

Wen Hui Duan

List of Publications by Year in descending order

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201
papers

11,020
citations

25034

57
h-index

34986

98
g-index

204
all docs

204
docs citations

204
times ranked

6455
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties and microstructure of a graphene oxide-cement composite. <i>Cement and Concrete Composites</i> , 2015, 58, 140-147.	10.7	623
2	Nano reinforced cement and concrete composites and new perspective from graphene oxide. <i>Construction and Building Materials</i> , 2014, 73, 113-124.	7.2	548
3	The influences of admixtures on the dispersion, workability, and strength of carbon nanotube-OPC paste mixtures. <i>Cement and Concrete Composites</i> , 2012, 34, 201-207.	10.7	358
4	Calibration of nonlocal scaling effect parameter for free vibration of carbon nanotubes by molecular dynamics. <i>Journal of Applied Physics</i> , 2007, 101, 024305.	2.5	327
5	Reinforcing Effects of Graphene Oxide on Portland Cement Paste. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	2.9	323
6	Incorporating graphene oxide in cement composites: A study of transport properties. <i>Construction and Building Materials</i> , 2015, 84, 341-347.	7.2	298
7	Graphene-based nanosheets for stronger and more durable concrete: A review. <i>Construction and Building Materials</i> , 2018, 183, 642-660.	7.2	252
8	Effects of graphene oxide agglomerates on workability, hydration, microstructure and compressive strength of cement paste. <i>Construction and Building Materials</i> , 2017, 145, 402-410.	7.2	248
9	Incorporation of graphene oxide and silica fume into cement paste: A study of dispersion and compressive strength. <i>Construction and Building Materials</i> , 2016, 123, 327-335.	7.2	235
10	Effect of ultrasonication energy on engineering properties of carbon nanotube reinforced cement pastes. <i>Carbon</i> , 2015, 85, 212-220.	10.3	233
11	Effects of graphene oxide on early-age hydration and electrical resistivity of Portland cement paste. <i>Construction and Building Materials</i> , 2017, 136, 506-514.	7.2	230
12	Exact solutions for axisymmetric bending of micro/nanoscale circular plates based on nonlocal plate theory. <i>Nanotechnology</i> , 2007, 18, 385704.	2.6	173
13	Effects of nano-particles on failure process and microstructural properties of recycled aggregate concrete. <i>Construction and Building Materials</i> , 2017, 142, 42-50.	7.2	167
14	Investigation on dispersion of graphene oxide in cement composite using different surfactant treatments. <i>Construction and Building Materials</i> , 2018, 161, 519-527.	7.2	167
15	Dispersion of carbon nanotubes with SDS surfactants: a study from a binding energy perspective. <i>Chemical Science</i> , 2011, 2, 1407.	7.4	166
16	Effects of graphene oxide aggregates on hydration degree, sorptivity, and tensile splitting strength of cement paste. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 100, 1-8.	7.6	157
17	Bond characteristics between ultra high modulus CFRP laminates and steel. <i>Thin-Walled Structures</i> , 2012, 51, 147-157.	5.3	154
18	Effect of very fine particles on workability and strength of concrete made with dune sand. <i>Construction and Building Materials</i> , 2013, 47, 131-137.	7.2	146

