

## Fișa de verificare a îndeplinirii standardelor minime naționale

**Nume: Hegyi      Prenume: Andreea - Cristina**  
**Grad științific: Cercetător științific grad I**

Anexa nr. 18. - COMISIA DE INGINERIA MEDIULUI  
O.M. 6129/2016 publicat în M.O., Partea I, Nr. 123 bis din 15.02.2017

### STANDARDE MINIMALE NECESARE ȘI OBLIGATORII PENTRU PROFESOR TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE - DEZVOLTARE

#### Se definesc:

**NT** = număr total de articole în reviste ISI

**FIC** = factor de impact cumulat (suma factorilor de impact al revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice)

**NP** = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)

**NC** = număr total de citări din baza SCOPUS sau ISI Web of Science, excluzându-se autocitările

#### Concurs de Profesor / CS I / Abilitare conducător doctorat

Standarde minime (cumulative):

|    | Criteriul        | Minimal | Realizat | Criteriu îndeplinit | Grad îndeplinire [%] |
|----|------------------|---------|----------|---------------------|----------------------|
| a) | NT               | 25      | 27.00    | DA                  | 108.0                |
| b) | NP               | 10      | 16.00    | DA                  | 160.0                |
|    | NP cu IF>1       | 6       | 15.00    | DA                  | 250.0                |
| c) | FIC <sup>1</sup> | 20      | 54.30    | DA                  | 271.5                |
| d) | NC               | 100     | 265.00   | DA                  | 265.0                |

<sup>1</sup> În acest caz în calculul FIC se ține cont de factorul de impact la momentul înscrierii la concursul pentru ocuparea unei poziții didactice. Brevetele naționale (FI = 1) și Brevetele internaționale (FI = 3) intră în calculul FIC de la punctul c)

CS I Dr. Ing. Andreea-Cristina Hegyi

**A. Activitatea de cercetare**

**1. Articole în reviste cotate ISI Web of Science (FIC=FI dacă autor principal, altfel FIC=FI/nr. autori)**

| Nr. Crt. | Autori                                                                                                             | Titlul, revista, vol, an, DOI                                                                                                                                                                                                                                          | Nr. Autori | FI an publicare | FI an evaluare (2025) | Autor principal (DA=1; NU=0) | FIC   |
|----------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|-----------------------|------------------------------|-------|
| 1        | Toader, T. P., Moldoveanu, M. I., Boca, D. M., Iștoan, R., Lupan, L. M., Bradu, A., Hegyi, A., Boga, A.            | Sustainable Investments in Construction: Cost-Benefit Analysis Between Rehabilitation and New Building in Romania. Buildings, 2025, 15(15), 2770, WOS:001549473100001                                                                                                  | 8          | 3.1             | 3.1                   | 0                            | 0.388 |
| 2        | Sur, I.M., Hegyi, A., Micle, V., Molnar, H., Gabor, T.                                                             | Remediation of soils polluted with metals by phytoextraction using Hordeum vulgare L.. Int. J. Environ. Sci. Technol. (2025). https://doi.org/10.1007/s13762-025-06566-3, WOS:001499197400001                                                                          | 5          | 3.4             | 3.4                   | 0                            | 0.680 |
| 3        | Chira, M., Lăzărescu, A. V., Hegyi, A.*, Vermesan, H., Csapai, A., Ionescu, B. A., Toader, T.P., Florean, C.       | Influence of Alkaline Activator Properties on Corrosion Mechanisms and Durability of Steel Reinforcement in Geopolymer Binders. Coatings, 2025, 15(6), 734. https://doi.org/10.3390/coatings15060734, WOS:001514746400001                                              | 8          | 2.8             | 2.8                   | 1                            | 2.800 |
| 4        | Florean, C. T., Chira, M., Vermesan, H., Gabor, T., Hegyi, A., Crișan, C. A., & Cămpian, C.                        | The Influence of Using Recycled Waste Aggregates and Adding TiO2 Nanoparticles on the Corrosion Resistance of Steel Reinforcement Embedded in Cementitious Composite., Materials, 2024, 17(16), 3895., https://doi.org/10.3390/ma17163895 WOS:001307141700001          | 7          | 3.2             | 3.2                   | 0                            | 0.457 |
| 5        | Florean, C. T., Csapai, A., Vermesan, H., Gabor, T., Hegyi, A.*, Stoian, V., Uriciu, W.A., Petcu, C., Cîmpan, M.   | Influence of the addition of TiO2 nanoparticles on the self-cleaning capacity of cementitious composites. Materials, 2024, 17(13), 3098. https://doi.org/10.3390/ma17133098 WOS:001266744700001                                                                        | 9          | 3.2             | 3.2                   | 1                            | 3.200 |
| 6        | Florean, C. T., Vermesan, H., Gabor, T., Neamtu, B. V., Thalmaier, G., Hegyi, A., Csapai, A., Lăzărescu, A. V.     | Influence of TiO2 nanoparticles on the physical, mechanical, and structural characteristics of cementitious composites with recycled aggregates. Materials, 2024, 17(9), 2014., https://doi.org/10.3390/ma17092014, WOS:001220519800001                                | 8          | 3.2             | 3.2                   | 0                            | 0.400 |
| 7        | Florean, C. T., Vermesan, H., Thalmaier, G., Neamtu, B. V., Gabor, T., Cămpian, C., Hegyi, A.*, Csapai, A.         | The influence of TiO2 nanoparticles on the physico-mechanical and structural characteristics of cementitious materials. Coatings, 2024, 14(2), 218 https://doi.org/10.3390/coatings14020218 WOS:001175240800001                                                        | 8          | 2.8             | 2.8                   | 1                            | 2.800 |
| 8        | Lăzărescu, A. V., Hegyi, A.*, Csapai, A., & Popa, F.                                                               | Influence of Different Aggregates on the Physico-Mechanical Performance of Alkali-Activated Geopolymer Composites Produced Using Romanian Fly Ash Materials, 2024, 17(2), 485. https://doi.org/10.3390/ma17020485 WOS:001151522600001                                  | 4          | 3.2             | 3.2                   | 1                            | 3.200 |
| 9        | Petcu, C., Dobrescu, C. F., Dragomir, C. S., Ciobanu, A. A., Lăzărescu, A. V., Hegyi, A.*                          | Thermophysical characteristics of clay for efficient rammed earth wall construction Materials, 2023, 16(17), 6015 https://doi.org/10.3390/ma16176015 WOS:001062375000001                                                                                               | 6          | 3.1             | 3.2                   | 1                            | 3.200 |
| 10       | Sur, I. M., Hegyi, A., Micle, V., Gabor, T., Lăzărescu, A. V.                                                      | Influence of the Extraction Solution on the Removal of Heavy Metals from Polluted Soils, Materials, 2023, 16(18), 6189. https://doi.org/10.3390/ma16186189 WOS:001074173400001                                                                                         | 5          | 3.1             | 3.2                   | 0                            | 0.640 |
| 11       | Petcu C.; Hegyi A.*; Stoian V.; Dragomir C.S.; Ciobanu A.A.; Lăzărescu A.-V.; Florean C.                           | Research on Thermal Insulation Performance and Impact on Indoor Air Quality of Cellulose-Based Thermal Insulation Materials. Materials, 2023, 16, 5458 https://doi.org/10.3390/ma16155458 WOS:001046252400001                                                          | 7          | 3.1             | 3.2                   | 1                            | 3.200 |
| 12       | Hegyi A., Petcu C., Ciobanu A. A., Calatan G., Bradu A.                                                            | Development of Clay-Composite Plasters Integrating Industrial Waste Materials, 2023, 16(14):4903 https://doi.org/10.3390/ma16144903 WOS:001039850900001                                                                                                                | 5          | 3.1             | 3.2                   | 1                            | 3.200 |
| 13       | Hegyi A., Lazarescu A.-V., Ciobanu A.A., Ionescu B.A., Grebenisan E., Chira M., Florean C., Vermesan H., Stoian V. | Study on the Possibilities of Developing Cementitious or Geopolymer Composite Materials with Specific Performances by Exploiting the Photocatalytic Properties of TiO2 Nanoparticles, Materials, 2023, 16, 3741 https://doi.org/10.3390/ma16103741 WOS:000997192300001 | 9          | 3.1             | 3.2                   | 1                            | 3.200 |
| 14       | Ionescu B.A., Chira M., Vermesan H., Hegyi A.*, Lăzărescu A.-V., Thalmaier G., Neamtu B.V., Gabor T., Sur I.M.     | Influence of Fe2O3, MgO and Molarity of NaOH Solution on the Mechanical Properties of Fly Ash-Based Geopolymers Materials, 2022, 15, 6965 https://doi.org/10.3390/ma15196965, WOS:000866898700001                                                                      | 9          | 3.4             | 3.2                   | 1                            | 3.200 |
| 15       | Mangau A.; Vermesan H.; Paduretu S.; Hegyi A.                                                                      | An Incurison into Actuality: Addressing the Precautionary Principle in the Context of the Circular Economy Sustainability, 2022, 14, 10090 https://doi.org/10.3390/su141610090 WOS:000845286800001                                                                     | 4          | 3.9             | 3.3                   | 0                            | 0.825 |
| 16       | Sur I.M.; Micle V.; Hegyi A.*; Lazarescu A.-V.                                                                     | Extraction of Metals from Polluted Soils by Bioleaching in Relation to Environmental Risk Assessment Materials, 2022, 15, 3973. https://doi.org/10.3390/ma15113973 WOS:000808976400001                                                                                 | 4          | 3.4             | 3.2                   | 1                            | 3.200 |
| 17       | Dénes T.-O., Iștoan R., Tămaș-Gavrea D.R., Manea D.L., Hegyi A.; Popa F., Vasile O.                                | Analysis of Sheep Wool-Based Composites for Building Insulation, Polymers 2022, 14, 2109, https://doi.org/10.3390/polym14102109 WOS:000801570300001                                                                                                                    | 7          | 5               | 4.9                   | 0                            | 0.700 |
| 18       | Hegyi A., Vermesan H., Lăzărescu A.-V., Petcu C., Bulacu C.                                                        | Thermal Insulation Mattresses Based on Textile Waste and Recycled Plastic Waste Fibres, Integrating Natural Fibres of Vegetable or Animal Origin Materials, 2022, 15(4): 1348L. WOS:000765075300001                                                                    | 5          | 3.4             | 3.2                   | 1                            | 3.200 |
| 19       | Mircea C.R.G., Toader T.P., Hegyi A., Ionescu B.A., Mircea A.                                                      | Early Age Sealing Capacity of Structural Mortar with Integral Crystalline Waterproofing Admixture Materials 2021, 14, 4951, https://doi.org/10.3390/ma14174951 WOS:000694381700001                                                                                     | 5          | 3.748           | 3.2                   | 0                            | 0.640 |
| 20       | Hegyi A.; Grebenisan E.; Lazarescu A.-V.; Stoian V.; Szilagyi H.                                                   | Influence of TiO2 Nanoparticles on the Resistance of Cementitious Composite Materials to the Action of Fungal Species Materials, 2021, 14, 4442, https://doi.org/10.3390/ma14164442 WOS:000690544400001                                                                | 5          | 3.748           | 3.2                   | 1                            | 3.200 |

|            |        |
|------------|--------|
| REALIZAT   |        |
| NT         | 27.00  |
| FIC        | 54.30  |
| NP         | 16.00  |
| NP cu FI>1 | 15.00  |
| NC         | 265.00 |

