Kevin Paine

List of Publications by Year
in descending order

58 papers	2,280 citations	279701 23 h-index	233338 45 g-index
61 all docs	61 docs citations	61 times ranked	1926 citing authors

#	Article	IF	Citations
1	Crack growth and closure in cementitious composites: Monitoring using piezoceramic sensors. Sensors and Actuators A: Physical, 2022, 333, 113221.	2.0	7
2	The Effect of Bacteria on Early Age Strength of CEM I and CEM II Cementitious Composites. Sustainability, 2022, 14, 773.	1.6	2
3	The effects of biomineralization on the localised phase and microstructure evolutions of bacteria-based self-healing cementitious composites. Cement and Concrete Composites, 2022, 128, 104421.	4.6	22
4	Air-entraining admixtures as a protection method for bacterial spores in self-healing cementitious composites: Healing evaluation of early and later-age cracks. Construction and Building Materials, 2022, 327, 126877.	3.2	17
5	Evaluation of Cyclic Healing Potential of Bacteria-Based Self-Healing Cementitious Composites. Sustainability, 2022, 14, 6845.	1.6	6
6	Incorporation of bacteria in concrete: The case against MICP as a means for strength improvement. Cement and Concrete Composites, 2021, 120, 104056.	4.6	51
7	A review on applications of sol-gel science in cement. Construction and Building Materials, 2021, 291, 123065.	3.2	29
8	Waste-Based porous materials as water reservoirs for the internal curing of Concrete. A review. Construction and Building Materials, 2021, 299, 124244.	3.2	14
9	Aerobic non-ureolytic bacteria-based self-healing cementitious composites: A comprehensive review. Journal of Building Engineering, 2021, 42, 102834.	1.6	25
10	Analysis of Sorghum Stalks and Fibres for Use in the Production of Low-Cost Housing Materials. Materials Circular Economy, 2021, 3, 1.	1.6	1
11	Genetic optimisation of bacteria-induced calcite precipitation in Bacillus subtilis. Microbial Cell Factories, 2021, 20, 214.	1.9	10
12	Interesting Remarks on the Comparison of Organomodified Nanomontmorillonites in Fibre-Cement Nanohybrids. IOP Conference Series: Materials Science and Engineering, 2020, 842, 012008.	0.3	1
13	Waste Wash-Water Recycling in Ready Mix Concrete Plants. Environments - MDPI, 2020, 7, 108.	1.5	16
14	A multi-variable study of factors affecting the complex resistivity of conductive mortar. Magazine of Concrete Research, 2020, 72, 681-692.	0.9	4
15	A Step by Step Methodology for Building Sustainable Cementitious Matrices. Applied Sciences (Switzerland), 2020, 10, 2955.	1.3	10
16	In-Depth Profiling of Calcite Precipitation by Environmental Bacteria Reveals Fundamental Mechanistic Differences with Relevance to Application. Applied and Environmental Microbiology, 2020, 86, .	1.4	38
17	Effect of carbonation on bacteria-based self-healing of cementitious composites. Construction and Building Materials, 2020, 257, 119501.	3.2	43
18	Optimization of Low-Carbon Footprint Quaternary and Quinary (37% Fly Ash) Cementitious Nanocomposites with Polycarboxylate or Aqueous Nanosilica Particles. Advances in Materials Science and Engineering, 2019, 2019, 1-26.	1.0	20

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19	Permeable Nanomontmorillonite and Fibre Reinforced Cementitious Binders. Materials, 2019, 12, 3245.	1.3	11
20	From Nanostructural Characterization of Nanoparticles to Performance Assessment of Low Clinker Fiberâ€"Cement Nanohybrids. Applied Sciences (Switzerland), 2019, 9, 1938.	1.3	8
21	Sensing of Damage and Repair of Cement Mortar Using Electromechanical Impedance. Materials, 2019, 12, 3925.	1.3	6
22	Olivine as a reactive aggregate in lime mortars. Construction and Building Materials, 2019, 195, 115-126.	3.2	12
23	The pozzolanic properties of inorganic and organomodified nano-montmorillonite dispersions. Construction and Building Materials, 2018, 167, 299-316.	3.2	33
24	Polycarboxylate/nanosilica-modified quaternary cement formulations â€" enhancements and limitations. Advances in Cement Research, 2018, 30, 256-269.	0.7	13
25	Physical and mechanical properties of plasters incorporating aerogel granules and polypropylene monofilament fibres. Construction and Building Materials, 2018, 158, 472-480.	3.2	41
26	Application of expanded perlite encapsulated bacteria and growth media for self-healing concrete. Construction and Building Materials, 2018, 160, 610-619.	3.2	189
27	Lowering cement clinker: A thorough, performance based study on the use of nanoparticles of SiO2 or montmorillonite in Portland limestone nanocomposites. European Physical Journal Plus, 2018, 133, 1.	1.2	9
28	Pore-structure and microstructural investigation of organomodified/Inorganic nano-montmorillonite cementitious nanocomposites. AIP Conference Proceedings, 2018, , .	0.3	6
29	Biomimetic cementitious construction materials for next-generation infrastructure. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 2018, 171, 67-76.	1.1	13
30	Chemical aspects related to using recycled geopolymers as aggregates. Advances in Cement Research, 2018, 30, 361-370.	0.7	2
31	A Review of Selfâ€Healing Concrete for Damage Management of Structures. Advanced Materials Interfaces, 2018, 5, 1800074.	1.9	412
32	Bacteria-based concrete. , 2018, , 531-567.		20
33	Alkaliphilic<i>Bacillus</i>species show potential application in concrete crack repair by virtue of rapid spore production and germination then extracellular calcite formation. Journal of Applied Microbiology, 2017, 122, 1233-1244.	1.4	79
34	Tailored montmorillonite nanoparticles and their behaviour in the alkaline cement environment. Applied Clay Science, 2017, 143, 67-75.	2.6	36
35	Inorganic and organomodified nano-montmorillonite dispersions for use as supplementary cementitious materials â€" a novel theory based on nanostructural studies. Nanocomposites, 2017, 3, 2-19.	2.2	30
36	Utilization of Fabric Formwork for Improving the Durability of Concrete from Supersulfated Cement. Key Engineering Materials, 2016, 711, 615-621.	0.4	7