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19	Review of recent research and developments on floating breakwaters. <i>Ocean Engineering</i> , 2018, 158, 132-151.	4.3	137
20	Effects of nanoparticle on the dynamic behaviors of recycled aggregate concrete under impact loading. <i>Materials and Design</i> , 2016, 112, 58-66.	7.0	136
21	A review of dispersion of nanoparticles in cementitious matrices: Nanoparticle geometry perspective. <i>Construction and Building Materials</i> , 2017, 153, 346-357.	7.2	133
22	Influence of ultrasonication on the dispersion and enhancing effect of graphene oxide-carbon nanotube hybrid nanoreinforcement in cementitious composite. <i>Composites Part B: Engineering</i> , 2019, 164, 45-53.	12.0	128
23	Assessment of continuum mechanics models in predicting buckling strains of single-walled carbon nanotubes. <i>Nanotechnology</i> , 2009, 20, 395707.	2.6	113
24	Applications of Piezoelectric Materials in Structural Health Monitoring and Repair: Selected Research Examples. <i>Materials</i> , 2010, 3, 5169-5194.	2.9	113
25	Graphene Oxide Impact on Hardened Cement Expressed in Enhanced Freeze-Thaw Resistance. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	2.9	113
26	Dispersion of graphene oxide agglomerates in cement paste and its effects on electrical resistivity and flexural strength. <i>Cement and Concrete Composites</i> , 2018, 92, 145-154.	10.7	106
27	Effects of Nanoalumina and Graphene Oxide on Early-Age Hydration and Mechanical Properties of Cement Paste. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	2.9	103
28	Development of granular expanded perlite/paraffin phase change material composites and prevention of leakage. <i>Solar Energy</i> , 2016, 137, 179-188.	6.1	100
29	Controlling the formation of wrinkles in a single layer graphene sheet subjected to in-plane shear. <i>Carbon</i> , 2011, 49, 3107-3112.	10.3	98
30	Strain Relaxation of Monolayer WS ₂ on Plastic Substrate. <i>Advanced Functional Materials</i> , 2016, 26, 8707-8714.	14.9	97
31	Molecular mechanics modeling of carbon nanotube fracture. <i>Carbon</i> , 2007, 45, 1769-1776.	10.3	96
32	Carbon nanotube-cement composites: A retrospect. <i>IES Journal Part A: Civil and Structural Engineering</i> , 2011, 4, 254-265.	0.4	96
33	Influence of Nanolimestone on the Hydration, Mechanical Strength, and Autogenous Shrinkage of Ultrahigh-Performance Concrete. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	2.9	96
34	Detection of gas atoms via vibration of graphenes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 2411-2415.	2.1	90
35	Early-age shrinkage development of ultra-high-performance concrete under heat curing treatment. <i>Construction and Building Materials</i> , 2017, 131, 767-774.	7.2	89
36	The properties of fly ash based geopolymer mortars made with dune sand. <i>Materials and Design</i> , 2016, 92, 571-578.	7.0	88

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37	Nonlinear bending and stretching of a circular graphene sheet under a central point load. <i>Nanotechnology</i> , 2009, 20, 075702.	2.6	86
38	Free vibration analysis of piezoelectric coupled thin and thick annular plate. <i>Journal of Sound and Vibration</i> , 2005, 281, 119-139.	3.9	82
39	Noncontact cable force estimation with unmanned aerial vehicle and computer vision. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 73-88.	9.8	81
40	Free vibration of nanorings/arches based on nonlocal elasticity. <i>Journal of Applied Physics</i> , 2008, 104, 014303.	2.5	80
41	Reinforcing mechanism of graphene at atomic level: Friction, crack surface adhesion and 2D geometry. <i>Carbon</i> , 2017, 114, 557-565.	10.3	78
42	Predicting the influence of ultrasonication energy on the reinforcing efficiency of carbon nanotubes. <i>Carbon</i> , 2014, 77, 1-10.	10.3	76
43	Water Transport with a Carbon Nanotube Pump. <i>ACS Nano</i> , 2010, 4, 2338-2344.	14.6	75
44	Effect of fatigue loading on the bond behaviour between UHM CFRP plates and steel plates. <i>Composites Part B: Engineering</i> , 2013, 50, 344-353.	12.0	75
45	Mechanical behavior of recycled aggregate concrete-filled steel tube stub columns after exposure to elevated temperatures. <i>Construction and Building Materials</i> , 2017, 146, 571-581.	7.2	75
46	Direct Observation of 2D Electrostatics and Ohmic Contacts in Template-Grown Graphene/WS ₂ Heterostructures. <i>ACS Nano</i> , 2017, 11, 2785-2793.	14.6	74
47	Crumb waste tire rubber surface modification by plasma polymerization of ethanol and its application on oil-well cement. <i>Applied Surface Science</i> , 2017, 409, 325-342.	6.1	72
48	Guided waves for damage identification in pipeline structures: A review. <i>Structural Control and Health Monitoring</i> , 2017, 24, e2007.	4.0	72
49	Dispersion of graphene oxide-silica nanohybrids in alkaline environment for improving ordinary Portland cement composites. <i>Cement and Concrete Composites</i> , 2020, 106, 103488.	10.7	71
50	Effect of carbon nanotube modified epoxy adhesive on CFRP-to-steel interface. <i>Composites Part B: Engineering</i> , 2015, 79, 95-104.	12.0	70
51	Inelastic buckling of carbon nanotubes. <i>Applied Physics Letters</i> , 2007, 90, 033110.	3.3	68
52	Fatigue Tests of Cracked Steel Plates Strengthened with UHM CFRP Plates. <i>Advances in Structural Engineering</i> , 2012, 15, 1801-1815.	2.4	68
53	Calibration of Eringen's small length scale coefficient for initially stressed vibrating nonlocal Euler beams based on microstructured beam model. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 345501.	2.8	67
54	Hencky Bar-Chain Model for Buckling and Vibration of Beams with Elastic End Restraints. <i>International Journal of Structural Stability and Dynamics</i> , 2015, 15, 1540007.	2.4	65