|    |                                                                                     |                                                                                                                                                                                                                                                                                             |   |       |     |   |       |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|-----|---|-------|
| 21 | Hegyi A., Bulacu C., Szilagyi H., Lăzărescu A.-V., Meijă V., Vizureanu P., Sandu M. | Improving Indoor Air Quality by Using Sheep Wool Thermal Insulation<br><b>Materials</b> , 2021, 14, 2443, <a href="https://doi.org/10.3390/ma14092443">https://doi.org/10.3390/ma14092443</a><br>WOS:000650540300001                                                                        | 7 | 3.748 | 3.2 | 1 | 3.200 |
| 22 | Hegyi A., Lăzărescu A.V., Szilagyi H., Grebenisan E., Goia J., Mircea A.            | Influence of TiO2 Nanoparticles on the Resistance of Cementitious Composite Materials to the Action of Bacteria<br><b>Materials</b> , 2021, 14, 1074.<br><a href="https://doi.org/10.3390/ma14051074">https://doi.org/10.3390/ma14051074</a><br>WOS:000628368200001                         | 6 | 3.748 | 3.2 | 1 | 3.200 |
| 23 | Nicula L. M., Corbu O., Iliescu M., Sandu A. V., Hegyi A.                           | Study on the Durability of Road Concrete with Blast Furnace Slag Affected by the Corrosion Initiated by Chloride<br><b>Advances in Civil Engineering</b> , 2021, 8851005,<br><a href="https://doi.org/10.1155/2021/8851005">https://doi.org/10.1155/2021/8851005</a><br>WOS:000613071600001 | 5 | 1.8   | 1.6 | 0 | 0.320 |
| 24 | Hegyi A., Szilagyi H., Grebenisan E., Sandu A. V., Lăzărescu A. V., Romila C.       | Influence of TiO(2) Nanoparticles Addition on the Hydrophilicity of Cementitious Composites Surfaces<br><b>Applied Sciences</b> , 2021, 10:4501-4515;<br><a href="https://doi.org/10.3390/app10134501">https://doi.org/10.3390/app10134501</a> , WOS:000550340700001                        | 6 | 2.838 | 2.5 | 1 | 2.500 |
| 25 | Hegyi A., Dico C., Szilagyi H.                                                      | Eco-innovative thermal insulation panels, based on organic fibre composite material<br><b>Romanian Journal of Materials</b> , 2020, 50 (2):205 – 211<br>WOS:000538152900007                                                                                                                 | 3 | 0.56  | 0.5 | 1 | 0.500 |
| 26 | Rus V., Vermeşan H., Hegyi A., Tiuc A. E.                                           | Electrochemical impedance spectroscopy study - evolution modeling of corrosion products layer formed at hot dip galvanized rebar–fresh concrete interface<br><b>Romanian Journal of Materials</b> , 2016, 46(2): 196-203<br>WOS:000378101800008                                             | 4 | 0.56  | 0.5 | 0 | 0.125 |
| 27 | Rus V., Hegyi A., Vermeşan H., Tiuc A.                                              | Kinetics of the corrosion process of hot dip galvanized steel reinforcement in fresh concrete<br><b>Studia UBB Chemia</b> , 2015, LX/2: 409-419<br>WOS:000369161800038                                                                                                                      | 4 | 0.224 | 0.5 | 0 | 0.125 |

## 2. Brevete de inventie

### Internationale (FIC=3 pentru fiecare brevet)

| Nr. Crt. | Brevet (Autori, nume, indicativ) | Nr. Autori  | FIC      |
|----------|----------------------------------|-------------|----------|
| 1        |                                  |             |          |
|          |                                  | <b>FIC2</b> | <b>0</b> |

### Nationale (FIC=1 pentru fiecare brevet)

| Nr. Crt. | Brevet (Autori, nume indicativ)                                                                                                                                                                       | Nr. Autori | FIC |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| 1        | Călătan Gabriela Adela, <b>Hegyi Andreea Cristina</b> , Szilagyi Henriette, Meijă Vasile, "SISTEM DE CONSTRUCȚIE A PEREȚILOR PE BAZĂ DE ARGILĂ NEARSĂ" - RO133842 (B1)/2024                           | 4          | 1   |
| 2        | <b>Hegyi Andreea Cristina</b> , Szilagyi Henriette, Dico Carmen, Meijă Vasile, "PANOURI TERMOIZOLANTE COMPOZITE CU MIEZ DE LÂNĂ DE OAIIE, METODE DE OBTINERE ȘI PUNERE ÎN OPERĂ" - RO134241 (B1)/2024 | 4          | 1   |

