

# H K Lee

## List of Publications by Year in descending order

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173  
papers

8,969  
citations

38742

50  
h-index

51608

86  
g-index

175  
all docs

175  
docs citations

175  
times ranked

5286  
citing authors

#	ARTICLE	IF	CITATIONS
1	Setting and mechanical properties of alkali-activated fly ash/slag concrete manufactured at room temperature. <i>Construction and Building Materials</i> , 2013, 47, 1201-1209.	7.2	493
2	Shrinkage characteristics of alkali-activated fly ash/slag paste and mortar at early ages. <i>Cement and Concrete Composites</i> , 2014, 53, 239-248.	10.7	309
3	Enhanced effect of carbon nanotube on mechanical and electrical properties of cement composites by incorporation of silica fume. <i>Composite Structures</i> , 2014, 107, 60-69.	5.8	280
4	Fresh and hardened properties of alkali-activated fly ash/slag pastes with superplasticizers. <i>Construction and Building Materials</i> , 2014, 50, 169-176.	7.2	243
5	Workability, and mechanical, acoustic and thermal properties of lightweight aggregate concrete with a high volume of entrained air. <i>Construction and Building Materials</i> , 2012, 29, 193-200.	7.2	235
6	Microstructural densification and CO <sub>2</sub> uptake promoted by the carbonation curing of belite-rich Portland cement. <i>Cement and Concrete Research</i> , 2016, 82, 50-57.	11.0	220
7	Review on recent advances in CO <sub>2</sub> utilization and sequestration technologies in cement-based materials. <i>Construction and Building Materials</i> , 2016, 127, 762-773.	7.2	209
8	Autogenous shrinkage of concrete containing granulated blast-furnace slag. <i>Cement and Concrete Research</i> , 2006, 36, 1279-1285.	11.0	206
9	Use of power plant bottom ash as fine and coarse aggregates in high-strength concrete. <i>Construction and Building Materials</i> , 2011, 25, 1115-1122.	7.2	204
10	Reactivity and reaction products of alkali-activated, fly ash/slag paste. <i>Construction and Building Materials</i> , 2015, 81, 303-312.	7.2	192
11	Improved piezoresistive sensitivity and stability of CNT/cement mortar composites with low water/binder ratio. <i>Composite Structures</i> , 2014, 116, 713-719.	5.8	178
12	Influence of the slag content on the chloride and sulfuric acid resistances of alkali-activated fly ash/slag paste. <i>Cement and Concrete Composites</i> , 2016, 72, 168-179.	10.7	176
13	Physicochemical properties of binder gel in alkali-activated fly ash/slag exposed to high temperatures. <i>Cement and Concrete Research</i> , 2016, 89, 72-79.	11.0	155
14	Monitoring the strength development in concrete by EMI sensing technique. <i>Construction and Building Materials</i> , 2010, 24, 1746-1753.	7.2	144
15	Electromagnetic interference shielding/absorbing characteristics of CNT-embedded epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1110-1118.	7.6	128
16	Microbially mediated calcium carbonate precipitation on normal and lightweight concrete. <i>Construction and Building Materials</i> , 2013, 38, 1073-1082.	7.2	120
17	Influence of cement flow and aggregate type on the mechanical and acoustic characteristics of porous concrete. <i>Applied Acoustics</i> , 2010, 71, 607-615.	3.3	119
18	Heating and heat-dependent mechanical characteristics of CNT-embedded cementitious composites. <i>Composite Structures</i> , 2016, 136, 162-170.	5.8	110