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55	Reinforcing brittle and ductile epoxy matrices using carbon nanotubes masterbatch. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 61, 126-133.	7.6	64
56	Improvement of mechanical properties by incorporating graphene oxide into cement mortar. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 1313-1322.	2.6	64
57	Exact Solution for Buckling of Columns Including Self-Weight. <i>Journal of Engineering Mechanics - ASCE</i> , 2008, 134, 116-119.	2.9	58
58	Fly ash-based boroaluminosilicate geopolymers: Experimental and molecular simulations. <i>Ceramics International</i> , 2017, 43, 4119-4126.	4.8	57
59	Reinforcement effects of polyvinyl alcohol and polypropylene fibers on flexural behaviors of sulfoaluminate cement matrices. <i>Cement and Concrete Composites</i> , 2018, 88, 139-149.	10.7	57
60	Properties of one-part fly ash/slag-based binders activated by thermally-treated waste glass/NaOH blends: A comparative study. <i>Cement and Concrete Composites</i> , 2020, 112, 103679.	10.7	56
61	Exfoliation and dispersion of boron nitride nanosheets to enhance ordinary Portland cement paste. <i>Nanoscale</i> , 2018, 10, 1004-1014.	5.6	55
62	The effects of graphene oxide-silica nanohybrids on the workability, hydration, and mechanical properties of Portland cement paste. <i>Construction and Building Materials</i> , 2021, 266, 121016.	7.2	52
63	Distribution of carbon nanotubes in fresh ordinary Portland cement pastes: understanding from a two-phase perspective. <i>RSC Advances</i> , 2016, 6, 5745-5753.	3.6	50
64	Mechanical behavior of geopolymer concrete subjected to high strain rate compressive loadings. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 671-681.	3.1	48
65	Development of analytical vibration solutions for microstructured beam model to calibrate length scale coefficient in nonlocal Timoshenko beams. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	47
66	Methylcellulose stabilized multi-walled carbon nanotubes dispersion for sustainable cement composites. <i>Construction and Building Materials</i> , 2017, 146, 76-85.	7.2	47
67	Quantitative microstructural characterisation of Portland cement-carbon nanotube composites using electron and x-ray microscopy. <i>Cement and Concrete Research</i> , 2019, 123, 105767.	11.0	47
68	Design of GFRP-reinforced rectangular concrete columns under eccentric axial loading. <i>Magazine of Concrete Research</i> , 2017, 69, 865-877.	2.0	45
69	Graphene oxide-coated Poly(vinyl alcohol) fibers for enhanced fiber-reinforced cementitious composites. <i>Composites Part B: Engineering</i> , 2019, 174, 107010.	12.0	45
70	Effects of carbon nanotubes on the early-age hydration kinetics of Portland cement using isothermal calorimetry. <i>Cement and Concrete Composites</i> , 2021, 119, 103994.	10.7	44
71	Integration of form-stable paraffin/nanosilica phase change material composites into vacuum insulation panels for thermal energy storage. <i>Applied Energy</i> , 2015, 159, 601-609.	10.1	43
72	Effect of strain rate on splitting tensile strength of geopolymer concrete. <i>Magazine of Concrete Research</i> , 2014, 66, 825-835.	2.0	42