**FIC3** **2**

**16**  
**NP** **52.300**  
**FIC 1**

| B. Căări în reviste ISI Thomson Reuters sau SCOPUS (se exclud autocitările tututor autorilor)                                                                                                                                     |                                                                                                                                                                                                                       |                                                                                                                             |                                                                                                                                                                       |                                                                                           |                 |      |     |             |                                                                                                                       |                                                                                                                   |                     |                                                |                            | Web of ScienceWOS |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------|------|-----|-------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------|----------------------------|-------------------|--|
| 1. Articole în reviste indexate ISI Thomson Reuters / ISI Proceedings (vizibile Charivate Web of ScienceWOS), citate de articole în reviste indexate ISI Thomson Reuters / ISI Proceedings (vizibile Charivate Web of ScienceWOS) |                                                                                                                                                                                                                       |                                                                                                                             |                                                                                                                                                                       |                                                                                           |                 |      |     |             |                                                                                                                       |                                                                                                                   |                     |                                                |                            |                   |  |
| Nr. crt.                                                                                                                                                                                                                          | Articol citat (autorii, titlul, revista, vol., nr., an, pag., DOI, WOS)                                                                                                                                               | Articol artical în care este citat lucrarea (autorii, titlul, revista, vol., nr., an, pag.)                                 |                                                                                                                                                                       |                                                                                           |                 |      |     |             |                                                                                                                       |                                                                                                                   |                     | Tip citare artical citat - artical care citază | Baza de date în care apare |                   |  |
|                                                                                                                                                                                                                                   |                                                                                                                                                                                                                       | Autori                                                                                                                      | Titlul                                                                                                                                                                | Revista                                                                                   | Anul publicării | Vol. | Nr. | Pag. încep. | Pag. Final                                                                                                            | DOI                                                                                                               | WOS                 |                                                |                            |                   |  |
| 1                                                                                                                                                                                                                                 | Calatun, G., Hępiś, A., Dico, C., & Mrovec, C. (2016). Determining the optimum addition of vegetable materials in adobe bricks. Procedia technology, 22, 259-265. DOI10.1016/j.procy.2016.01.077. WOS:000383949300037 | Zhang, WY; Huang, YL; Lin, C; Xie, BL                                                                                       | Mechanical and Thermal Properties of Lignin Fiber-Reinforced Loos Subjected to Freeze-Thaw Cycles                                                                     | JOURNAL OF COLD REGIONS ENGINEERING                                                       | 2025            | 39   | 3   |             | <a href="http://dx.doi.org/10.1061/JCRGEI.CRENG.956">http://dx.doi.org/10.1061/JCRGEI.CRENG.956</a>                   | WOS:001528913700015                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 2                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       | Balkis, AP; Ahmad, A                                                                                                        | Improving sustainability with plastic waste in buildings: cost comparison in semi-arid regions                                                                        | PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-WASTE AND RESOURCE MANAGEMENT           | 2025            |      |     |             | <a href="http://dx.doi.org/10.1680/j.warm.24.00040">http://dx.doi.org/10.1680/j.warm.24.00040</a>                     | WOS:001481494900001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 3                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       | Bui, T; Dominigs, N; Le, A                                                                                                  | Factors Affecting the Selection of Sustainable Construction Materials: A Study in New Zealand                                                                         | BUILDINGS                                                                                 | 2025            | 15   | 5   |             | <a href="http://dx.doi.org/10.3390/buildings15050834">http://dx.doi.org/10.3390/buildings15050834</a>                 | WOS:001442750100001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 4                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       | Endo, Y; Waki, Y; Geda, T                                                                                                   | Experimental and numerical evaluation of friction behaviour between hardwood timber and brick masonry in earth mortar: cyclic triplet shear test and pull-out test    | DISCOVER APPLIED SCIENCES                                                                 | 2025            | 7    | 3   |             | <a href="http://dx.doi.org/10.1007/s42452-025-06582-5">http://dx.doi.org/10.1007/s42452-025-06582-5</a>               | WOS:001435131000004                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 5                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       | Bentagui, H; Rabehi, M; Kherifane, S; Nahoul, TA; Rabehi, A; Guermoui, M; Alhusain, AA; Khalaga, DS; Eid, MM; El-Kenawy, EM | Assessment of compressive strength of co-concrete reinforced using machine learning tools                                                                             | SCIENTIFIC REPORTS                                                                        | 2025            | 15   | 1   |             | <a href="http://dx.doi.org/10.1038/s41598-025-09530-y">http://dx.doi.org/10.1038/s41598-025-09530-y</a>               | WOS:001420046500035                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 6                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       | Levascher, D; Sarinay, A; Ndiabura, D; Znamou, H; Leblanc, N; Shimpou, T                                                    | Sediment-Based Unfired Bricks Reinforced with Waste Flat Fibers: Implementation, Physical Aspects and Kinetics of Air Drying-Part I                                   | APPLIED SCIENCES-BASEL                                                                    | 2025            | 15   | 2   |             | <a href="http://dx.doi.org/10.3390/app15020909">http://dx.doi.org/10.3390/app15020909</a>                             | WOS:001403999000001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 7                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       | Ramful, R                                                                                                                   | Mechanical performance and durability attributes of biodegradable natural fiber reinforced composites-a review                                                        | JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ENGINEERING                                     | 2024            | 19   | 1   |             | <a href="http://dx.doi.org/10.1186/s40712-024-00198-0">http://dx.doi.org/10.1186/s40712-024-00198-0</a>               | WOS:001383337300001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 8                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       | Manor, P; Letelier, V; Bustamante, M; De Notti, A; Genetel, O                                                               | Stabilization of extruded earth-based materials by adding hydrated cement powder from recycled concrete                                                               | JOURNAL OF BUILDING ENGINEERING                                                           | 2024            |      | 98  |             | <a href="http://dx.doi.org/10.1016/j.jsbe.2024.111260">http://dx.doi.org/10.1016/j.jsbe.2024.111260</a>               | WOS:001355994000001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 9                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       | Deng, F; Lu, JG; Wan, XS; Liu, BS; Zhang, BL; Fu, H                                                                         | Mitigating frost heave of a soil stabilized with sial fiber exposed to freeze-thaw cycles                                                                             | GEOTEXTILES AND GEOMEMBRANES                                                              | 2025            | 53   | 1   | 394         | 404                                                                                                                   | <a href="http://dx.doi.org/10.1016/j.geotexmem.2024.10.005">http://dx.doi.org/10.1016/j.geotexmem.2024.10.005</a> | WOS:001362978000001 | ISI-ISI                                        | WOS                        |                   |  |
| 10                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Kumman, TS; Sofi, A                                                                                                         | A review of mechanical properties of clay adobe bricks stabilized with Agro-wastes and varied water-clay proportions                                                  | INNOVATIVE INFRASTRUCTURE SOLUTIONS                                                       | 2024            | 9    | 9   |             | <a href="http://dx.doi.org/10.1007/s41062-024-01656-6">http://dx.doi.org/10.1007/s41062-024-01656-6</a>               | WOS:001283980000001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 11                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Renzo, R; Scatolino, MV; Teixeira, JN; Silva, DW; Matos, AC; Corria, AAR; Guimaraes, JB Jr; Mares, LC; Mendes, LM           | Formation of Adobe-Sealing System Composites from Tailings of the Collapse of the Fundão Dam and Saurama Dam                                                          | WASTE AND BIOMASS VALORIZATION                                                            | 2025            | 16   | 3   | 1175        | 1188                                                                                                                  | <a href="http://dx.doi.org/10.1007/s12649-024-02082-2">http://dx.doi.org/10.1007/s12649-024-02082-2</a>           | WOS:001296598400001 | ISI-ISI                                        | WOS                        |                   |  |
| 12                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Sembeh, YAA; Ouedraogo, M; Douani, A; Sanou, I; Zagre, WKJE; Aubert, JE; Gonnin, M; Millage, Y                              | Optimization of kenaf fiber content for the improvement of the thermophysical and mechanical properties of adobe                                                      | CONSTRUCTION AND BUILDING MATERIALS                                                       | 2024            | 431  |     |             | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2024.136469">http://dx.doi.org/10.1016/j.conbuildmat.2024.136469</a> | WOS:001242102500001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 13                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Voisine, V; Kirzinevic, O; Albedriens-Pleaske, R; Vasilunskiene, D; Urbanavicius, J; Vilkauskaitė, R                        | The Effect of Organic Lake Sediments (Sargol) on the Properties and Biological Resistance of Unfired Clay Bricks                                                      | SUSTAINABILITY                                                                            | 2024            | 16   | 6   |             | <a href="http://dx.doi.org/10.3390/su16062327">http://dx.doi.org/10.3390/su16062327</a>                               | WOS:001192459100001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 14                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Ouarda, I; Ferdous, B; Karim, G                                                                                             | Influence of Date Palm Waste Aggregates on the Mechanical Strengths and Hygroscopicity Behavior of Earth-Based Composites                                             | REVUE DES COMPOSITES ET DES MATERIAUX AVANCES-JOURNAL OF COMPOSITE AND ADVANCED MATERIALS | 2024            | 34   | 1   | 33          | 41                                                                                                                    | <a href="http://dx.doi.org/10.18280/rcoma.340105">http://dx.doi.org/10.18280/rcoma.340105</a>                     | WOS:001179466200005 | ISI-ISI                                        | WOS                        |                   |  |
| 15                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Comes, CD; Delucis, RD; Theisen, KM                                                                                         | Valorization of piassava fiber by its incorporation in adobe bricks                                                                                                   | ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS                                                  | 2024            | 96   |     |             | <a href="http://dx.doi.org/10.1590/001-3765202420240210">http://dx.doi.org/10.1590/001-3765202420240210</a>           | WOS:001380807600001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 16                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Tounsadi, H; Bellasouchi, M; Idribi, N; Taleb, M; Echdoh, B; Akkai, F; Barka, N; Rins, Z                                    | Review About Plant Fibers and Their Composites in Morocco: Description and Utilization in Construction Materials                                                      | PROCEEDINGS OF THE 3RD INTERNATIONAL EUROMAGH CONFERENCE 2020                             | 2024            | 43   |     | 47          | 62                                                                                                                    | <a href="http://dx.doi.org/10.1007/978-981-97-2000-2_7">http://dx.doi.org/10.1007/978-981-97-2000-2_7</a>         | WOS:001295254300007 | ISI-ISI                                        | WOS                        |                   |  |
| 17                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Hussain, M; Saouti, I; Levascher, D; Maigre-Djerm, I; Razakamantsoa, A; Leblanc, N; Znamou, H                               | Production of Waste Fiber-Reinforced Raw Earth Specimens by Controlled Compaction                                                                                     | PROCEEDINGS OF THE 3RD INTERNATIONAL EUROMAGH CONFERENCE 2020                             | 2024            | 43   |     | 248         | 260                                                                                                                   | <a href="http://dx.doi.org/10.1007/978-981-97-2000-2_209">http://dx.doi.org/10.1007/978-981-97-2000-2_209</a>     | WOS:001295254300029 | ISI-ISI                                        | WOS                        |                   |  |
| 18                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Saini, K; Matsagar, VA; Kodur, VR                                                                                           | Recent advances in the use of natural fibers in civil engineering structures                                                                                          | CONSTRUCTION AND BUILDING MATERIALS                                                       | 2024            | 411  |     |             | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2023.134564">http://dx.doi.org/10.1016/j.conbuildmat.2023.134564</a> | WOS:001134556000001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 19                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Paul, S; Islam, MS; Hossain, MI                                                                                             | Suitability of Veliver straw fibers in improving the engineering characteristics of compressed earth blocks                                                           | CONSTRUCTION AND BUILDING MATERIALS                                                       | 2023            | 409  |     |             | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2023.134224">http://dx.doi.org/10.1016/j.conbuildmat.2023.134224</a> | WOS:001122504700001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 20                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Braiek, A; Briki, C; Karkri, M; Sattar, A; Jermi, A                                                                         | Thermo-physical and mechanical performances of a new lightweight construction material made with clay and Pseudotsuga-Ocmeica fibers                                  | CASE STUDIES IN CONSTRUCTION MATERIALS                                                    | 2023            | 19   |     |             | <a href="http://dx.doi.org/10.1016/j.cscm.2023.025999">http://dx.doi.org/10.1016/j.cscm.2023.025999</a>               | WOS:001102176600001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 21                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Himouri, K; Harouine, A; Guettali, L                                                                                        | Compressive Creep and Ultrasonic Characterization of Adobe Bricks Stabilized with Quicklime, Portland Cement, and Date Palm Fibers                                    | INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE                                           | 2025            | 19   | 1   | 50          | 69                                                                                                                    | <a href="http://dx.doi.org/10.1080/15583058.2023.2262954">http://dx.doi.org/10.1080/15583058.2023.2262954</a>     | WOS:001067648100001 | ISI-ISI                                        | WOS                        |                   |  |
| 22                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Kumman, TS; Sofi, A                                                                                                         | Progression of bio-modified adobe with derivatives of cassava periderm and clay brick waste by experimental and probabilistic prediction models                       | CONSTRUCTION AND BUILDING MATERIALS                                                       | 2023            | 399  |     |             | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2023.132535">http://dx.doi.org/10.1016/j.conbuildmat.2023.132535</a> | WOS:001047479500001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 23                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | El Hammouti, A; Channouf, S; Charai, M; Horma, O; Mini, H; Merhab, A; Karkri, M; Tankari, MA                                | Resource deposit, characterization and energy saving potential of olive pomace as a promising aggregate for energy efficient earth bricks in eastern Morocco          | CONSTRUCTION AND BUILDING MATERIALS                                                       | 2023            | 393  |     |             | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2023.131989">http://dx.doi.org/10.1016/j.conbuildmat.2023.131989</a> | WOS:001022496300001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 24                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | El Hammouti, A; Charai, M; Channouf, S; Horma, O; Merhab, A; Karkri, M; Tankari, MA                                         | Application analysis and environmental impact of straw reinforced gypsum plaster for improving the energy efficiency in buildings in the six climate zones of Morocco | JOURNAL OF BUILDING ENGINEERING                                                           | 2023            | 74   |     |             | <a href="http://dx.doi.org/10.1016/j.jsbe.2023.106829">http://dx.doi.org/10.1016/j.jsbe.2023.106829</a>               | WOS:001021838800001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 25                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Chihab, Y; Laroussi, N; Gannou, M                                                                                           | Thermal performance and energy efficiency of the composite clay and hemp fibers                                                                                       | JOURNAL OF BUILDING ENGINEERING                                                           | 2023            | 73   |     |             | <a href="http://dx.doi.org/10.1016/j.jsbe.2023.106810">http://dx.doi.org/10.1016/j.jsbe.2023.106810</a>               | WOS:001012770100001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 26                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Trambitski, Y; Kirzinevic, O; Kirzinevic, V                                                                                 | Effect of Retrograded Starch Hydrogel on the Hygroscopic and Durability Properties of Clay Composites                                                                 | MATERIALS                                                                                 | 2022            | 15   | 24  |             | <a href="http://dx.doi.org/10.3390/ma15248815">http://dx.doi.org/10.3390/ma15248815</a>                               | WOS:0009020602100001                                                                                              | ISI-ISI             | WOS                                            |                            |                   |  |
| 27                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Paul, S; Islam, MS; Elahi, TE                                                                                               | Comparative effectiveness of fibers in enhancing engineering properties of Earth as a building material: A review                                                     | CONSTRUCTION AND BUILDING MATERIALS                                                       | 2022            | 332  |     |             | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2022.127566">http://dx.doi.org/10.1016/j.conbuildmat.2022.127566</a> | WOS:000793127800002                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 28                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Peraza-Gonzalez, J; Ross-Sobemini, CR; Verriet, AJED; Rodriguez-Lavado, J                                                   | Geomechanical Characterization of Experimental Mud Bricks From La Joya Archaeological Site: Effect of the Addition of Additives on Their Mechanical Properties        | INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE                                           | 2023            | 17   | 9   | 1524        | 1541                                                                                                                  | <a href="http://dx.doi.org/10.1080/15583058.2022.2043953">http://dx.doi.org/10.1080/15583058.2022.2043953</a>     | WOS:000762180500001 | ISI-ISI                                        | WOS                        |                   |  |
| 29                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Hussain, M; Levascher, D; Leblanc, N; Znamou, H; Djerm-Maigre, I; Razakamantsoa, A; Saouti, I                               | Reuse of harbour and river dredged sediments in adobe bricks                                                                                                          | CLEANER MATERIALS                                                                         | 2022            | 3    |     |             | <a href="http://dx.doi.org/10.1016/j.clema.2022.100046">http://dx.doi.org/10.1016/j.clema.2022.100046</a>             | WOS:001343530500005                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 30                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Eslami, A; Mohammadi, H; Barakati, HM                                                                                       | Palm fiber as a natural reinforcement for improving the properties of traditional adobe bricks                                                                        | CONSTRUCTION AND BUILDING MATERIALS                                                       | 2022            | 325  |     |             | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2021.125013">http://dx.doi.org/10.1016/j.conbuildmat.2021.125013</a> | WOS:000765306400001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 31                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Hussain, M; Levascher, D; Saouti, I; Leblanc, N; Znamou, H; Djerm-Maigre, I; Razakamantsoa, A                               | Implementation on a Preparation and Controlled Compaction Procedure for Waste-Fiber-Reinforced Raw Earth Samples                                                      | JOURNAL OF COMPOSITES SCIENCE                                                             | 2022            | 6    | 1   |             | <a href="http://dx.doi.org/10.3390/csa010003">http://dx.doi.org/10.3390/csa010003</a>                                 | WOS:000746973900001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 32                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Yun, KK; Hossain, MS; Han, S; Semblath, C                                                                                   | Rheological, mechanical properties, and statistical significance analysis of shotcrete with various natural fibers and mixing ratios                                  | CASE STUDIES IN CONSTRUCTION MATERIALS                                                    | 2022            | 16   |     |             | <a href="http://dx.doi.org/10.1016/j.cscm.2021.000833">http://dx.doi.org/10.1016/j.cscm.2021.000833</a>               | WOS:000740934300006                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 33                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Mauricio, AC; Grieseler, R; Heller, AR; Kelley, AR; Rumiache, F; Sandewies, DH; Viveen, W                                   | The earliest adobe monumental architecture in the Americas                                                                                                            | PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA           | 2021            | 118  | 48  |             | <a href="http://dx.doi.org/10.1073/pnas.2102941118">http://dx.doi.org/10.1073/pnas.2102941118</a>                     | WOS:000723881800008                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 34                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Babi, C; Kidmo, DK; Tom, A; Mvondo, RRN; Kola, B; Dionysius, N                                                              | Effect of neem (Azadirachta indica) fibers on mechanical, thermal and durability properties of adobe bricks                                                           | ENERGY REPORTS                                                                            | 2021            | 7    |     | 686         | 698                                                                                                                   | <a href="http://dx.doi.org/10.1016/j.egyr.2021.07.085">http://dx.doi.org/10.1016/j.egyr.2021.07.085</a>           | WOS:000727770800007 | ISI-ISI                                        | WOS                        |                   |  |
| 35                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Pedergama, M; Elias-Ozkan, ST                                                                                               | Impact of various sands and fibres on the physical and mechanical properties of earth mortars for plasters and renders                                                | CONSTRUCTION AND BUILDING MATERIALS                                                       | 2021            | 308  |     |             | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2021.125013">http://dx.doi.org/10.1016/j.conbuildmat.2021.125013</a> | WOS:000709745300001                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |
| 36                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Zaidi, A; Ikenmouen, O; Tsallab, B; Guattala, A                                                                             | Mechanical and durability properties of adobe blocks filled with date palm wastes                                                                                     | WORLD JOURNAL OF ENGINEERING                                                              | 2022            | 19   | 4   | 532         | 545                                                                                                                   | <a href="http://dx.doi.org/10.1108/WJE-02-2021-0094">http://dx.doi.org/10.1108/WJE-02-2021-0094</a>               | WOS:000675422500001 | ISI-ISI                                        | WOS                        |                   |  |
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| 38                                                                                                                                                                                                                                |                                                                                                                                                                                                                       | Bertelsen, IMG; Belmonte, LJ; Fischer, G; Otsson, LM                                                                        | Influence of synthetic waste fibres on drying shrinkage cracking and mechanical properties of adobe materials                                                         | CONSTRUCTION AND BUILDING MATERIALS                                                       | 2021            | 286  |     |             | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2021.122738">http://dx.doi.org/10.1016/j.conbuildmat.2021.122738</a> | WOS:000684992300003                                                                                               | ISI-ISI             | WOS                                            |                            |                   |  |

