

Sze-Dai Pang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

1,594
citations

19
h-index

39
g-index

61
ext. papers

2,051
ext. citations

6.6
avg, IF

5.76
L-index

#	Paper	IF	Citations
57	Enhancement of barrier properties of cement mortar with graphene nanoplatelet. <i>Cement and Concrete Research</i> , 2015 , 76, 10-19	10.3	174
56	Activation energy based extreme value statistics and size effect in brittle and quasibrittle fracture. <i>Journal of the Mechanics and Physics of Solids</i> , 2007 , 55, 91-131	5	168
55	Use of 2D Graphene Nanoplatelets (GNP) in cement composites for structural health evaluation. <i>Composites Part B: Engineering</i> , 2014 , 67, 555-563	10	146
54	Improvement in concrete resistance against water and chloride ingress by adding graphene nanoplatelet. <i>Cement and Concrete Research</i> , 2016 , 83, 114-123	10.3	140
53	Mechanics-based statistics of failure risk of quasibrittle structures and size effect on safety factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 9434-9	11.5	77
52	Biochar-mortar composite: Manufacturing, evaluation of physical properties and economic viability. <i>Construction and Building Materials</i> , 2018 , 167, 874-889	6.7	73
51	Waste Valorisation using biochar for cement replacement and internal curing in ultra-high performance concrete. <i>Journal of Cleaner Production</i> , 2019 , 238, 117876	10.3	65
50	Dispersion and stability of graphene nanoplatelet in water and its influence on cement composites. <i>Construction and Building Materials</i> , 2018 , 167, 403-413	6.7	63
49	Implementation of self-healing in concrete [Proof of concept]. <i>IES Journal Part A: Civil and Structural Engineering</i> , 2009 , 2, 116-125		57
48	Value-added utilization of marine clay as cement replacement for sustainable concrete production. <i>Journal of Cleaner Production</i> , 2018 , 198, 867-873	10.3	51
47	Energetic-statistical size effect simulated by SFEM with stratified sampling and crack band model. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 71, 1297-1320	2.4	44
46	Effect of biochar on mechanical and permeability properties of concrete exposed to elevated temperature. <i>Construction and Building Materials</i> , 2020 , 234, 117338	6.7	43
45	Lightweight structural cement composites with expanded polystyrene (EPS) for enhanced thermal insulation. <i>Cement and Concrete Composites</i> , 2019 , 102, 185-197	8.6	41
44	High performance cement composites with colloidal nano-silica. <i>Construction and Building Materials</i> , 2019 , 224, 317-325	6.7	36
43	High-performance concrete incorporating calcined kaolin clay and limestone as cement substitute. <i>Construction and Building Materials</i> , 2020 , 264, 120152	6.7	32
42	Statistics of strength of ceramics: finite weakest-link model and necessity of zero threshold. <i>International Journal of Fracture</i> , 2008 , 154, 131-145	2.3	27
41	Durability and microstructural properties of concrete with recycled brick as fine aggregates. <i>Construction and Building Materials</i> , 2020 , 262, 120032	6.7	22

40	Smart multifunctional cement mortar containing graphite nanoplatelet 2013 ,		20
39	A screw dislocation interacting with a coated nano-inhomogeneity incorporating interface stress. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2762-2775	5.3	19
38	The influence of thermal residual stresses and thermal generated dislocation on the mechanical response of particulate-reinforced metal matrix nanocomposites. <i>Composites Part B: Engineering</i> , 2015 , 83, 105-116	10	18
37	5S Multifunctional Intelligent Coating with Superdurable, Superhydrophobic, Self-Monitoring, Self-Heating, and Self-Healing Properties for Existing Construction Application. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29242-29254	9.5	17
36	The interpenetration polymer network in a cement paste/waterborne epoxy system. <i>Cement and Concrete Research</i> , 2021 , 139, 106236	10.3	16
35	Effects of particle arrangement and particle damage on the mechanical response of metal matrix nanocomposites: A numerical analysis. <i>Acta Materialia</i> , 2012 , 60, 8-21	8.4	15
34	Performance of mortar incorporating calcined marine clays with varying kaolinite content. <i>Journal of Cleaner Production</i> , 2021 , 282, 124513	10.3	15
33	Axial load resistance of grouted sleeve connection for modular construction. <i>Thin-Walled Structures</i> , 2020 , 154, 106883	4.7	14
32	Experimental investigation of a DfD moment-resisting beam-column connection. <i>Engineering Structures</i> , 2013 , 56, 1676-1683	4.7	14
31	Cellular cement composites against projectile impact. <i>International Journal of Impact Engineering</i> , 2015 , 86, 13-26	4	13
30	Fundamental solutions to Hertzian contact problems at nanoscale. <i>Acta Mechanica</i> , 2013 , 224, 109-121	2.1	13
29	Discrete dislocation analysis of the mechanical response of silicon carbide reinforced aluminum nanocomposites. <i>Composites Part B: Engineering</i> , 2011 , 42, 92-98	10	12
28	Strain and damage self-sensing cement composites with conductive graphene nanoplatelet 2014 ,		11
27	Marine clay in ultra-high performance concrete for filler substitution. <i>Construction and Building Materials</i> , 2020 , 263, 120250	6.7	11
26	Dual waste utilization in ultra-high performance concrete using biochar and marine clay. <i>Cement and Concrete Composites</i> , 2021 , 120, 104049	8.6	11
25	Mechanical Response and Strain Sensing of Cement Composites Added with Graphene Nanoplatelet Under Tension 2015 , 377-382		10
24	Impact behaviour and design optimization of a ductile scale-cellular composite structure for protection against localized impact. <i>International Journal of Solids and Structures</i> , 2017 , 122-123, 162-174 ¹		9
23	Effect of Colloidal Nano-Silica on the Mechanical and Durability Performances of Mortar. <i>Key Engineering Materials</i> , 2014 , 629-630, 443-448	0.4	9

