

Pawel Sikora

List of Publications by Year in descending order

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54
papers

1,774
citations

218592

26
h-index

276775

41
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all docs

54
docs citations

54
times ranked

1484
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of nano- and micro-sized additives on 3D printable cementitious and alkali-activated composites: a review. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 805-823.	1.6	39
2	Investigating the release of ZnO nanoparticles from cement mortars on microbiological models. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 489-502.	1.6	14
3	Boosting Portland cement-free composite performance via alkali-activation and reinforcement with pre-treated functionalised wheat straw. <i>Industrial Crops and Products</i> , 2022, 178, 114648.	2.5	15
4	A systematic experimental study on biochar-cementitious composites: Towards carbon sequestration. <i>Industrial Crops and Products</i> , 2022, 184, 115103.	2.5	15
5	High-performance polylactic acid compressed strawboard using pre-treated and functionalised wheat straw. <i>Industrial Crops and Products</i> , 2022, 184, 114996.	2.5	9
6	Insight into the microstructural and durability characteristics of 3D printed concrete: Cast versus printed specimens. <i>Case Studies in Construction Materials</i> , 2022, 17, e01320.	0.8	6
7	Effect of different expanded aggregates on durability-related characteristics of lightweight aggregate concrete. <i>Materials Characterization</i> , 2021, 173, 110907.	1.9	18
8	The effects of nanosilica on the fresh and hardened properties of 3D printable mortars. <i>Construction and Building Materials</i> , 2021, 281, 122574.	3.2	35
9	Investigation of additive incorporation on rheological, microstructural and mechanical properties of 3D printable alkali-activated materials. <i>Materials and Design</i> , 2021, 202, 109574.	3.3	64
10	The performance of ultra-lightweight foamed concrete incorporating nanosilica. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	1.9	16
11	Evaluation of the effects of bismuth oxide (Bi ₂ O ₃) micro and nanoparticles on the mechanical, microstructural and I ³ -ray/neutron shielding properties of Portland cement pastes. <i>Construction and Building Materials</i> , 2021, 284, 122758.	3.2	27
12	Thermal performance of building envelopes with structural layers of the same density: Lightweight aggregate concrete versus foamed concrete. <i>Building and Environment</i> , 2021, 196, 107799.	3.0	18
13	Biofilms in the gravity sewer interfaces: making a friend from a foe. <i>Reviews in Environmental Science and Biotechnology</i> , 2021, 20, 795-813.	3.9	4
14	Modification of Lightweight Aggregate Concretes with Silica Nanoparticles – A Review. <i>Materials</i> , 2021, 14, 4242.	1.3	12
15	3D printable lightweight cementitious composites with incorporated waste glass aggregates and expanded microspheres – Rheological, thermal and mechanical properties. <i>Journal of Building Engineering</i> , 2021, 44, 102718.	1.6	25
16	Development of rapid-hardening ultra-high strength cementitious composites using superzeolite and N-C-S-H-PCE alkaline nanomodifier. <i>Eastern-European Journal of Enterprise Technologies</i> , 2021, 5, 62-72.	0.3	6
17	Hygric Properties of Machine-Made, Historic Clay Bricks from North-Eastern Poland (Former East) Tj ETQq1 1 0.784314 rgBT (Overlock 1	1.3	3
18	The effects of seawater on the hydration, microstructure and strength development of Portland cement pastes incorporating colloidal silica. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 2627-2638.	1.6	46

#	ARTICLE	IF	CITATIONS
19	Cement-Based Composites: Advancements in Development and Characterization. <i>Crystals</i> , 2020, 10, 832.	1.0	5
20	Biocarbonation: A novel method for synthesizing nano-zinc/zirconium carbonates and oxides. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8092-8099.	2.3	4
21	Evaluating the effects of nanosilica on the material properties of lightweight and ultra-lightweight concrete using image-based approaches. <i>Construction and Building Materials</i> , 2020, 264, 120241.	3.2	59
22	The Effects of Temperature Curing on the Strength Development, Transport Properties, and Freeze-Thaw Resistance of Blast Furnace Slag Cement Mortars Modified with Nanosilica. <i>Materials</i> , 2020, 13, 5800.	1.3	9
23	The effects of seawater and nanosilica on the performance of blended cements and composites. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5009-5026.	1.6	25
24	An Investigation of the Mechanical and Physical Characteristics of Cement Paste Incorporating Different Air Entraining Agents using X-ray Micro-Computed Tomography. <i>Crystals</i> , 2020, 10, 23.	1.0	6
25	The Effect of Lightweight Concrete Cores on the Thermal Performance of Vacuum Insulation Panels. <i>Materials</i> , 2020, 13, 2632.	1.3	10
26	Inverse Estimation Method of Material Randomness Using Observation. <i>Crystals</i> , 2020, 10, 512.	1.0	1
27	Comparison of the pore size distributions of concretes with different air-entraining admixture dosages using 2D and 3D imaging approaches. <i>Materials Characterization</i> , 2020, 162, 110182.	1.9	33
28	The effects of calcium silicate hydrate (C-S-H) seeds on reference microorganisms. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4855-4867.	1.6	8
29	The microstructural and thermal characteristics of silica nanoparticle-modified cement mortars after exposure to high temperatures. Part I.. <i>Nanotechnologies in Construction</i> , 2020, 12, 108-115.	0.1	0
30	Challenges in Studying the Incorporation of Nanomaterials to Building Materials on Microbiological Models. <i>Springer Proceedings in Physics</i> , 2019, , 285-303.	0.1	6
31	Influence of Nanosilica on Mechanical Properties, Sorptivity, and Microstructure of Lightweight Concrete. <i>Materials</i> , 2019, 12, 3078.	1.3	51
32	Preparation and Characterization of Ultra-Lightweight Foamed Concrete Incorporating Lightweight Aggregates. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1447.	1.3	33
33	Comparison of lightweight aggregate and foamed concrete with the same density level using image-based characterizations. <i>Construction and Building Materials</i> , 2019, 211, 988-999.	3.2	79
34	Accident Rate as a Measure of Safety Assessment in Polish Civil Engineering. <i>Safety</i> , 2019, 5, 77.	0.9	2
35	Mechanical and microstructural properties of cement pastes containing carbon nanotubes and carbon nanotube-silica core-shell structures, exposed to elevated temperature. <i>Cement and Concrete Composites</i> , 2019, 95, 193-204.	4.6	88
36	Incorporation of magnetite powder as a cement additive for improving thermal resistance and gamma-ray shielding properties of cement-based composites. <i>Construction and Building Materials</i> , 2019, 204, 113-121.	3.2	29