|    |                                                                                                                                                                                                                                               |                                                                                                                                                                                                      |                                                                                                                        |      |      |     |     |     |  |                                                                                                                       |                      |         |     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------|------|-----|-----|-----|--|-----------------------------------------------------------------------------------------------------------------------|----------------------|---------|-----|
| 39 | Muñoz, P.; Letellier, V.; Muñoz, L.; Zamora, D                                                                                                                                                                                                | Assessment of technological performance of extruded earth block by adding bottom biomass adobe                                                                                                       | JOURNAL OF BUILDING ENGINEERING                                                                                        | 2021 | 39   |     |     |     |  | <a href="http://dx.doi.org/10.1016/j.jobe.2021.102778">http://dx.doi.org/10.1016/j.jobe.2021.102778</a>               | WOS-000656541300001  | ISI-ISI | WOS |
| 40 | Cárdenas-Haro, X.; Todisco, L.; León, J                                                                                                                                                                                                       | Database with compression and bending tests on unbaked earth specimens and comparisons with international code provisions                                                                            | CONSTRUCTION AND BUILDING MATERIALS                                                                                    | 2021 | 276  |     |     |     |  | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2020.122232">http://dx.doi.org/10.1016/j.conbuildmat.2020.122232</a> | WOS-000634522000052  | ISI-ISI | WOS |
| 41 | Cuervo, LSR                                                                                                                                                                                                                                   | Adobe bricks with sugarcane molasses and gypsum to enhance compressive strength in the city of Cúcuta, Colombia                                                                                      | REVISTA DE LA CONSTRUCCION                                                                                             | 2020 | 19   | 3   | 358 | 365 |  | <a href="http://dx.doi.org/10.7764/RDLC.19.3.358">http://dx.doi.org/10.7764/RDLC.19.3.358</a>                         | WOS-000610850600015  | ISI-ISI | WOS |
| 42 | Babi, C.; Kidanu, DK; Torn, A.; Mwendo, RRM; Bouin, RHE; Dimpompe, N                                                                                                                                                                          | Thermomechanical characterization and durability of adobe reinforced with millet waste fibers (sorghum biocler)                                                                                      | CASE STUDIES IN CONSTRUCTION MATERIALS                                                                                 | 2020 | 13   |     |     |     |  | <a href="http://dx.doi.org/10.1016/j.cscm.2020.e00422">http://dx.doi.org/10.1016/j.cscm.2020.e00422</a>               | WOS-000602540100061  | ISI-ISI | WOS |
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| 44 | Hadij, F.; Ihaddadene, N.; Ihaddadene, R.; Belgas, A.; Charade, A.; Lagoutas, PO                                                                                                                                                              | Thermal conductivity of two kinds of earthen building materials formerly used in Algeria                                                                                                             | JOURNAL OF BUILDING ENGINEERING                                                                                        | 2020 | 32   |     |     |     |  | <a href="http://dx.doi.org/10.1016/j.jobe.2020.101823">http://dx.doi.org/10.1016/j.jobe.2020.101823</a>               | WOS-000588052000253  | ISI-ISI | WOS |
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| 46 | Salih, MM; Osofero, AI; Inhabli, MS                                                                                                                                                                                                           | Critical review of recent development in fibre reinforced adobe bricks for sustainable construction                                                                                                  | FRONTIERS OF STRUCTURAL AND CIVIL ENGINEERING                                                                          | 2020 | 14   | 4   | 839 | 854 |  | <a href="http://dx.doi.org/10.1007/s11709-020-0630-7">http://dx.doi.org/10.1007/s11709-020-0630-7</a>                 | WOS-00055522400001   | ISI-ISI | WOS |
| 47 | Salih, MM; Osofero, AI; Inhabli, MS                                                                                                                                                                                                           | Constitutive models for fibre reinforced soil bricks                                                                                                                                                 | CONSTRUCTION AND BUILDING MATERIALS                                                                                    | 2020 | 240  |     |     |     |  | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2019.117806">http://dx.doi.org/10.1016/j.conbuildmat.2019.117806</a> | WOS-000527746200005  | ISI-ISI | WOS |
| 48 | Osakamash, M; El Ashary, K; Manour, M; Laaroussi, N; Garum, M                                                                                                                                                                                 | Thermal study of clay bricks reinforced by sisal-fibers used in construction in south of Morocco                                                                                                     | ENERGY REPORTS                                                                                                         | 2020 | 6    |     | 81  | 88  |  | <a href="http://dx.doi.org/10.1016/j.egyr.2019.11.045">http://dx.doi.org/10.1016/j.egyr.2019.11.045</a>               | WOS-000518454700012  | ISI-ISI | WOS |
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| 52 | Costa, C.; Cerequeira, A.; Rocha, F.; Veloso, A                                                                                                                                                                                               | The sustainability of adobe construction: past to future                                                                                                                                             | INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE                                                                        | 2019 | 13   | 5   | 639 | 647 |  | <a href="http://dx.doi.org/10.1080/15583058.2018.1459954">http://dx.doi.org/10.1080/15583058.2018.1459954</a>         | WOS-000407535890003  | ISI-ISI | WOS |
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| 72 | Vijelis, S.; Vaitekus, S.; Skulniks, V.; Kreminas, A.; Kairiavė, A                                                                                                                                                                            | Performance Evaluation of Thermal Insulation Materials from Sheep's Wool and Hemp Fibers                                                                                                             | MATERIALS                                                                                                              | 2024 | 17   | 13  |     |     |  | <a href="http://dx.doi.org/10.3390/ma17133339">http://dx.doi.org/10.3390/ma17133339</a>                               | WOS-001269797200001  | ISI-ISI | WOS |
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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------|-----|-------|------|-------------------------------------------------------------------------------------------------------------------|---------------------|---------|-----|
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| 84  |                                                                                                                                                                                                                                                                                                                    | Finkbeiner, J; Becker, A; Saha, G; Gassmann, M; Cucurachi, S; Tukker, A; Gries, T                          | Recycling processes of polyesters containing textile waste-A review                                                                                                                | RESOURCES CONSERVATION AND RECYCLING          | 2025 | 219 |       |      | <a href="http://dx.doi.org/10.1016/j.resconrec.2025.108266">http://dx.doi.org/10.1016/j.resconrec.2025.108266</a> | WOS:001459141500001 | ISI-ISI | WOS |
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| 114 |                                                                                                                                                                                                                                                                                                                    | Laksta, I; Vana, I; Blumberg, D                                                                            | Development of a Mycelium-Based Thermal Insulation Material                                                                                                                        | ENVIRONMENTAL AND CLIMATE TECHNOLOGIES        | 2025 | 29  | 1     | 201  | <a href="http://dx.doi.org/10.2478/energ-2025-0014">http://dx.doi.org/10.2478/energ-2025-0014</a>                 | WOS:001504116500002 | ISI-ISI | WOS |
| 115 |                                                                                                                                                                                                                                                                                                                    | Ali, A; Issa, A; Elshar, A                                                                                 | A Comprehensive Review and Recent Trends in Thermal Insulation Materials for Energy Conservation in Buildings                                                                      | SUSTAINABILITY                                | 2024 | 16  | 20    |      | <a href="http://dx.doi.org/10.3390/su16208782">http://dx.doi.org/10.3390/su16208782</a>                           | WOS:001341695100001 | ISI-ISI | WOS |
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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|------|----|-----|-----|--|-----------------------------------------------------------------------------------------------------------------------|-----------------------|---------|-----|
| 124 | Sereb, YAA; Ouedraogo, M; Doum, A; Samu, I; Zagre, WKPE; Aubert, JE; Gounna, M; Millogo, Y                                                                                                                                                                                                        | Optimization of kenaf fiber content for the improvement of the thermophysical and mechanical properties of adobes                                                    | CONSTRUCTION AND BUILDING MATERIALS                                               | 2024 | 431  |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2024.136466">http://dx.doi.org/10.1016/j.conbuildmat.2024.136466</a> | WOS:001242102500001   | ISI-ISI | WOS |
| 125 | Murillo, M; Sánchez, A; Gil, A; Araya-Letelier, G; Barboza-García, C; Silva, YF                                                                                                                                                                                                                   | Use of animal fiber-reinforcement in construction materials: A review                                                                                                | CASE STUDIES IN CONSTRUCTION MATERIALS                                            | 2024 | 20   |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.cscm.2023.02812">http://dx.doi.org/10.1016/j.cscm.2023.02812</a>                 | WOS:001149611400001   | ISI-ISI | WOS |
| 126 | Brito, MR; Marvila, MT; Lishane, JAT Jr; de Azevedo, ARG                                                                                                                                                                                                                                          | Evaluation of the Properties of Adobe Blocks with Clay and Manure                                                                                                    | BUILDINGS                                                                         | 2023 | 13   | 3  |     |     |  | <a href="http://dx.doi.org/10.3390/buid13030657">http://dx.doi.org/10.3390/buid13030657</a>                           | WOS:000957417100001   | ISI-ISI | WOS |
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| 128 | Bassoud, A; Khelafi, H; Mokhtari, AM; Bada, A                                                                                                                                                                                                                                                     | Evaluation of summer thermal comfort in arid and desert areas. Case study: Old adobe building in Adrar (South of Algeria)                                            | BUILDING AND ENVIRONMENT                                                          | 2021 | 205  |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.buildenv.2021.108140">http://dx.doi.org/10.1016/j.buildenv.2021.108140</a>       | WOS:000704043800003   | ISI-ISI | WOS |
| 129 | Himouri, K; Hamouine, A; Gouttali, L                                                                                                                                                                                                                                                              | Effects of Portland Cement and Quicklime on Physical and Mechanical Characteristics of Earth Concrete                                                                | JORDAN JOURNAL OF CIVIL ENGINEERING                                               | 2021 | 15   | 4  | 597 | 610 |  |                                                                                                                       | WOS:000703697900008   | ISI-ISI | WOS |
| 130 | Araya-Letelier, G; Concha-Riedel, J; Antico, FC; Sandoval, C                                                                                                                                                                                                                                      | Experimental mechanical-damage assessment of earthen mixes reinforced with micro polypropylene fibers                                                                | CONSTRUCTION AND BUILDING MATERIALS                                               | 2019 | 198  |    | 763 | 776 |  | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2018.11.261">http://dx.doi.org/10.1016/j.conbuildmat.2018.11.261</a> | WOS:000457952200066   | ISI-ISI | WOS |
| 131 | Balog, AA; Cobiran, N; Thalmier, G; Constantinescu, H; Veinea, M                                                                                                                                                                                                                                  | Psyllium Seeds Used as Pore Forming Agent in Clay Bricks                                                                                                             | 12TH INTERNATIONAL CONFERENCE INTERDISCIPLINARITY IN ENGINEERING (INTER-ENG 2018) | 2019 | 32   |    | 242 | 247 |  | <a href="http://dx.doi.org/10.1016/j.promfg.2019.02.209">http://dx.doi.org/10.1016/j.promfg.2019.02.209</a>           | WOS:000471295800035   | ISI-ISI | WOS |
| 132 | Araya-Letelier, G; Concha-Riedel, J; Antico, FC; Valdes, C; Caceres, G                                                                                                                                                                                                                            | Influence of natural fiber dosage and length on adobe mixes damage-mechanical behavior                                                                               | CONSTRUCTION AND BUILDING MATERIALS                                               | 2018 | 174  |    | 645 | 655 |  | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2018.04.151">http://dx.doi.org/10.1016/j.conbuildmat.2018.04.151</a> | WOS:000413656300061   | ISI-ISI | WOS |
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| 134 | Cozma, P; Betianu, C; Ilhior, RM; Simion, IM; Gavrilescu, M                                                                                                                                                                                                                                       | Bio-Recovery of Metals through Biomining within Circular-Based Solutions                                                                                             | PROCESSES                                                                         | 2024 | 12   | 9  |     |     |  | <a href="http://dx.doi.org/10.3390/pr12091793">http://dx.doi.org/10.3390/pr12091793</a>                               | WOS:001123634900001   | ISI-ISI | WOS |
| 135 | Bebe, GG; Shahu, DB; Gebre, SE; Abay, KH; Mihret, GG; Tesfamariam, CM; Lapiro, SA; Chenu, MS; Mersasi, AG                                                                                                                                                                                         | Acidithiobacillus ferrooxidans Leaching of Silica-Sulfide Gold Ores from May-Hibey Deposits, Tigray, Ethiopia                                                        | INTERNATIONAL JOURNAL OF CHEMICAL ENGINEERING                                     | 2024 | 2024 |    |     |     |  | <a href="http://dx.doi.org/10.1155/2024/5611117">http://dx.doi.org/10.1155/2024/5611117</a>                           | WOS:001186114500001   | ISI-ISI | WOS |
| 136 | Lee, H; Sam, K; Coulon, F; De Gisi, S; Notariicola, M; Lashana, C                                                                                                                                                                                                                                 | Recent developments and prospects of sustainable remediation treatments for major contaminants in soil: A review                                                     | SCIENCE OF THE TOTAL ENVIRONMENT                                                  | 2024 | 912  |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.scitotenv.2023.168769">http://dx.doi.org/10.1016/j.scitotenv.2023.168769</a>     | WOS:001133439400001   | ISI-ISI | WOS |