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19	Influence of silica fume additions on electromagnetic interference shielding effectiveness of multi-walled carbon nanotube/cement composites. <i>Construction and Building Materials</i> , 2012, 30, 480-487.	7.2	109
20	Synthesis of mesoporous geopolymers containing zeolite phases by a hydrothermal treatment. <i>Microporous and Mesoporous Materials</i> , 2016, 229, 22-30.	4.4	105
21	Electromagnetic interference shielding characteristics and shielding effectiveness of polyaniline-coated films. <i>Thin Solid Films</i> , 2011, 519, 3492-3496.	1.8	103
22	A micromechanical damage model for effective elastoplastic behavior of partially debonded ductile matrix composites. <i>International Journal of Solids and Structures</i> , 2001, 38, 6307-6332.	2.7	98
23	Influences of CNT dispersion and pore characteristics on the electrical performance of cementitious composites. <i>Composite Structures</i> , 2017, 164, 32-42.	5.8	96
24	Carbon nanotube (CNT) incorporated cementitious composites for functional construction materials: The state of the art. <i>Composite Structures</i> , 2019, 227, 111244.	5.8	95
25	Synthesis of geopolymer-supported zeolites via robust one-step method and their adsorption potential. <i>Journal of Hazardous Materials</i> , 2018, 353, 522-533.	12.4	90
26	Piezoelectric-based non-destructive monitoring of hydration of reinforced concrete as an indicator of bond development at the steel-concrete interface. <i>Cement and Concrete Research</i> , 2010, 40, 1697-1703.	11.0	88
27	Intrinsic electromagnetic radiation shielding/absorbing characteristics of polyaniline-coated transparent thin films. <i>Synthetic Metals</i> , 2010, 160, 1838-1842.	3.9	84
28	Coal bottom ash in field of civil engineering: A review of advanced applications and environmental considerations. <i>KSCE Journal of Civil Engineering</i> , 2015, 19, 1802-1818.	1.9	83
29	Effect of fly ash characteristics on delayed high-strength development of geopolymers. <i>Construction and Building Materials</i> , 2016, 102, 260-269.	7.2	82
30	Adsorption characteristics of cesium onto mesoporous geopolymers containing nano-crystalline zeolites. <i>Microporous and Mesoporous Materials</i> , 2017, 242, 238-244.	4.4	81
31	A micromechanical damage model for effective elastoplastic behavior of ductile matrix composites considering evolutionary complete particle debonding. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000, 183, 201-222.	6.6	79
32	Electrical characteristics of hierarchical conductive pathways in cementitious composites incorporating CNT and carbon fiber. <i>Cement and Concrete Composites</i> , 2017, 82, 165-175.	10.7	77
33	Flow, water absorption, and mechanical characteristics of normal- and high-strength mortar incorporating fine bottom ash aggregates. <i>Construction and Building Materials</i> , 2012, 26, 249-256.	7.2	75
34	Mechanical properties and setting characteristics of geopolymer mortar using styrene-butadiene (SB) latex. <i>Construction and Building Materials</i> , 2016, 113, 264-272.	7.2	74
35	Utilization of power plant bottom ash as aggregates in fiber-reinforced cellular concrete. <i>Waste Management</i> , 2010, 30, 274-284.	7.4	73
36	Alkali-activated, cementless, controlled low-strength materials (CLSM) utilizing industrial by-products. <i>Construction and Building Materials</i> , 2013, 49, 738-746.	7.2	73