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73	Impact performances of steel tube-confined recycled aggregate concrete (STCRAC) after exposure to elevated temperatures. <i>Cement and Concrete Composites</i> , 2018, 86, 87-97.	10.7	42
74	Experimental study on dynamic compressive behavior of steel fiber reinforced concrete at elevated temperatures. <i>Construction and Building Materials</i> , 2019, 210, 673-684.	7.2	42
75	Failure of CFRP-to-steel double strap joint bonded using carbon nanotubes modified epoxy adhesive at moderately elevated temperatures. <i>Composites Part B: Engineering</i> , 2016, 94, 95-101.	12.0	40
76	Pore shape analysis using centrifuge driven metal intrusion: Indication on porosimetry equations, hydration and packing. <i>Construction and Building Materials</i> , 2017, 154, 95-104.	7.2	40
77	Effects of microstructure and pore water on electrical conductivity of cement slurry during early hydration. <i>Composites Part B: Engineering</i> , 2019, 177, 107435.	12.0	40
78	Intelligent robotic systems for structural health monitoring: Applications and future trends. <i>Automation in Construction</i> , 2022, 139, 104273.	9.8	40
79	Modeling of the mechanical instability of carbon nanotubes. <i>Carbon</i> , 2008, 46, 285-290.	10.3	39
80	On boundary conditions for buckling and vibration of nonlocal beams. <i>European Journal of Mechanics, A/Solids</i> , 2017, 61, 73-81.	3.7	39
81	Axisymmetric transverse vibrations of circular cylindrical shells with variable thickness. <i>Journal of Sound and Vibration</i> , 2008, 317, 1035-1041.	3.9	38
82	Experimental and numerical studies on impact behaviors of recycled aggregate concrete-filled steel tube after exposure to elevated temperature. <i>Materials and Design</i> , 2017, 136, 103-118.	7.0	38
83	Degradation of high molecular weight polyacrylamide by alkali-activated persulfate: Reactivity and potential application in filter cake removal before cementing. <i>Journal of Petroleum Science and Engineering</i> , 2019, 174, 70-79.	4.2	38
84	Repair of notched beam under dynamic load using piezoelectric patch. <i>International Journal of Mechanical Sciences</i> , 2004, 46, 1517-1533.	6.7	37
85	Optimizing the degree of carbon nanotube dispersion in a solvent for producing reinforced epoxy matrices. <i>Powder Technology</i> , 2015, 284, 541-550.	4.2	37
86	Agglomeration process of surfactant-dispersed carbon nanotubes in unstable dispersion: A two-stage agglomeration model and experimental evidence. <i>Powder Technology</i> , 2016, 301, 412-420.	4.2	37
87	Tunable wrinkling pattern in annular graphene under circular shearing at inner edge. <i>Nanoscale</i> , 2012, 4, 5077.	5.6	35
88	Graphene-based modification on the interface in fibre reinforced cementitious composites for improving both strength and toughness. <i>Carbon</i> , 2020, 170, 493-502.	10.3	35
89	Extensive use of waste glass in one-part alkali-activated materials: Towards sustainable construction practices. <i>Waste Management</i> , 2021, 130, 1-11.	7.4	34
90	EXAMINATION OF CYLINDRICAL SHELL THEORIES FOR BUCKLING OF CARBON NANOTUBES. <i>International Journal of Structural Stability and Dynamics</i> , 2011, 11, 1035-1058.	2.4	33