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| 139 | Xu, DL; Li, XF; Chen, J; Li, JH                                                                                                                                                                                                                                                                   | Research Progress of Soil and Vegetation Restoration Technology in Open-Pit Coal Mine: A Review                                                                      | AGRICULTURE-BASEL                                                                 | 2023 | 13   | 2  |     |     |  | <a href="http://dx.doi.org/10.3390/agriculture13020226">http://dx.doi.org/10.3390/agriculture13020226</a>             | WOS:000937935200001   | ISI-ISI | WOS |
| 140 | Wang, P; Liu, XL; Zeng, G; Ma, JF; Xia, F                                                                                                                                                                                                                                                         | Effects of Temperature on the Leaching Behavior of Pb from Cement Stabilization/Solidification-Treated Contaminated Soil                                             | SEPARATIONS                                                                       | 2022 | 9    | 12 |     |     |  | <a href="http://dx.doi.org/10.3390/separations9120402">http://dx.doi.org/10.3390/separations9120402</a>               | WOS:000902867100001   | ISI-ISI | WOS |
| 141 | Sánchez-Rojas, T; Espinoza-Culapa, A; Ramirez, P; Irujo, LK; Montoni, F; Macedo-Prada, D; Sulca-López, M; Durin, Y; Farfán-López, M; Herencia, J                                                                                                                                                  | Proteomic Study of Response to Copper, Cadmium, and Chromium Ion Stress in Yarrowia lipolytica Strains Isolated from Andean Mine Tailings in Peru                    | MICROORGANISMS                                                                    | 2022 | 10   | 10 |     |     |  | <a href="http://dx.doi.org/10.3390/microorganisms10102002">http://dx.doi.org/10.3390/microorganisms10102002</a>       | WOS:000873202500001   | ISI-ISI | WOS |
| 142 | Liu, SS; Huang, KH; Yuan, GD; Yang, CF                                                                                                                                                                                                                                                            | Effects of Polyethylene Microplastics and Phenanthrene on Soil Properties, Enzyme Activities and Bacterial Communities                                               | PROCESSES                                                                         | 2022 | 10   | 10 |     |     |  | <a href="http://dx.doi.org/10.3390/pr10102128">http://dx.doi.org/10.3390/pr10102128</a>                               | WOS:000873420200001   | ISI-ISI | WOS |
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| 144 | Razmi, A; Bennett, T; Xie, T; Vaisintin, P                                                                                                                                                                                                                                                        | The Effects of an Adaptive Ventilation Control System on Indoor Air Quality and Energy Consumption                                                                   | SUSTAINABILITY                                                                    | 2024 | 16   | 22 |     |     |  | <a href="http://dx.doi.org/10.3390/su16229836">http://dx.doi.org/10.3390/su16229836</a>                               | WOS:001166561400001   | ISI-ISI | WOS |
| 145 | Vasile, V; Iordache, V; Radu, VM; Petcu, C; Drăgoescu, CS                                                                                                                                                                                                                                         | The Influence of Using Recycled Waste Aggregates and Adding TiO2 Nanoparticles on the Corrosion Resistance of Steel Reinforcement Embedded in Cementitious Composite | MATERIALS                                                                         | 2024 | 17   | 16 |     |     |  | <a href="http://dx.doi.org/10.3390/ma17163895">http://dx.doi.org/10.3390/ma17163895</a>                               | WOS:0011307141700001  | ISI-ISI | WOS |
| 146 | Guo, YQ; Ren, MM; Li, JH; Zhang, TS; Zhu, W; Ren, Q; Wei, JX; Ye, QJ                                                                                                                                                                                                                              | Synergistic optimizing particle size distributions of aggregate and cementitious materials: Toward lower chloride diffusivity of concrete                            | CONSTRUCTION AND BUILDING MATERIALS                                               | 2024 | 436  |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2024.136979">http://dx.doi.org/10.1016/j.conbuildmat.2024.136979</a> | WOS:001252082500001   | ISI-ISI | WOS |
| 147 | Awwar, M; Emrah, DA                                                                                                                                                                                                                                                                               | Chloride permeability through different specimen surfaces of blast-furnace slag cement concrete with and without air-entraining agent                                | APPLICATIONS IN ENGINEERING SCIENCE                                               | 2023 | 15   |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.applsci.2023.100134">http://dx.doi.org/10.1016/j.applsci.2023.100134</a>         | WOS:0011006291600001  | ISI-ISI | WOS |
| 148 | Xu, YS; Zhou, JQ; Jin, SJ                                                                                                                                                                                                                                                                         | Early Strength Evolution of Cement Gypsum Adopted in Reinforced Concrete Subjected to Na2SO4 Corrosion                                                               | BUILDINGS                                                                         | 2023 | 13   | 3  |     |     |  | <a href="http://dx.doi.org/10.3390/buid13030579">http://dx.doi.org/10.3390/buid13030579</a>                           | WOS:000954855900001   | ISI-ISI | WOS |
| 149 | Vacek, M; Krivy, V; Kvasilová, K; Vlachová, M; Kubová, M                                                                                                                                                                                                                                          | Experimental Measurement of Deposition Chloride Ions in the Vicinity of Road Cut                                                                                     | MATERIALS                                                                         | 2023 | 16   | 1  |     |     |  | <a href="http://dx.doi.org/10.3390/ma16010808">http://dx.doi.org/10.3390/ma16010808</a>                               | WOS:000910398200001   | ISI-ISI | WOS |
| 150 | Lai, MH; Chen, ZH; Wang, YH; Ho, JCM                                                                                                                                                                                                                                                              | Effect of fillers on the mechanical properties and durability of steel slag concrete                                                                                 | CONSTRUCTION AND BUILDING MATERIALS                                               | 2022 | 335  |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2022.127495">http://dx.doi.org/10.1016/j.conbuildmat.2022.127495</a> | WOS:000793399700001   | ISI-ISI | WOS |
| 151 | Procházka, I; Bobková, J; Vojtovsková, B                                                                                                                                                                                                                                                          | Effect of Additives on Durability and Physical-Mechanical Properties of Alkali-Activated Materials                                                                   | MATERIALS                                                                         | 2022 | 15   | 6  |     |     |  | <a href="http://dx.doi.org/10.3390/ma15062010">http://dx.doi.org/10.3390/ma15062010</a>                               | WOS:000775045600001   | ISI-ISI | WOS |
| 152 | Toader, TP; Dico, C; Mircea, C                                                                                                                                                                                                                                                                    | Cementitious Composite Materials with Self-healing Properties Using Integral Waterproofing Additives by Mass Crystallization                                         | 15TH INTERNATIONAL CONFERENCE INTERDISCIPLINARITY IN ENGINEERING                  | 2022 | 386  |    | 150 | 165 |  | <a href="http://dx.doi.org/10.1007/978-3-03093817-8_16">http://dx.doi.org/10.1007/978-3-03093817-8_16</a>             | WOS:000773080200016   | ISI-ISI | WOS |
| 153 | Hegyi, A., Dico, C., & Szilágyi, H. (2020). Sheep wool thermal insulating mattresses behaviour in the water vapour presence. <i>Proceedings Manufacturing</i> , 46, 410-417., DOI:10.1016/j.promfg.2020.03.060, WOS:000582466200059                                                               | Sustainable insulation materials for E-grocery shipments: A multi-criteria evaluation                                                                                | FUTURE FOODS                                                                      | 2025 | 12   |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.future.2025.100690">http://dx.doi.org/10.1016/j.future.2025.100690</a>           | WOS:001529263900001   | ISI-ISI | WOS |
| 154 | Vijelis, S; Vaitkus, S; Skulcius, Y; Klemenas, A; Kairys, A                                                                                                                                                                                                                                       | Performance Evaluation of Thermal Insulation Materials from Sheep's Wool and Hemp Fibers                                                                             | MATERIALS                                                                         | 2024 | 17   | 13 |     |     |  | <a href="http://dx.doi.org/10.3390/ma17133339">http://dx.doi.org/10.3390/ma17133339</a>                               | WOS:001269797200001   | ISI-ISI | WOS |
| 155 | Hartup, S; Megahed, N; Abu Elreem, O; Eldehawy, D                                                                                                                                                                                                                                                 | Exploring the potential of sheep wool as an eco-friendly insulation material: A comprehensive review and analytical ranking                                          | SUSTAINABLE MATERIALS AND TECHNOLOGIES                                            | 2024 | 39   |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.susmat.2023.e00812">http://dx.doi.org/10.1016/j.susmat.2023.e00812</a>           | WOS:001165754600001   | ISI-ISI | WOS |
| 156 | Ahbi, A; Tahli, M; Aouat, B; Khabbazi, A; Anati, O; Cherkoua, M; Cherradi, T                                                                                                                                                                                                                      | Physicochemical and thermomechanical performance study for Tunisian sheep wool fibres application in the building's insulation                                       | SCIENTIFIC REPORTS                                                                | 2023 | 13   | 1  |     |     |  | <a href="http://dx.doi.org/10.1038/s41598-023-15161-9">http://dx.doi.org/10.1038/s41598-023-15161-9</a>               | WOS:000984094500068   | ISI-ISI | WOS |
| 157 | Ruiz, B; Fuente, E; Pérez, A; Taboada-Ruiz, I; Sanz, JM; Calvo, LF; Penuaga, S                                                                                                                                                                                                                    | Employment of conventional and flash pyrolysis for biomass wastes from the textile industry with sustainable prospects                                               | JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS                                       | 2023 | 169  |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.jaap.2023.105864">http://dx.doi.org/10.1016/j.jaap.2023.105864</a>               | WOS:000924646900001   | ISI-ISI | WOS |
| 158 | Kucinska-Jakubowska, A; Broda, J; Zimniewska, M; Baczek, M; Mankowski, J                                                                                                                                                                                                                          | Effect of Blend Composition on Barrier Properties of Insulating Mats Produced from Local Wool and Waste Bast Fibres                                                  | MATERIALS                                                                         | 2023 | 16   | 1  |     |     |  | <a href="http://dx.doi.org/10.3390/ma16010459">http://dx.doi.org/10.3390/ma16010459</a>                               | WOS:000909148300001   | ISI-ISI | WOS |
| 159 | Cholewinska, P; Nazar, P; Jankeczek, A; Smolinski, J; Czajka, K; Wyrostek, A                                                                                                                                                                                                                      | The Level of Selected Bacterial Phyla on the Skin Surface of Small Ruminants According to the Breed and Species                                                      | ANIMALS                                                                           | 2021 | 11   | 9  |     |     |  | <a href="http://dx.doi.org/10.3390/a11092724">http://dx.doi.org/10.3390/a11092724</a>                                 | WOS:000700560700001   | ISI-ISI | WOS |
| 160 | Bukhtir, K; Pillon, C; Cayla, A; Campagne, C                                                                                                                                                                                                                                                      | Antibacterial Textile Based on Hydrolyzed Milk Casein                                                                                                                | MATERIALS                                                                         | 2021 | 14   | 2  |     |     |  | <a href="http://dx.doi.org/10.3390/ma14020251">http://dx.doi.org/10.3390/ma14020251</a>                               | WOS:000611373600001   | ISI-ISI | WOS |
| 161 | Hegyi, A., Lăzărescu, A. V., Szilágyi, H., Ghețemian, E., Góia, J., & Mircu, A. (2021). Influence of TiO2 nanoparticles on the resistance of cementitious composite materials to the action of bacteria. <i>Materials</i> , 14(5), 1074., DOI:10.3390/ma14051074, WOS:000628368200001             | Type of nano-TiO2 incorporation in to self-cleaning cement mortars has influence on crystal microstructure properties                                                | NEXT MATERIALS                                                                    | 2025 | 8    |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.nextmat.2025.100830">http://dx.doi.org/10.1016/j.nextmat.2025.100830</a>         | WOS:001517275800003   | ISI-ISI | WOS |
| 162 | Khangar, TP; Kondraivendhan, B; Parmar, NP                                                                                                                                                                                                                                                        | Assessment of mechanical and microstructural properties of concrete using titanium dioxide with recycled and virgin aggregates                                       | WORLD JOURNAL OF ENGINEERING                                                      | 2025 |      |    |     |     |  | <a href="http://dx.doi.org/10.1108/WJE-06-2024-0350">http://dx.doi.org/10.1108/WJE-06-2024-0350</a>                   | WOS:001422553300001   | ISI-ISI | WOS |
| 163 | Darini, R; Ahari, H; Khosrojerdi, A; Jamat, B; Bahabandeh, H                                                                                                                                                                                                                                      | Antimicrobial properties of Graphene Anoxets embedded with Titanium Oxide and Calcium Oxide nanoparticles for industrial wastewater treatment                        | SCIENTIFIC REPORTS                                                                | 2025 | 15   | 1  |     |     |  | <a href="http://dx.doi.org/10.1038/s41598-024-84335-x">http://dx.doi.org/10.1038/s41598-024-84335-x</a>               | WOS:001198315800045   | ISI-ISI | WOS |
| 164 | Shankar, AN; Mandal, P                                                                                                                                                                                                                                                                            | Mechanical and smart properties of cement nanocomposites containing nanomaterials: A brief review                                                                    | OPEN ENGINEERING                                                                  | 2024 | 14   | 1  |     |     |  | <a href="http://dx.doi.org/10.1515/eng-2024-0043">http://dx.doi.org/10.1515/eng-2024-0043</a>                         | WOS:001266181000001   | ISI-ISI | WOS |
| 165 | Ziad, S; Bensoudjafer, I; Bensoudjafer, I                                                                                                                                                                                                                                                         | Towards the use of natural thermal insulation on the exterior of vertical building walls in desert regions: A case study in the city of Bechar, Algeria              | JOURNAL OF THERMAL ENGINEERING                                                    | 2024 | 10   | 2  | 308 | 320 |  | <a href="http://dx.doi.org/10.18186/jtherm.1448599">http://dx.doi.org/10.18186/jtherm.1448599</a>                     | WOS:001194796200005   | ISI-ISI | WOS |
| 166 | Borja, W; Adamouch, M; El Hafiane, Y; Daafi, Y; Tannoui, Y; Alami, J                                                                                                                                                                                                                              | Synthesis of nano-silica as a promising route of recycling phosphate waste rocks and its incorporation in mortars                                                    | SUSTAINABLE MATERIALS AND TECHNOLOGIES                                            | 2023 | 37   |    |     |     |  | <a href="http://dx.doi.org/10.1016/j.susmat.2023.e00664">http://dx.doi.org/10.1016/j.susmat.2023.e00664</a>           | WOS:001064321200001   | ISI-ISI | WOS |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------|-----|------|------|---------------------------------------------------------------------------------------------------------------------------|----------------------|---------|-----|