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37	Water purification characteristics of pervious concrete fabricated with CSA cement and bottom ash aggregates. <i>Construction and Building Materials</i> , 2017, 136, 1-8.	7.2	70
38	A novel eco-friendly porous concrete fabricated with coal ash and geopolymeric binder: Heavy metal leaching characteristics and compressive strength. <i>Construction and Building Materials</i> , 2015, 79, 173-181.	7.2	69
39	Mechanical properties of lightweight concrete made with coal ashes after exposure to elevated temperatures. <i>Cement and Concrete Composites</i> , 2016, 72, 27-38.	10.7	67
40	Flexural stress and crack sensing capabilities of MWNT/cement composites. <i>Composite Structures</i> , 2017, 175, 86-100.	5.8	67
41	Behavior and performance of RC T-section deep beams externally strengthened in shear with CFRP sheets. <i>Composite Structures</i> , 2011, 93, 911-922.	5.8	66
42	Unlocking the role of MgO in the carbonation of alkali-activated slag cement. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1661-1670.	6.0	66
43	Physical barrier effect of geopolymeric waste form on diffusivity of cesium and strontium. <i>Journal of Hazardous Materials</i> , 2016, 318, 339-346.	12.4	61
44	Effect of nano-silica on hydration and conversion of calcium aluminate cement. <i>Construction and Building Materials</i> , 2018, 169, 819-825.	7.2	59
45	A damage constitutive model of progressive debonding in aligned discontinuous fiber composites. <i>International Journal of Solids and Structures</i> , 2001, 38, 875-895.	2.7	57
46	Improved chloride resistance of high-strength concrete amended with coal bottom ash for internal curing. <i>Construction and Building Materials</i> , 2014, 71, 334-343.	7.2	57
47	Silica aerogel derived from rice husk: an aggregate replacer for lightweight and thermally insulating cement-based composites. <i>Construction and Building Materials</i> , 2019, 195, 312-322.	7.2	57
48	The electrically conductive carbon nanotube (CNT)/cement composites for accelerated curing and thermal cracking reduction. <i>Composite Structures</i> , 2016, 158, 20-29.	5.8	53
49	Micromechanics-based elastic damage modeling of particulate composites with weakened interfaces. <i>International Journal of Solids and Structures</i> , 2007, 44, 8390-8406.	2.7	52
50	Resistance of coal bottom ash mortar against the coupled deterioration of carbonation and chloride penetration. <i>Materials and Design</i> , 2016, 93, 160-167.	7.0	52
51	Resonant frequency range utilized electro-mechanical impedance method for damage detection performance enhancement on composite structures. <i>Composite Structures</i> , 2012, 94, 2383-2389.	5.8	51
52	Hydration kinetics of high-strength concrete with untreated coal bottom ash for internal curing. <i>Cement and Concrete Composites</i> , 2018, 91, 67-75.	10.7	51
53	Synergistic effect of MWNT/fly ash incorporation on the EMI shielding/absorbing characteristics of cementitious materials. <i>Construction and Building Materials</i> , 2016, 115, 651-661.	7.2	50
54	Evolution of the binder gel in carbonation-cured Portland cement in an acidic medium. <i>Cement and Concrete Research</i> , 2018, 109, 81-89.	11.0	49

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55	Effect of superplasticizer type and siliceous materials on the dispersion of carbon nanotube in cementitious composites. <i>Composite Structures</i> , 2018, 185, 264-272.	5.8	49
56	Stable conversion of metastable hydrates in calcium aluminate cement by early carbonation curing. <i>Journal of CO2 Utilization</i> , 2017, 21, 224-226.	6.8	47
57	Internal-curing efficiency of cold-bonded coal bottom ash aggregate for high-strength mortar. <i>Construction and Building Materials</i> , 2016, 126, 1-8.	7.2	46
58	Synergistic effects of carbon nanotubes and carbon fibers on heat generation and electrical characteristics of cementitious composites. <i>Carbon</i> , 2018, 134, 283-292.	10.3	46
59	Autogenous shrinkage and electrical characteristics of cement pastes and mortars with carbon nanotube and carbon fiber. <i>Construction and Building Materials</i> , 2018, 177, 428-435.	7.2	46
60	Modeling of progressive damage in aligned and randomly oriented discontinuous fiber polymer matrix composites. <i>Composites Part B: Engineering</i> , 2000, 31, 77-86.	12.0	45
61	Carbonation of calcium sulfoaluminate cement blended with blast furnace slag. <i>Cement and Concrete Composites</i> , 2021, 118, 103918.	10.7	45
62	Heavy Metal Leaching, CO2 Uptake and Mechanical Characteristics of Carbonated Porous Concrete with Alkali-Activated Slag and Bottom Ash. <i>International Journal of Concrete Structures and Materials</i> , 2015, 9, 283-294.	3.2	44
63	Hydration of calcium sulfoaluminate cement blended with blast-furnace slag. <i>Construction and Building Materials</i> , 2021, 268, 121214.	7.2	44
64	Percolation threshold and piezoresistive response of multi-wall carbon nanotube/cement composites. <i>Smart Structures and Systems</i> , 2016, 18, 217-231.	1.9	44
65	Fabrication and design of electromagnetic wave absorber composed of carbon nanotube-incorporated cement composites. <i>Composite Structures</i> , 2018, 206, 439-447.	5.8	42
66	Influence of carbon fiber additions on the electromagnetic wave shielding characteristics of CNT-cement composites. <i>Construction and Building Materials</i> , 2021, 269, 121238.	7.2	42
67	Structural repair and strengthening of damaged RC beams with sprayed FRP. <i>Composite Structures</i> , 2004, 63, 201-209.	5.8	40
68	Electrical properties and piezoresistive evaluation of polyurethane-based composites with carbon nano-materials. <i>Composites Science and Technology</i> , 2015, 121, 41-48.	7.8	39
69	Circulating fluidized bed combustion ash as controlled low-strength material (CLSM) by alkaline activation. <i>Construction and Building Materials</i> , 2017, 156, 728-738.	7.2	39
70	Recent advances in microbial viability and self-healing performance in bacterial-based cementitious materials: A review. <i>Construction and Building Materials</i> , 2021, 274, 122094.	7.2	39
71	Predictions of viscoelastic strain rate dependent behavior of fiber-reinforced polymeric composites. <i>Composite Structures</i> , 2012, 94, 1420-1429.	5.8	38
72	Steel wire electromechanical impedance method using a piezoelectric material for composite structures with complex surfaces. <i>Composite Structures</i> , 2013, 98, 79-84.	5.8	38