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91	Analysis of interfacial nanostructure and interaction mechanisms between cellulose fibres and calcium silicate hydrates using experimental and molecular dynamics simulation data. <i>Applied Surface Science</i> , 2020, 506, 144914.	6.1	33
92	Fatigue tests on steel plates with longitudinal weld attachment strengthened by ultra high modulus carbon fibre reinforced polymer plate. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 1027-1038.	3.4	31
93	Improvement of mechanical properties of concrete canvas by anhydrite-modified calcium sulfoaluminate cement. <i>Journal of Composite Materials</i> , 2016, 50, 1937-1950.	2.4	31
94	Coupled effect of CO ₂ attack and tensile stress on well cement under CO ₂ storage conditions. <i>Construction and Building Materials</i> , 2017, 130, 92-102.	7.2	31
95	Numerical modelling of plastic damage response and crack propagation in RAC under uniaxial loading. <i>Magazine of Concrete Research</i> , 2018, 70, 459-472.	2.0	31
96	A new scheme for analysis of pore characteristics using centrifuge driven non-toxic metal intrusion. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2016, 2, 173-182.	2.9	30
97	Design of low-density cement optimized by cellulose-based fibre for oil and natural gas wells. <i>Powder Technology</i> , 2018, 338, 506-518.	4.2	30
98	Damping and microstructure of fly ash-based geopolymers. <i>Journal of Materials Science</i> , 2013, 48, 3128-3137.	3.7	28
99	The role of alumina on performance of alkali-activated slag paste exposed to 50°C. <i>Cement and Concrete Research</i> , 2013, 54, 143-150.	11.0	28
100	Reliable Synthesis of Large Area Monolayer WS ₂ Single Crystals, Films, and Heterostructures with Extraordinary Photoluminescence Induced by Water Intercalation. <i>Advanced Optical Materials</i> , 2018, 6, 1701347.	7.3	28
101	Dynamic responses of bridge embankment transitions in high speed railway: Field tests and data analyses. <i>Engineering Structures</i> , 2018, 175, 565-576.	5.3	28
102	Quasi-static combined compression-shear crushing of honeycombs: An experimental study. <i>Materials and Design</i> , 2019, 167, 107632.	7.0	28
103	Graphene oxide-coated sand for improving performance of cement composites. <i>Cement and Concrete Composites</i> , 2021, 124, 104279.	10.7	28
104	Role of Multiwalled Carbon Nanotubes as Shear Reinforcing Nanopins in Quasi-Brittle Matrices. <i>ACS Applied Nano Materials</i> , 2018, 1, 1731-1740.	5.0	27
105	Modeling of fracture of carbon nanotubes with vacancy defect. <i>Physical Review B</i> , 2007, 75, .	3.2	26
106	Design rules for web crippling of CFRP strengthened aluminium rectangular hollow sections. <i>Thin-Walled Structures</i> , 2011, 49, 1195-1207.	5.3	26
107	Finite element solution for intermittent-contact problem with piezoelectric actuation in ring type USM. <i>Finite Elements in Analysis and Design</i> , 2007, 43, 193-205.	3.2	25
108	New approach for characterisation of mechanical properties of cement paste at micrometre scale. <i>Materials and Design</i> , 2015, 87, 992-995.	7.0	24