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37	The effect of nanomaterials on thermal resistance of cement-based composites exposed to elevated temperature. <i>Materials Today: Proceedings</i> , 2018, 5, 15968-15975.	0.9	9
38	The effects of Fe ₃ O ₄ and Fe ₃ O ₄ /SiO ₂ nanoparticles on the mechanical properties of cement mortars exposed to elevated temperatures. <i>Construction and Building Materials</i> , 2018, 182, 441-450.	3.2	28
39	Antimicrobial Activity of Al ₂ O ₃ , CuO, Fe ₃ O ₄ , and ZnO Nanoparticles in Scope of Their Further Application in Cement-Based Building Materials. <i>Nanomaterials</i> , 2018, 8, 212.	1.9	92
40	The Influence of Nanomaterials on the Thermal Resistance of Cement-Based Composites – A Review. <i>Nanomaterials</i> , 2018, 8, 465.	1.9	75
41	Waste-free synthesis of silica nanospheres and silica nanocoatings from recycled ethanol – ammonium solution. <i>Chemical Papers</i> , 2017, 71, 841-848.	1.0	10
42	The effect of elevated temperature on the properties of cement mortars containing nanosilica and heavyweight aggregates. <i>Construction and Building Materials</i> , 2017, 137, 420-431.	3.2	105
43	Chemical and thermal stability of core-shelled magnetite nanoparticles and solid silica. <i>Applied Surface Science</i> , 2017, 407, 391-397.	3.1	56
44	Thermal Properties of Cement Mortars Containing Waste Glass Aggregate and Nanosilica. <i>Procedia Engineering</i> , 2017, 196, 159-166.	1.2	67
45	Properties of Cement Composites Modified with Silica-magnetite Nanostructures. <i>Procedia Engineering</i> , 2017, 196, 105-112.	1.2	7
46	The effects of silica/titania nanocomposite on the mechanical and bactericidal properties of cement mortars. <i>Construction and Building Materials</i> , 2017, 150, 738-746.	3.2	83
47	Evaluation of the Effects of Crushed and Expanded Waste Glass Aggregates on the Material Properties of Lightweight Concrete Using Image-Based Approaches. <i>Materials</i> , 2017, 10, 1354.	1.3	85
48	Characterization of Mechanical and Bactericidal Properties of Cement Mortars Containing Waste Glass Aggregate and Nanomaterials. <i>Materials</i> , 2016, 9, 701.	1.3	70
49	Application of Nanomaterials in Production of Self-Sensing Concretes: Contemporary Developments and Prospects. <i>Archives of Civil Engineering</i> , 2016, 62, 61-74.	0.7	11
50	The Influence of Nano-Fe ₃ O ₄ on the Microstructure and Mechanical Properties of Cementitious Composites. <i>Nanoscale Research Letters</i> , 2016, 11, 182.	3.1	92
51	Mechanical Properties of Shielding Concrete with Magnetite Aggregate Subjected to High Temperature. <i>Procedia Engineering</i> , 2015, 108, 39-46.	1.2	62
52	The Effect of Nanosilica on the Mechanical Properties of polymer-Cement Composites (PCC). <i>Procedia Engineering</i> , 2015, 108, 139-145.	1.2	39
53	The Effect of Nanosilica and Titanium Dioxide on the Mechanical and Self-Cleaning Properties of Waste-Glass Cement Mortar. <i>Procedia Engineering</i> , 2015, 108, 146-153.	1.2	33
54	Effect of incorporation route on dispersion of mesoporous silica nanospheres in cement mortar. <i>Construction and Building Materials</i> , 2014, 66, 418-421.	3.2	30