| 167 |                                                                                                                                                                                                                                                                              | Papadopoulos, ND; Vourna, P; Palara, PP; Koutasfiki, P; Nafkiki, S                                                                                                                                                                                                                                                                                                         | Dual-function coatings to protect substrate surfaces from fouling                                                                                               | AIMS MATERIALS SCIENCE                                                                                                                                       | 2023                                  | 10     | 6   | 981  | 1003 | <a href="http://dx.doi.org/10.3934/materials.2023053">http://dx.doi.org/10.3934/materials.2023053</a>                     | WOS:001103749100001  | ISI-ISI | WOS |
| 168 |                                                                                                                                                                                                                                                                              | Dudek, D; Janis, M                                                                                                                                                                                                                                                                                                                                                         | Photocative Cements: A Review                                                                                                                                   | MATERIALS                                                                                                                                                    | 2022                                  | 15     | 15  |      |      | <a href="http://dx.doi.org/10.3390/ma15155407">http://dx.doi.org/10.3390/ma15155407</a>                                   | WOS:000838953800001  | ISI-ISI | WOS |
| 169 |                                                                                                                                                                                                                                                                              | Sanda, AV                                                                                                                                                                                                                                                                                                                                                                  | Obtaining and Characterization of New Materials                                                                                                                 | MATERIALS                                                                                                                                                    | 2021                                  | 14     | 21  |      |      | <a href="http://dx.doi.org/10.3390/ma14216696">http://dx.doi.org/10.3390/ma14216696</a>                                   | WOS:000722384100001  | ISI-ISI | WOS |
| 170 | Hegyi, A., Szilagyi, H., Grebenjan, E., Sanda, A. V., Lăzărescu, A. V., & Romila, C. (2020). Influence of TiO2 nanoparticles addition on the hydrophilicity of cementitious composite surfaces. Applied Sciences, 10(13), 4501. DOI:10.3390/app10134501, WOS:000550436700001 | Vasilie, V; Iordache, V; Radu, VM; Petcu, C; Dragomir, CS                                                                                                                                                                                                                                                                                                                  | The Effects of an Adaptive Ventilation Control System on Indoor Air Quality and Energy Consumption                                                              | SUSTAINABILITY                                                                                                                                               | 2024                                  | 16     | 22  |      |      | <a href="http://dx.doi.org/10.3390/su160229836">http://dx.doi.org/10.3390/su160229836</a>                                 | WOS:001166561400001  | ISI-ISI | WOS |
| 171 |                                                                                                                                                                                                                                                                              | Du, L.; Chen, XR; Cheng, TK; Qi, ST; Zhu, J; Feng, ZM; Wang, L; Jiang, YQ; Li, YH; He, ZX                                                                                                                                                                                                                                                                                  | Major Obstacles and Optimization Strategies for the Electrode of Vanadium Redox Flow Battery                                                                    | ACS MATERIALS LETTERS                                                                                                                                        | 2024                                  | 6      | 7   | 2816 | 2836 | <a href="http://dx.doi.org/10.1021/acsmaterialslett.4c00517">http://dx.doi.org/10.1021/acsmaterialslett.4c00517</a>       | WOS:001242756300001  | ISI-ISI | WOS |
| 172 |                                                                                                                                                                                                                                                                              | Sanda, I                                                                                                                                                                                                                                                                                                                                                                   | Obtaining, Characterization and Applications of Advanced Materials                                                                                              | APPLIED SCIENCES-BASEL                                                                                                                                       | 2023                                  | 13     | 15  |      |      | <a href="http://dx.doi.org/10.3390/app13158698">http://dx.doi.org/10.3390/app13158698</a>                                 | WOS:001046697500001  | ISI-ISI | WOS |
| 173 |                                                                                                                                                                                                                                                                              | Kazemi, M; Wang, HN; Fini, E                                                                                                                                                                                                                                                                                                                                               | Bio-based and nature inspired solutions: A step toward carbon-neutral economy                                                                                   | JOURNAL OF ROAD ENGINEERING                                                                                                                                  | 2022                                  | 2      | 3   | 221  | 242  | <a href="http://dx.doi.org/10.1016/j.jren.2022.08.001">http://dx.doi.org/10.1016/j.jren.2022.08.001</a>                   | WOS:001170737700001  | ISI-ISI | WOS |
| 174 |                                                                                                                                                                                                                                                                              | Dudek, D; Janis, M                                                                                                                                                                                                                                                                                                                                                         | Photocative Cements: A Review                                                                                                                                   | MATERIALS                                                                                                                                                    | 2022                                  | 15     | 15  |      |      | <a href="http://dx.doi.org/10.3390/ma15155407">http://dx.doi.org/10.3390/ma15155407</a>                                   | WOS:000838953800001  | ISI-ISI | WOS |
| 175 |                                                                                                                                                                                                                                                                              | Matrical-Barba, A; Sanchez-Burgos, JA; Zamora-Ganga, V; Larios, AP                                                                                                                                                                                                                                                                                                         | Study of the Response Surface in the Photocatalytic Degradation of Acetaminophen Using TiO2                                                                     | PHOTOCHIM                                                                                                                                                    | 2022                                  | 2      | 1   | 225  | 236  | <a href="http://dx.doi.org/10.3390/Photochem2010017">http://dx.doi.org/10.3390/Photochem2010017</a>                       | WOS:001269005400001  | ISI-ISI | WOS |
| 176 |                                                                                                                                                                                                                                                                              | Florescu, C. T., Vermesan, H., Thalmair, G., Neamtu, B. V., Gabor, T., Campian, C., Hegyi, A., & Caspi, A. (2024). The influence of TiO2 nanoparticles on the physico-mechanical and structural characteristics of cementitious materials. Coatings, 14(2), 218. DOI:10.3390/coatings14020218, WOS:001175240800001                                                         | Mohamed, AM; Tayeh, BA; Ahmed, TI; Bashir, MO; Tobbia, DE                                                                                                       | Influence of nano-silica and nanoferrite particles on mechanical and durability of sustainable concrete: A review                                            | NANOTECHNOLOGY REVIEWS                | 2025   | 14  | 1    |      | <a href="http://dx.doi.org/10.1515/nrrev-2025-0151">http://dx.doi.org/10.1515/nrrev-2025-0151</a>                         | WOS:001458807900001  | ISI-ISI | WOS |
| 177 |                                                                                                                                                                                                                                                                              | Goyal, R; Verma, VK; Singh, NB                                                                                                                                                                                                                                                                                                                                             | Hydration and stain resistance of blended cements in presence of nano-TiO2                                                                                      | INNOVATIVE INFRASTRUCTURE SOLUTIONS                                                                                                                          | 2025                                  | 10     | 2   |      |      | <a href="http://dx.doi.org/10.1007/s41062-024-01828-4">http://dx.doi.org/10.1007/s41062-024-01828-4</a>                   | WOS:001403627300003  | ISI-ISI | WOS |
| 178 |                                                                                                                                                                                                                                                                              | Jedrzczak, P; Parus, A; Kubiak, A; Hotek, P; Fiala, L; Słowiarczyk, A; Jesionowski, T; Cerny, R; Klapiszewski, L                                                                                                                                                                                                                                                           | Unraveling the photocatalytic and antimicrobial performance of carbon-TiO2/lignin hybrid admixtures in sustainable cement composites                            | CEMENT & CONCRETE COMPOSITES                                                                                                                                 | 2025                                  | 155    |     |      |      | <a href="http://dx.doi.org/10.1016/j.cemconcomp.2024.105843">http://dx.doi.org/10.1016/j.cemconcomp.2024.105843</a>       | WOS:001358227000001  | ISI-ISI | WOS |
| 179 |                                                                                                                                                                                                                                                                              | Stroková, V; Ogurtsov, Y; Gubareva, E; Nenayeva, S; Antonenko, M                                                                                                                                                                                                                                                                                                           | Multifunctional Antane-Silica Photocatalytic Material for Cements and Concrete                                                                                  | JOURNAL OF COMPOSITES SCIENCE                                                                                                                                | 2024                                  | 8      | 6   |      |      | <a href="http://dx.doi.org/10.3390/cs8060207">http://dx.doi.org/10.3390/cs8060207</a>                                     | WOS:001256643800001  | ISI-ISI | WOS |
| 180 |                                                                                                                                                                                                                                                                              | Salam, AH; Assolte, AA; Alsaifiah, A                                                                                                                                                                                                                                                                                                                                       | Mechanical Performance and Microstructure Evolution of Nano-TiO2 Enhanced Cement - A Comprehensive Experimental Analysis                                        | ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL                                                                                                          | 2024                                  | 18     | 7   | 203  | 214  | <a href="http://dx.doi.org/10.12913/22908624/193524">http://dx.doi.org/10.12913/22908624/193524</a>                       | WOS:001177831000015  | ISI-ISI | WOS |
| 181 |                                                                                                                                                                                                                                                                              | Petcu, C., Dobrescu, C. F., Dragomir, C. S., Cărboni, A. A., Lăzărescu, A. V., & Hegyi, A. (2023). Thermophysical characteristics of clay for efficient rammed earth wall construction. Materials, 16(17), 6015. DOI:10.3390/ma16176015, WOS:001062375000001                                                                                                               | Komari, A; Mosaddegh, A; Jemini, M; Fahfah, A                                                                                                                   | Stabilization of rammed earth with waste materials for sustainable construction under rainfall Conditions: With consideration of life cycle assessment (LCA) | DEVELOPMENTS IN THE BUILT ENVIRONMENT | 2025   | 23  |      |      | <a href="http://dx.doi.org/10.1016/j.dbe.2025.100701">http://dx.doi.org/10.1016/j.dbe.2025.100701</a>                     | WOS:0014255342100001 | ISI-ISI | WOS |
| 182 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | Thermal Conductivity of Sustainable Earthen Materials Stabilized by Natural and Bio-Based Polymers: An Experimental and Statistical Analysis                    | ENERGIES                                                                                                                                                     | 2025                                  | 18     | 12  |      |      | <a href="http://dx.doi.org/10.3390/en18123144">http://dx.doi.org/10.3390/en18123144</a>                                   | WOS:001515405400001  | ISI-ISI | WOS |
| 183 |                                                                                                                                                                                                                                                                              | Wang, YJ; Song, JX; Zhang, JH; Huang, Y; Yang, S                                                                                                                                                                                                                                                                                                                           | Analysis of Rammed Earth Wall Erosion in Traditional Village Dwellings in Zhushan City                                                                          | COATINGS                                                                                                                                                     | 2025                                  | 15     | 5   |      |      | <a href="http://dx.doi.org/10.3390/coatings15050528">http://dx.doi.org/10.3390/coatings15050528</a>                       | WOS:001495553100001  | ISI-ISI | WOS |
| 184 |                                                                                                                                                                                                                                                                              | Kannan, D; Luo, NX; Cui, YJ; Hakkirajan, M; Zhang, X; Ibrahim, W; Asiv, D                                                                                                                                                                                                                                                                                                  | Thermal Performance of Radiantly Cooled Rammed Earth                                                                                                            | MULTIPHYSICS AND MULTISCALE BUILDING PHYSICS, IBCP 2024, VOL.3                                                                                               | 2025                                  | 554    |     | 140  | 147  | <a href="http://dx.doi.org/10.1007/978-91-97-8313-7_21">http://dx.doi.org/10.1007/978-91-97-8313-7_21</a>                 | WOS:001440336600021  | ISI-ISI | WOS |