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109	Dynamic increased reinforcing effect of graphene oxide on cementitious nanocomposite. <i>Construction and Building Materials</i> , 2019, 206, 694-702.	7.2	23
110	Finite element analysis of the piezoelectric-based repair of a delaminated beam. <i>Smart Materials and Structures</i> , 2008, 17, 015017.	3.5	22
111	Deflection distribution estimation of tied-arch bridges using long-gauge strain measurements. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2119.	4.0	22
112	Damage evolution of cement mortar with high volume slag exposed to sulfate attack. <i>Construction and Building Materials</i> , 2020, 247, 118626.	7.2	22
113	Antifoaming effect of graphene oxide nanosheets in polymer-modified cement composites for enhanced microstructure and mechanical performance. <i>Cement and Concrete Research</i> , 2022, 158, 106843.	11.0	22
114	Generalized hypergeometric function solutions for transverse vibration of a class of non-uniform annular plates. <i>Journal of Sound and Vibration</i> , 2005, 287, 785-807.	3.9	21
115	Transformation of pore structure in consolidated silty clay: New insights from quantitative pore profile analysis. <i>Construction and Building Materials</i> , 2018, 186, 615-625.	7.2	21
116	Molecular simulation of water and chloride ion diffusion in nanopores of alkali-activated aluminosilicate structures. <i>Ceramics International</i> , 2018, 44, 20723-20731.	4.8	20
117	Microstructure of graphene oxide-silica-reinforced OPC composites: Image-based characterization and nano-identification through deep learning. <i>Cement and Concrete Research</i> , 2022, 154, 106737.	11.0	20
118	The coupled reaction and crystal growth mechanism of tricalcium silicate (C3S): An experimental study for carbon dioxide geo-sequestration wells. <i>Construction and Building Materials</i> , 2018, 187, 1286-1294.	7.2	19
119	Controlled growth and ordering of poorly-crystalline calcium-silicate-hydrate nanosheets. <i>Communications Materials</i> , 2021, 2, .	6.9	19
120	Effective strategies to realize high-performance graphene-reinforced cement composites. <i>Construction and Building Materials</i> , 2022, 324, 126636.	7.2	19
121	A novel ring type ultrasonic motor with multiple wavenumbers: design, fabrication and characterization. <i>Smart Materials and Structures</i> , 2009, 18, 125025.	3.5	17
122	Uniformly sampled genetic algorithm with gradient search for structural identification – Part I: Global search. <i>Computers and Structures</i> , 2010, 88, 949-962.	4.4	17
123	IMPROVED END BEARING CAPACITIES OF SHARP-CORNER ALUMINUM TUBULAR SECTIONS WITH CFRP STRENGTHENING. <i>International Journal of Structural Stability and Dynamics</i> , 2012, 12, 109-130.	2.4	17
124	Integrally hydrophobic cementitious composites made with waste amorphous carbon powder. <i>Construction and Building Materials</i> , 2020, 233, 117238.	7.2	17
125	Structural damage detection using enhanced damage locating vector method with limited wireless sensors. <i>Journal of Sound and Vibration</i> , 2009, 328, 411-427.	3.9	16
126	Zeolitic imidazolate framework nanoleaves (ZIF-L) enhancement of strength and durability of portland cement composites. <i>Construction and Building Materials</i> , 2021, 272, 122015.	7.2	16

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127	Modification of fundamental vibration modes of circular plates with free edges. <i>Journal of Sound and Vibration</i> , 2008, 317, 709-715.	3.9	15
128	Effect of Graphene Oxide on the Pore Structure of Cement Paste: Implications for Performance Enhancement. <i>ACS Applied Nano Materials</i> , 2021, 4, 10623-10633.	5.0	15
129	A century of research on calcium silicate hydrate (C-S-H): Leaping from structural characterization to nanoengineering. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3081-3099.	3.8	15
130	Transition and Stability of Copolymer Adsorption Morphologies on the Surface of Carbon Nanotubes and Implications on Their Dispersion. <i>Langmuir</i> , 2014, 30, 10035-10042.	3.5	14
131	Effects of mineral admixtures and lime on disintegration of alkali-activated slag exposed to 50°C. <i>Construction and Building Materials</i> , 2014, 70, 254-261.	7.2	14
132	Uniformly sampled genetic algorithm with gradient search for structural identification – Part II: Local search. <i>Computers and Structures</i> , 2010, 88, 1149-1161.	4.4	13
133	Using graphene oxide to improve physical property and control ASR expansion of cement mortar. <i>Construction and Building Materials</i> , 2021, 307, 125006.	7.2	13
134	Modeling the Instability of Carbon Nanotubes: From Continuum Mechanics to Molecular Dynamics. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2010, 1, .	0.8	12
135	Effects of CFRP bond locations on the Mode I stress intensity factor of centre-cracked tensile steel plates. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 154-167.	3.4	12
136	MODE I STRESS INTENSITY FACTOR OF CENTER-CRACKED TENSILE STEEL PLATES WITH CFRP REINFORCEMENT. <i>International Journal of Structural Stability and Dynamics</i> , 2013, 13, 1350005.	2.4	12
137	Self-healing mechanism of Zn-enhanced cement stone: An application for sour natural gas field. <i>Construction and Building Materials</i> , 2019, 227, 116651.	7.2	12
138	Graphene oxide-reinforced thin shells for high-performance, lightweight cement composites. <i>Composites Part B: Engineering</i> , 2022, 235, 109796.	12.0	12
139	Collision of a suddenly released bent carbon nanotube with a circular graphene sheet. <i>Journal of Applied Physics</i> , 2010, 107, 074303.	2.5	11
140	Degradation of VIP barrier envelopes exposed to alkaline solution at different temperatures. <i>Energy and Buildings</i> , 2015, 93, 208-216.	6.7	11
141	Influence of potassium titanate whisker on the mechanical properties and microstructure of calcium aluminate cement for <i>in situ</i> combustion. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 343-358.	2.6	10
142	Graphene Oxide-Based Mesoporous Calcium Silicate Hydrate Sandwich-like Structure: Synthesis and Application for Thermal Energy Storage. <i>ACS Applied Energy Materials</i> , 2022, 5, 958-969.	5.1	10
143	A grillage model for predicting wrinkles in annular graphene under circular shearing. <i>Journal of Applied Physics</i> , 2013, 113, 014902.	2.5	9
144	Effects of Ammonium Hydrolyzed Polyacrylonitrile on Oil-Well Cement Slurry. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, 04017090.	2.9	9