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37	Diagnosis of carbonation induced corrosion initiation and progression in reinforced concrete structures using piezo-impedance transducers. Sensors and Actuators A: Physical, 2016, 242, 79-91.	2.0	82
38	Performance characteristics of concrete based on a ternary calcium sulfoaluminateâ€"anhydriteâ€"fly ash cement. Cement and Concrete Composites, 2015, 55, 196-204.	4.6	50
39	The environmental credentials of hydraulic lime-pozzolan concretes. Journal of Cleaner Production, 2015, 93, 26-37.	4.6	50
40	Effects of nanosilica on the calcium silicate hydrates in Portland cementâ€"fly ash systems. Advances in Cement Research, 2015, 27, 187-200.	0.7	25
41	Establishing rational use of recycled aggregates in concrete: a performance-related approach. Magazine of Concrete Research, 2015, 67, 559-574.	0.9	25
42	Dispersed Inorganic or Organomodified Montmorillonite Clay Nanoparticles for Blended Portland Cement Pastes: Effects on Microstructure and Strength. , 2015, , 131-139.		10
43	Structural and durability properties of hydraulic limeâ€"pozzolan concretes. Cement and Concrete Composites, 2015, 62, 212-223.	4.6	23
44	A comprehensive review of the models on the nanostructure of calcium silicate hydrates. Construction and Building Materials, 2015, 74, 219-234.	3.2	131
45	Minimising the global warming potential of clay based geopolymers. Journal of Cleaner Production, 2014, 78, 75-83.	4.6	221
46	Screw connectors for thin topping, timberâ€"concrete composites. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1891-1899.	1.3	11
47	Innovative solutions please, as long as they have been proved elsewhere: The case of a polished lime-pozzolan concrete floor. Case Studies in Construction Materials, 2014, 1, 33-39.	0.8	2
48	Properties of a ternary calcium sulfoaluminateâ€"calcium sulfateâ€"fly ash cement. Cement and Concrete Research, 2014, 56, 75-83.	4.6	111
49	Ultra-Thin Topping Upgrades for Improved Serviceability Performance. Advanced Materials Research, 2013, 778, 673-681.	0.3	1
50	The potential for using geopolymer concrete in the UK. Proceedings of Institution of Civil Engineers: Construction Materials, 2013, 166, 195-203.	0.7	31
51	Investigations on cementitious composites based on rubber particle waste additions. Materials Research, 2013, 16, 259-268.	0.6	28
52	Recycled aggregates in concrete: a performance-related approach. Magazine of Concrete Research, 2010, 62, 519-530.	0.9	65
53	A linear test method for determining early-age shrinkage of concrete. Magazine of Concrete Research, 2008, 60, 747-757.	0.9	9
54	Measurement of early-age temperature rises in concrete made with blended cements. Magazine of Concrete Research, 2008, 60, 109-118.	0.9	2

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55	Experimental study and modelling of heat evolution of blended cements. Advances in Cement Research, 2005, 17, 121-132.	0.7	21
56	Incinerator Bottom Ash: Engineering and Environmental Properties as a Cement Bound Paving Material. International Journal of Pavement Engineering, 2002, 3, 43-52.	2.2	30
57	Hygrothermal Performance of an Experimental Hemp-Lime Building. Key Engineering Materials, 0, 517, 413-421.	0.4	30
58	Large Scale Application of Self-Healing Concrete: Design, Construction, and Testing. Frontiers in Materials, 0, 5, .	1.2	75