Kevin Paine

List of Publications by Year
in descending order

58	2,280	279701 23	233338 45
papers	citations	h-index	g-index

61	61	61	1926
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Review of Selfâ€Healing Concrete for Damage Management of Structures. Advanced Materials Interfaces, 2018, 5, 1800074.	1.9	412
2	Minimising the global warming potential of clay based geopolymers. Journal of Cleaner Production, 2014, 78, 75-83.	4.6	221
3	Application of expanded perlite encapsulated bacteria and growth media for self-healing concrete. Construction and Building Materials, 2018, 160, 610-619.	3.2	189
4	A comprehensive review of the models on the nanostructure of calcium silicate hydrates. Construction and Building Materials, 2015, 74, 219-234.	3.2	131
5	Properties of a ternary calcium sulfoaluminateâ€“calcium sulfateâ€“fly ash cement. Cement and Concrete Research, 2014, 56, 75-83.	4.6	111
6	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
7	AlkaliphilicBacillusspecies 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
8	Large Scale Application of Self-Healing Concrete: Design, Construction, and Testing. Frontiers in Materials, 0, 5, .	1.2	75
9	Recycled aggregates in concrete: a performance-related approach. Magazine of Concrete Research, 2010, 62, 519-530.	0.9	65
10	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
11	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
12	The environmental credentials of hydraulic lime-pozzolan concretes. Journal of Cleaner Production, 2015, 93, 26-37.	4.6	50
13	Effect of carbonation on bacteria-based self-healing of cementitious composites. Construction and Building Materials, 2020, 257, 119501.	3.2	43
14	Physical and mechanical properties of plasters incorporating aerogel granules and polypropylene monofilament fibres. Construction and Building Materials, 2018, 158, 472-480.	3.2	41
15	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
16	Tailored montmorillonite nanoparticles and their behaviour in the alkaline cement environment. Applied Clay Science, 2017, 143, 67-75.	2.6	36
17	The pozzolanic properties of inorganic and organomodified nano-montmorillonite dispersions. Construction and Building Materials, 2018, 167, 299-316.	3.2	33
18	The potential for using geopolymer concrete in the UK. Proceedings of Institution of Civil Engineers: Construction Materials, 2013, 166, 195-203.	0.7	31

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19	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
20	Hygrothermal Performance of an Experimental Hemp-Lime Building. Key Engineering Materials, 0, 517, 413-421.	0.4	30
21	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
22	A review on applications of sol-gel science in cement. Construction and Building Materials, 2021, 291, 123065.	3.2	29
23	Investigations on cementitious composites based on rubber particle waste additions. Materials Research, 2013, 16, 259-268.	0.6	28
24	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
25	Establishing rational use of recycled aggregates in concrete: a performance-related approach. Magazine of Concrete Research, 2015, 67, 559-574.	0.9	25
26	Aerobic non-ureolytic bacteria-based self-healing cementitious composites: A comprehensive review. Journal of Building Engineering, 2021, 42, 102834.	1.6	25
27	Structural and durability properties of hydraulic limeâ€“pozzolan concretes. Cement and Concrete Composites, 2015, 62, 212-223.	4.6	23
28	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
29	Experimental study and modelling of heat evolution of blended cements. Advances in Cement Research, 2005, 17, 121-132.	0.7	21
30	Bacteria-based concrete. , 2018, , 531-567.		20
31	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
32	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
33	Waste Wash-Water Recycling in Ready Mix Concrete Plants. Environments - MDPI, 2020, 7, 108.	1.5	16
34	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
35	Polycarboxylate/nanosilica-modified quaternary cement formulations â€“ enhancements and limitations. Advances in Cement Research, 2018, 30, 256-269.	0.7	13
36	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

#	Article	IF	Citations
37	Olivine as a reactive aggregate in lime mortars. Construction and Building Materials, 2019, 195, 115-126.	3.2	12
38	Screw connectors for thin topping, timberâ€“concrete composites. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1891-1899.	1.3	11
39	Permeable Nanomontmorillonite and Fibre Reinforced Cementitious Binders. Materials, 2019, 12, 3245.	1.3	11
40	Dispersed Inorganic or Organomodified Montmorillonite Clay Nanoparticles for Blended Portland Cement Pastes: Effects on Microstructure and Strength. , 2015, , 131-139.		10
41	A Step by Step Methodology for Building Sustainable Cementitious Matrices. Applied Sciences (Switzerland), 2020, 10, 2955.	1.3	10
42	Genetic optimisation of bacteria-induced calcite precipitation in Bacillus subtilis. Microbial Cell Factories, 2021, 20, 214.	1.9	10
43	A linear test method for determining early-age shrinkage of concrete. Magazine of Concrete Research, 2008, 60, 747-757.	0.9	9
44	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
45	From Nanostructural Characterization of Nanoparticles to Performance Assessment of Low Clinker Fiberâ€“Cement Nanohybrids. Applied Sciences (Switzerland), 2019, 9, 1938.	1.3	8
46	Utilization of Fabric Formwork for Improving the Durability of Concrete from Supersulfated Cement. Key Engineering Materials, 2016, 711, 615-621.	0.4	7
47	Crack growth and closure in cementitious composites: Monitoring using piezoceramic sensors. Sensors and Actuators A: Physical, 2022, 333, 113221.	2.0	7
48	Pore-structure and microstructural investigation of organomodified/Inorganic nano-montmorillonite cementitious nanocomposites. AIP Conference Proceedings, 2018, , .	0.3	6
49	Sensing of Damage and Repair of Cement Mortar Using Electromechanical Impedance. Materials, 2019, 12, 3925.	1.3	6
50	Evaluation of Cyclic Healing Potential of Bacteria-Based Self-Healing Cementitious Composites. Sustainability, 2022, 14, 6845.	1.6	6
51	A multi-variable study of factors affecting the complex resistivity of conductive mortar. Magazine of Concrete Research, 2020, 72, 681-692.	0.9	4
52	Measurement of early-age temperature rises in concrete made with blended cements. Magazine of Concrete Research, 2008, 60, 109-118.	0.9	2
53	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
54	Chemical aspects related to using recycled geopolymers as aggregates. Advances in Cement Research, 2018, 30, 361-370.	0.7	2

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55	The Effect of Bacteria on Early Age Strength of CEM I and CEM II Cementitious Composites. Sustainability, 2022, 14, 773.	1.6	2
56	Ultra-Thin Topping Upgrades for Improved Serviceability Performance. Advanced Materials Research, 2013, 778, 673-681.	0.3	1
57	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
58	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