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145	Evolution of silicate structure during corrosion of tricalcium silicate (C3S) and dicalcium silicate (C2S) with hydrogen sulphide (H ₂ S). <i>Corrosion Science</i> , 2020, 163, 108301.	6.6	9
146	Theoretical modelling of soft robotic gripper with bioinspired fibrillar adhesives. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 2250-2266.	2.6	9
147	Digital concrete modelling: An alternative approach to microstructural pore analysis of cement hydrates. <i>Construction and Building Materials</i> , 2021, 303, 124558.	7.2	9
148	Mechanisms of dispersion of nanoparticle-decorated graphene oxide nanosheets in aqueous media: Experimental and molecular dynamics simulation study. <i>Carbon</i> , 2021, 184, 689-697.	10.3	9
149	Evolution of tricalcium silicate (C3S) hydration based on image analysis of microstructural observations obtained via Field's metal intrusion. <i>Materials Characterization</i> , 2021, 181, 111457.	4.4	9
150	Crystallization of tricalcium silicate blended with different silica powder dosages at high temperature. <i>Construction and Building Materials</i> , 2022, 316, 125884.	7.2	9
151	Role of nanofillers for high mechanical performance cementitious composites. <i>Construction and Building Materials</i> , 2022, 322, 126489.	7.2	9
152	Finite element analysis of a ring type ultrasonic motor. , 2005, , .		8
153	Bond Characterization of Steel-CFRP with Carbon Nanotube Modified Epoxy Adhesive via Pull-off Tests. <i>International Journal of Structural Stability and Dynamics</i> , 2015, 15, 1540027.	2.4	8
154	Towards microstructure-based analysis and design for seepage water in underground engineering: Effect of image characteristics. <i>Tunnelling and Underground Space Technology</i> , 2019, 93, 103086.	6.2	8
155	An improved deflection model for FRP RC beams using an artificial intelligence-based approach. <i>Engineering Structures</i> , 2020, 219, 110793.	5.3	8
156	Early age properties of alkali-activated cement and class G cement under different saturation conditions in oil well applications. <i>Construction and Building Materials</i> , 2021, 271, 121543.	7.2	8
157	Graphene kirigami membrane with superior theoretical permeability and adjustable selection capability. <i>Carbon</i> , 2021, 181, 398-407.	10.3	8
158	Predicting the permeability of consolidated silty clay via digital soil reconstruction. <i>Computers and Geotechnics</i> , 2021, 140, 104468.	4.7	8
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