| 185 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | From bio-based & geosourced materials to building hygrothermal transfers: A review of modeling, simulation and experiment                                       | JOURNAL OF BUILDING ENGINEERING                                                                                                                              | 2024                                  | 98     |     |      |      | <a href="http://dx.doi.org/10.1016/j.jobe.2024.110979">http://dx.doi.org/10.1016/j.jobe.2024.110979</a>                   | WOS:001144299100001  | ISI-ISI | WOS |
| 186 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | Balancing Environmental Impact and Practicality: A Case Study on the Cement-Stabilized Rammed Earth Construction in Southeast Rural China                       | SUSTAINABILITY                                                                                                                                               | 2024                                  | 16     | 20  |      |      | <a href="http://dx.doi.org/10.3390/su16208731">http://dx.doi.org/10.3390/su16208731</a>                                   | WOS:001141511700001  | ISI-ISI | WOS |
| 187 |                                                                                                                                                                                                                                                                              | Cappai, M; Shoukat, R; Pila, L; Riccio, R; Lu, DNI; Marongiu, G; Pira, G                                                                                                                                                                                                                                                                                                   | Thermal Properties of Eco-Friendly Earthen Materials Stabilized with Bio-Based Polymers: Experimental Data and Modeling Procedure for Improving Mix-Design      | MATERIALS                                                                                                                                                    | 2024                                  | 17     | 5   |      |      | <a href="http://dx.doi.org/10.3390/ma17051035">http://dx.doi.org/10.3390/ma17051035</a>                                   | WOS:001182747100001  | ISI-ISI | WOS |
| 188 |                                                                                                                                                                                                                                                                              | Calatn, G; Hegyi, A.; Dico, C., & Szilagyi, H (2020). Opportunities regarding the use of adobe bricks within contemporary architecture. Procedia Manufacturing, 46, 150-157. DOI:10.1016/j.promfg.2020.03.023, WOS:000524662000022                                                                                                                                         | Bentgeri, H; Rabehi, M; Kharbani, S; Nahdi, TA; Rabehi, A; Guermat, M; Alhusan, AA; Khlafga, DS; Eid, MM; El-Kenawy, EM                                         | Assessment of compressive strength of eco-concrete reinforced using machine learning tools                                                                   | SCIENTIFIC REPORTS                    | 2025   | 15  | 1    |      | <a href="http://dx.doi.org/10.1038/s41598-025-89530-v">http://dx.doi.org/10.1038/s41598-025-89530-v</a>                   | WOS:001420046500035  | ISI-ISI | WOS |
| 189 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | A review of mechanical properties of clay adobe bricks stabilized with Agrowastes and varied water-clay proportions                                             | INNOVATIVE INFRASTRUCTURE SOLUTIONS                                                                                                                          | 2024                                  | 9      | 9   |      |      | <a href="http://dx.doi.org/10.1007/s41062-024-01656-6">http://dx.doi.org/10.1007/s41062-024-01656-6</a>                   | WOS:001283980000001  | ISI-ISI | WOS |
| 190 |                                                                                                                                                                                                                                                                              | Kurman, TS; Sofi, A                                                                                                                                                                                                                                                                                                                                                        | HEAT TRANSMISSION THROUGH WALLS OF COMPOSITE MATERIAL WITH CLAY MATRIX                                                                                          | INMATEH-AGRICULTURAL ENGINEERING                                                                                                                             | 2024                                  | 73     | 2   | 416  | 426  | <a href="http://dx.doi.org/10.35633/inmateh-73-35">http://dx.doi.org/10.35633/inmateh-73-35</a>                           | WOS:001293857700035  | ISI-ISI | WOS |
| 191 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | Progression of bio-modified adobe with derivatives of casava penderm and clay brick waste by experimental and probabilistic prediction models                   | CONSTRUCTION AND BUILDING MATERIALS                                                                                                                          | 2023                                  | 399    |     |      |      | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2023.132535">http://dx.doi.org/10.1016/j.conbuildmat.2023.132535</a>     | WOS:001047479500001  | ISI-ISI | WOS |
| 192 |                                                                                                                                                                                                                                                                              | Kurman, TS; Sofi, A                                                                                                                                                                                                                                                                                                                                                        | Feasibility of Using Coal Ash for the Production of Sustainable Bricks                                                                                          | SUSTAINABILITY                                                                                                                                               | 2022                                  | 14     | 11  |      |      | <a href="http://dx.doi.org/10.3390/su141116692">http://dx.doi.org/10.3390/su141116692</a>                                 | WOS:000808849900001  | ISI-ISI | WOS |
| 193 |                                                                                                                                                                                                                                                                              | Petkova-Slipeva, R; Yordanov, K; Zlateva, P                                                                                                                                                                                                                                                                                                                                | A COMPARATIVE THERMAL ANALYSIS OF WALLS COMPOSED OF TRADITIONAL AND ALTERNATIVE BUILDING MATERIALS                                                              | CIVIL AND ENVIRONMENTAL ENGINEERING                                                                                                                          | 2020                                  | 16     | 2   | 388  | 395  | <a href="http://dx.doi.org/10.2478/cce-2020-0039">http://dx.doi.org/10.2478/cce-2020-0039</a>                             | WOS:0006000052100019 | ISI-ISI | WOS |
| 194 |                                                                                                                                                                                                                                                                              | Hegyi, A.; Dico, C., & Calatn, G. (2016). Construction sustainability with adobe bricks: type elements. Urbanism Architecture Constructio, 1(2), 147. WOS:000375254500005                                                                                                                                                                                                  | Serebe, YAA; Ouedraogo, M; Douma, A; Simon, J; Zangre, WKJE; Aubert, JE; Gagnon, M; Millon, Y                                                                   | Optimization of kenaf fiber content for the improvement of the thermophysical and mechanical properties of adobe                                             | CONSTRUCTION AND BUILDING MATERIALS   | 2024   | 431 |      |      | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2024.136469">http://dx.doi.org/10.1016/j.conbuildmat.2024.136469</a>     | WOS:001242102500001  | ISI-ISI | WOS |
| 195 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | Compressed earth blocks (CEB) compression tested under two earth standards                                                                                      | COGENT ENGINEERING                                                                                                                                           | 2023                                  | 10     | 1   |      |      | <a href="http://dx.doi.org/10.1080/23311916.2022.2163116">http://dx.doi.org/10.1080/23311916.2022.2163116</a>             | WOS:000918999500001  | ISI-ISI | WOS |
| 196 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | Contemporary difficulties and challenges for the implementation and development of compressed earth block building technology in Argentina                      | JOURNAL OF BUILDING ENGINEERING                                                                                                                              | 2022                                  | 46     |     |      |      | <a href="http://dx.doi.org/10.1016/j.jobe.2021.103748">http://dx.doi.org/10.1016/j.jobe.2021.103748</a>                   | WOS:000776167300001  | ISI-ISI | WOS |
| 197 |                                                                                                                                                                                                                                                                              | Medina, MAO                                                                                                                                                                                                                                                                                                                                                                | MECHANICAL PROPERTIES OF LIGHTWEIGHT FOAMED CONCRETE REINFORCED WITH RAW MESOCARP FIBRE                                                                         | CIVIL ENGINEERING JOURNAL-STAVEBNI ORZOR                                                                                                                     | 2021                                  | 30     | 3   | 621  | 633  | <a href="http://dx.doi.org/10.14311/CEJ.2021.03.0047">http://dx.doi.org/10.14311/CEJ.2021.03.0047</a>                     | WOS:000711780900009  | ISI-ISI | WOS |
| 198 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | COMPRESSED EARTH BLOCKS (CEB) STABILIZED WITH LIME AND CEMENT: EVALUATION OF BOTH THEIR ENVIRONMENTAL IMPACT AND COMPRESSIVE STRENGTH                           | REVISTA HABITAT SUSTENTABLE                                                                                                                                  | 2020                                  | 10     | 2   | 71   | 81   | <a href="http://dx.doi.org/10.22320/rhs.2020.10.02.05">http://dx.doi.org/10.22320/rhs.2020.10.02.05</a>                   | WOS:000605171000007  | ISI-ISI | WOS |
| 199 |                                                                                                                                                                                                                                                                              | Cabrera, SP; Jiménez, YGA; Dominguez, EJB; Rotundo, R                                                                                                                                                                                                                                                                                                                      | Impact of thermal mass for future energy consumption: case study in adobe house                                                                                 | INTERNATIONAL JOURNAL OF GLOBAL WARMING                                                                                                                      | 2019                                  | 19     | 1-2 | 220  | 232  | <a href="http://dx.doi.org/10.1504/IJGW.2019.101783">http://dx.doi.org/10.1504/IJGW.2019.101783</a>                       | WOS:000483546600015  | ISI-ISI | WOS |
| 200 |                                                                                                                                                                                                                                                                              | Hegyi, A., Lăzărescu, A. V., Cărboni, A. A., Ionescu, B. A., Grebenjan, E., Chira, M., ... & Stoian, V. (2023). Study on the possibilities of developing cementitious or geopolymers composite materials with specific performance by exploiting the photocatalytic properties of TiO2 nanoparticles. Materials, 16(10), 3741. DOI:10.3390/ma16103741, WOS:000997192300001 | Arvan, ZD; Yöney, EG                                                                                                                                            | Towards sustainability: Upcycling bypass dust for production of TiO2-grafting alkali-activated cement as cleaner building materials                          | JOURNAL OF BUILDING ENGINEERING       | 2025   | 107 | 100  |      | <a href="http://dx.doi.org/10.1016/j.jobe.2025.112795">http://dx.doi.org/10.1016/j.jobe.2025.112795</a>                   | WOS:001486108800001  | ISI-ISI | WOS |
| 201 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | Studying the Impact of Cement-Based and Geopolymer Concrete on the Proliferation of Escherichia coli and Staphylococcus aureus in Water-Related Applications    | MATERIALS                                                                                                                                                    | 2025                                  | 18     | 10  | 11   |      | <a href="http://dx.doi.org/10.3390/ma18112560">http://dx.doi.org/10.3390/ma18112560</a>                                   | WOS:001506064600001  | ISI-ISI | WOS |
| 202 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | The application of nanoparticle-doped geopolymers as innovative photocatalysts for degrading organic pollutants in aquatic environments: A comprehensive review | JOURNAL OF MOLECULAR STRUCTURE                                                                                                                               | 2025                                  | 000000 |     |      |      | <a href="http://dx.doi.org/10.1016/j.molstruc.2025.142303">http://dx.doi.org/10.1016/j.molstruc.2025.142303</a>           | WOS:001466456500001  | ISI-ISI | WOS |
| 203 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | Influence of nano-TiO2 additives in sealing materials on the air tightness of methane drainage boreholes in coal mines                                          | MATERIA-RO DE JANEIRO                                                                                                                                        | 2025                                  | 30     | 00  |      |      | <a href="http://dx.doi.org/10.1590/s17-7076-RMAT-2024-0696">http://dx.doi.org/10.1590/s17-7076-RMAT-2024-0696</a>         | WOS:001403239900001  | ISI-ISI | WOS |
| 204 |                                                                                                                                                                                                                                                                              | Jedrzczak, P; Parus, A; Kubiak, A; Hotek, P; Fiala, L; Słowiarczyk, A; Jesionowski, T; Cerny, R; Klapiszewski, L                                                                                                                                                                                                                                                           | Unraveling the photocatalytic and antimicrobial performance of carbon-TiO2/lignin hybrid admixtures in sustainable cement composites                            | CEMENT & CONCRETE COMPOSITES                                                                                                                                 | 2025                                  | 155    | 00  |      |      | <a href="http://dx.doi.org/10.1016/j.cemconcomp.2024.105843">http://dx.doi.org/10.1016/j.cemconcomp.2024.105843</a>       | WOS:001358227000001  | ISI-ISI | WOS |
| 205 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | Alkali-Activated Materials Doped with ZnO: Physicochemical and Antibacterial Properties                                                                         | MATERIALS                                                                                                                                                    | 2023                                  | 16     | 18  | 00   |      | <a href="http://dx.doi.org/10.3390/ma16186224">http://dx.doi.org/10.3390/ma16186224</a>                                   | WOS:001073750300001  | ISI-ISI | WOS |
| 206 |                                                                                                                                                                                                                                                                              | Hegyi, A.; Dico, C., Constantinescu, H., & Baeră, C. (2017). Influence of hot-dip galvanizing of reinforcement on the kinetics and thermodynamics of corrosion process in concrete. Procedia Engineering, 181, 226-233. DOI:10.1016/j.proeng.2017.02.380, WOS:000404612700032                                                                                              | Garcia-Rodriguez, A; Montoya, P; Rodriguez-Gomez, JI; Perez-Lopez, T; Gencica, J                                                                                | Effect of a Fast Potential Change on the Early Stage of Zinc Passivation in a Saturated Calcium Hydroxide Solution                                           | FRONTIERS IN MATERIALS                | 2022   | 9   |      |      | <a href="http://dx.doi.org/10.3389/fmats.2022.877728">http://dx.doi.org/10.3389/fmats.2022.877728</a>                     | WOS:000827475600001  | ISI-ISI | WOS |
| 207 |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            | Electrochemical and physicochemical studies for adsorption of Bovine serum albumin for corrosion mitigation of zinc                                             | MATERIALS CHEMISTRY AND PHYSICS                                                                                                                              | 2022                                  | 283    |     |      |      | <a href="http://dx.doi.org/10.1016/j.materchemphys.2021.126034">http://dx.doi.org/10.1016/j.materchemphys.2021.126034</a> | WOS:000793278700002  | ISI-ISI | WOS |