22	Functionally layered cement composites against projectile impact. <i>International Journal of Impact Engineering</i> , 2019 , 133, 103338	4	8
21	Application of Sterculia foetida petiole wastes in lightweight pervious concrete. <i>Journal of Cleaner Production</i> , 2020 , 246, 118972	10.3	8
20	Hydration, strength and microstructure evaluation of eco-friendly mortar containing waste marine clay. <i>Journal of Cleaner Production</i> , 2020 , 272, 122784	10.3	8
19	A two-scale computational model for thermomechanical analysis of reinforced concrete frames. <i>Engineering Structures</i> , 2015 , 105, 137-151	4.7	7
18	Experimental study of grouted sleeve connections under bending for steel modular buildings. <i>Engineering Structures</i> , 2021 , 243, 112614	4.7	7
17	Transport of Water and Chloride Ion in Cement Composites Modified with Graphene Nanoplatelet. <i>Key Engineering Materials</i> , 2014 , 629-630, 162-167	0.4	6
16	Fish scale-cellular composite system for protection against low-velocity impact. <i>Composite Structures</i> , 2016 , 145, 217-225	5.3	6
15	Robustness of Prefabricated Prefinished Volumetric Construction (PPVC) High-rise Building		5
14	Parameter Sensitivity in Numerical Modelling of Ice-Structure Interaction With Cohesive Element Method 2016 ,		4
13	Carbon capture in ultra-high performance concrete using pressurized CO ₂ curing. <i>Construction and Building Materials</i> , 2021 , 288, 123076	6.7	4
12	Effects of Interphase Regions of Particulate-Reinforced Metal Matrix Nanocomposites Using a Discrete Dislocation Plasticity Model. <i>Journal of Nanomechanics & Micromechanics</i> , 2015 , 5, 04014002		3
11	Tailoring Anti-Impact Properties of Ultra-High Performance Concrete by Incorporating Functionalized Carbon Nanotubes. <i>Engineering</i> , 2021 ,	9.7	3
10	Research on the toughening mechanism of modified nano-silica and silane molecular cages in the multi-scale microfracture of cement-epoxy composite. <i>Cement and Concrete Composites</i> , 2021 , 119, 104027	8.6	3
9	Quaternary blended limestone-calcined clay cement concrete incorporating fly ash. <i>Cement and Concrete Composites</i> , 2021 , 123, 104174	8.6	3
8	Pore structure characteristics of concrete composites with surface-modified carbon nanotubes. <i>Cement and Concrete Composites</i> , 2022 , 128, 104453	8.6	3
7	On the Flexural Failure of Thick Ice Against Sloping Structures. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2017 , 139,	1.5	2
6	Robustness of inter-module connections and steel modular buildings under column loss scenarios. <i>Journal of Building Engineering</i> , 2022 , 47, 103888	5.2	2
5	Long-Term Influence of Nanosilica on the Microstructures, Strength, and Durability of High-Volume Fly Ash Mortar. <i>Journal of Materials in Civil Engineering</i> , 2021 , 33, 04021185	3	2

4	Does representative volume element exist for quasi-brittle composites?. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7757-7767	5.3	1
3	Optimizing lightweight expanded clay aggregate coating for enhanced strength and chloride resistance. <i>Construction and Building Materials</i> , 2022 , 321, 126380	6.7	1
2	Potential of Marine Clay for Cement Replacement and Pozzolanic Additive in Concrete. <i>RILEM Bookseries</i> , 2020 , 57-65	0.5	1
1	Sewage sludge ash-based mortar as construction material: Mechanical studies, macrofouling, and marine toxicity.. <i>Science of the Total Environment</i> , 2022 , 153768	10.2	0