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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------|-----|----|------|-----------------------------------------------------------------------------------------------------------------------|----------------------|---------|-----|
| 208 | Kumar, CMP; Lakshminathan, A; Chandrasekharappa, MPG; Pimenov, DY; Gustin, K                                                                                                                                                                                                                                                           | Electrodeposition Based Preparation of Zn-Ni Alloy and Zn-Ni-WC Nano-Composite Coatings for Corrosion-Resistant Applications                                                          | COATINGS                                                                     | 2021 | 11  | 6  |      | <a href="http://dx.doi.org/10.3390/coatings11060712">http://dx.doi.org/10.3390/coatings11060712</a>                   | WOS:000665280300001  | ISI-ISI | WOS |
| 209 | Kumar, CMP; Chandrasekharappa, MPG; Kulkarni, RM; Pimenov, DY; Gustin, K                                                                                                                                                                                                                                                               | The Effect of Zn and Zn-WO3 Composites Nano-Coatings Deposition on Hardness and Corrosion Resistance in Salt Solution                                                                 | MATERIALS                                                                    | 2021 | 14  | 9  |      | <a href="http://dx.doi.org/10.3390/ma14092253">http://dx.doi.org/10.3390/ma14092253</a>                               | WOS:000650570500001  | ISI-ISI | WOS |
| 210 | Argüillera, A; Margallo, M; Urtiaga, A; Iribian, A                                                                                                                                                                                                                                                                                     | Life-cycle assessment as a tool to evaluate the environmental impact of hot-dip galvanization                                                                                         | JOURNAL OF CLEANER PRODUCTION                                                | 2021 | 290 |    |      | <a href="http://dx.doi.org/10.1016/j.jclepro.2020.125676">http://dx.doi.org/10.1016/j.jclepro.2020.125676</a>         | WOS:000620275200015  | ISI-ISI | WOS |
| 211 | Janičič, M; Kolodziej, J; Duddik, M                                                                                                                                                                                                                                                                                                    | Assessing effects of chloride-induced corrosion of galvanized reinforcing steel in cement mortar, using impedance spectroscopy and scanning microscopy                                | OČIBRONA PRIZED KOROZIJA                                                     | 2018 | 61  | 7  | 176  | <a href="http://dx.doi.org/10.15199/41.2018.7.1">http://dx.doi.org/10.15199/41.2018.7.1</a>                           | WOS:000439318800001  | ISI-ISI | WOS |
| 212 | Floresan, C. T., Vermejan, H, Gabor, T., Neamtu, B. V., Thalmer, G, Hegyi, A., & Lăzărescu, A. V. (2024). Influence of TiO2 nanoparticles on the physical, mechanical, and structural characteristics of cementitious composites with recycled aggregates. <i>Materials</i> , 17(9), 2014. DOI:10.3390/ma17092014. WOS:001220519800001 | A review on nanomaterials and polymer modified cementitious materials with high performances                                                                                          | JOURNAL OF BUILDING ENGINEERING                                              | 2025 | 104 |    |      | <a href="http://dx.doi.org/10.1016/j.jobe.2025.112331">http://dx.doi.org/10.1016/j.jobe.2025.112331</a>               | WOS:001457201900001  | ISI-ISI | WOS |
| 213 | Jedrejczak, P; Paris, A; Miliński, M; Klapiszewski, I; Balicki, S; Kolodziejczak-Radzińska, A; Świąńska-Ciesielska, K; Fiala, L; Wilk, KA; Cemy, R; Klapiszewski, L                                                                                                                                                                    | The novel incorporation of lignin-based systems for the preparation of antimicrobial cement composites                                                                                | INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES                           | 2024 | 282 |    | 1    | <a href="http://dx.doi.org/10.1016/j.jbiomac.2024.136721">http://dx.doi.org/10.1016/j.jbiomac.2024.136721</a>         | WOS:001344316000001  | ISI-ISI | WOS |
| 214 | Floresan, CT; Chira, M; Vermejan, H; Gabor, T; Hegyi, A; Cismas, CA; Campian, C                                                                                                                                                                                                                                                        | The Influence of Using Recycled Waste Aggregates and Adding TiO2 Nanoparticles on the Corrosion Resistance of Steel Reinforcement Embedded in Cementitious Composite                  | MATERIALS                                                                    | 2024 | 17  | 16 |      | <a href="http://dx.doi.org/10.3390/ma17163895">http://dx.doi.org/10.3390/ma17163895</a>                               | WOS:001307141700001  | ISI-ISI | WOS |
| 215 | Zhang, M; Cheng, C; Chiang, KS; Wang, XX; Zhu, YZ; Zhao, ZF; Lan, H                                                                                                                                                                                                                                                                    | Influence of Nano-Silicon Dioxide in the Enhancement of Surface Structure of Public Filler and Properties of Recycled Mortar                                                          | BUILDINGS                                                                    | 2024 | 14  | 7  |      | <a href="http://dx.doi.org/10.3390/buidings14072093">http://dx.doi.org/10.3390/buidings14072093</a>                   | WOS:001278181800001  | ISI-ISI | WOS |
| 216 | Lăzărescu, A. V., Hegyi, A., Capota, A., & Popa, F. (2024). The Influence of Different Aggregation on the Physico-Mechanical Performance of Alkali-Activated Geopolymer Composites Produced Using Romanian Fly Ash. <i>Materials</i> , 17(3), 485. DOI:10.3390/ma17020485. WOS:001151522400001                                         | Effects of red mud, desert sand, and ground granulated blast furnace slag on the mechanical properties and microstructure of fly ash-based geopolymer                                 | CONSTRUCTION AND BUILDING MATERIALS                                          | 2025 | 468 |    |      | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2025.140471">http://dx.doi.org/10.1016/j.conbuildmat.2025.140471</a> | WOS:001430421200001  | ISI-ISI | WOS |
| 217 | Zuharev, KP; Shcherban, EM; Shefmalh, SA; Beskopnyin, AN; Zhabova, D; Chernitskiy, A; Zakareva, NI; Pimenov, EV; Shilov, AA                                                                                                                                                                                                            | Structure and Properties Improvement by Recipe Factors of Geopolymer Basalt Fiber Reinforced Concrete for Building Enclosing Structures                                               | BUILDINGS                                                                    | 2024 | 14  | 3  |      | <a href="http://dx.doi.org/10.3390/buidings14030743">http://dx.doi.org/10.3390/buidings14030743</a>                   | WOS:001191621100001  | ISI-ISI | WOS |
| 218 | Lăzărescu, A. V., Ionescu, B. A., Hegyi, A., & Floresan, C. (2023). Alkali-activated fly ash based geopolymer paving blocks: Green materials for future conservation of resources. <i>International Journal of Conservation Science</i> , 13(1), 175-186. WOS:000819464600011                                                          | Valorisation of Tuff and Brick Wastes by Alkali Activation for Historical Building Renovation                                                                                         | MATERIALS                                                                    | 2023 | 16  | 20 |      | <a href="http://dx.doi.org/10.3390/ma16206619">http://dx.doi.org/10.3390/ma16206619</a>                               | WOS:001095144700001  | ISI-ISI | WOS |
| 219 | Teshnizi, ES; Karimnazar, J; Baldivinos, JA                                                                                                                                                                                                                                                                                            | Effect of Acid and Thermo-Mechanical Attacks on Compressive Strengths of Geopolymer Mortar with Different Eco-Friendly Materials                                                      | SUSTAINABILITY                                                               | 2023 | 15  | 19 |      | <a href="http://dx.doi.org/10.3390/su151914407">http://dx.doi.org/10.3390/su151914407</a>                             | WOS:001081172500001  | ISI-ISI | WOS |
| 220 | Hegyi, A; Dolacu, C; Szilagyi, H; Lăzărescu, A. V.; Colba, D. E., & Sandu, M. (2021). Waste management in the context of the development of sustainable thermal insulation products for the construction sector. <i>International Journal of Conservation Science</i> , 12(1), 225-236. WOS:000625324400016                            | A circular economy framework for plastics: A semi-systematic review                                                                                                                   | JOURNAL OF CLEANER PRODUCTION                                                | 2022 | 364 |    |      | <a href="http://dx.doi.org/10.1016/j.jclepro.2022.132503">http://dx.doi.org/10.1016/j.jclepro.2022.132503</a>         | WOS:000821950400007  | ISI-ISI | WOS |
| 221 | Chira, M; Hegyi, A; Vermejan, H; Szilagyi, H; & Lăzărescu, A. (2020). Corrosion Resistance of Electrodeposited Layers using a Zn-Ni Electrolyte Impregnated with Tris, Tetra-, and Pentavalent Elements. <i>Procedia Manufacturing</i> , 46, 4-11. DOI:10.1016/j.promfg.2020.03.002. WOS:000505824600001                               | Optimization of pulse electrodepositation parameters for enhanced resistance to corrosion and hydrogen permeation of zinc coatings                                                    | MATERIALIA                                                                   | 2024 | 38  |    |      | <a href="http://dx.doi.org/10.1016/j.mrlia.2024.102273">http://dx.doi.org/10.1016/j.mrlia.2024.102273</a>             | WOS:001146533700001  | ISI-ISI | WOS |
| 222 | Jeyapankaj, N; Yang, CH; Sossila, P; Karuppusamy, SS                                                                                                                                                                                                                                                                                   | Laser Cladding of NiCrMoFeNbTa Particles on Inconel 625 Alloy: Microstructure and Corrosion Resistance                                                                                | TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS                               | 2023 | 76  | 2  | 599  | <a href="http://dx.doi.org/10.1007/s12666-022-02701-7">http://dx.doi.org/10.1007/s12666-022-02701-7</a>               | WOS:000877401800001  | ISI-ISI | WOS |
| 223 | Jeyapankaj, N; Yang, CH; Karuppusamy, SS                                                                                                                                                                                                                                                                                               | LASER CLADDING OF COLMONICOR® PARTICLES ON INCONEL 625 SUBSTRATE: MICROSTRUCTURE AND CORROSION RESISTANCE                                                                             | SURFACE REVIEW AND LETTERS                                                   | 2022 | 29  | 8  |      | <a href="http://dx.doi.org/10.1142/S0218628X22501025">http://dx.doi.org/10.1142/S0218628X22501025</a>                 | WOS:000842995500010  | ISI-ISI | WOS |
| 224 | Natarajan, J; Yang, CH; Karuppusamy, SS                                                                                                                                                                                                                                                                                                | Investigation on Microstructure, Nanohardness and Corrosion Response of Laser Cladded Colmonico® Particles on 316L Steel Substrate                                                    | MATERIALS                                                                    | 2021 | 14  | 20 |      | <a href="http://dx.doi.org/10.3390/ma14206183">http://dx.doi.org/10.3390/ma14206183</a>                               | WOS:000716353700001  | ISI-ISI | WOS |
| 225 | Mireea, A. C., Szilagyi, H, Hegyi, A., & Baera, C. (2020). Study of self-healing cementitious composites for durable and sustainable infrastructure. <i>Procedia Manufacturing</i> , 46, 871-878. DOI:10.1016/j.promfg.2020.05.002. WOS:000582466200123                                                                                | Study on the freeze-thaw cycles and carbonation of ultra-high molecular weight polyethylene fiber reinforced engineered cementitious composite for link slab                          | CONSTRUCTION AND BUILDING MATERIALS                                          | 2023 | 400 |    |      | <a href="http://dx.doi.org/10.1016/j.conbuildmat.2023.132371">http://dx.doi.org/10.1016/j.conbuildmat.2023.132371</a> | WOS:00105978200001   | ISI-ISI | WOS |
| 226 | Gupta, S; Al-Obeidi, S; Ferran, L                                                                                                                                                                                                                                                                                                      | Data Mining Strategies to Handle State of Art Knowledge on Self-Healing Capacity of Cementitious Materials                                                                            | PROCEEDINGS OF THE 75TH RILEM ANNUAL WEEK 2021                               | 2023 | 40  |    | 168  | <a href="http://dx.doi.org/10.1007/978-3-031-21735-7_20">http://dx.doi.org/10.1007/978-3-031-21735-7_20</a>           | WOS:001000560900020  | ISI-ISI | WOS |
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| WOS articole care citeaza                                                                                                                                 |                     |  | Articole care citeaza (articole citat)                                                                                                                                                                                                                                                                                                                                                                                                                 |                |     |   |                     |  |                                                                                                                                                                                                                                                                                                                                      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