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73	Characterization of cement-based materials using a reusable piezoelectric impedance-based sensor. <i>Smart Materials and Structures</i> , 2011, 20, 085023.	3.5	37
74	Impacts of metakaolin on lightweight concrete by type of fine aggregate. <i>Construction and Building Materials</i> , 2012, 36, 719-726.	7.2	37
75	Mechanical properties and piezoresistive sensing capabilities of FRP composites incorporating CNT fibers. <i>Composite Structures</i> , 2017, 178, 1-8.	5.8	37
76	Effect of carbonyl iron powder incorporation on the piezoresistive sensing characteristics of CNT-based polymeric sensor. <i>Composite Structures</i> , 2020, 244, 112260.	5.8	37
77	Multi-level modeling of effective elastic behavior and progressive weakened interface in particulate composites. <i>Composites Science and Technology</i> , 2008, 68, 387-397.	7.8	36
78	A computational approach to the investigation of impact damage evolution in discontinuously reinforced fiber composites. <i>Computational Mechanics</i> , 2001, 27, 504-512.	4.0	35
79	A technique for improving the damage detection ability of the electro-mechanical impedance method on concrete structures. <i>Smart Materials and Structures</i> , 2012, 21, 085024.	3.5	34
80	A Three-dimensional Stress Analysis of a Penny-shaped Crack Interacting with a Spherical Inclusion. <i>International Journal of Damage Mechanics</i> , 2007, 16, 331-359.	4.2	33
81	Effects of High Volumes of Fly Ash, Blast Furnace Slag, and Bottom Ash on Flow Characteristics, Density, and Compressive Strength of High-Strength Mortar. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 662-665.	2.9	33
82	The influence of sodium hydrogen carbonate on the hydration of cement. <i>Construction and Building Materials</i> , 2015, 94, 746-749.	7.2	33
83	Multi-level homogenization for the prediction of the mechanical properties of ultra-high-performance concrete. <i>Construction and Building Materials</i> , 2019, 229, 116797.	7.2	33
84	Thermal behavior of alkali-activated fly ash/slag with the addition of an aerogel as an aggregate replacement. <i>Cement and Concrete Composites</i> , 2020, 106, 103462.	10.7	33
85	Effect of MgO on chloride penetration resistance of alkali-activated binder. <i>Construction and Building Materials</i> , 2018, 178, 584-592.	7.2	32
86	Micromechanics-based constitutive modeling for unidirectional laminated composites. <i>International Journal of Solids and Structures</i> , 2006, 43, 5674-5689.	2.7	31
87	Effect of CaSO <sub>4</sub> on hydration and phase conversion of calcium aluminate cement. <i>Construction and Building Materials</i> , 2019, 224, 40-47.	7.2	31
88	An elastoplastic damage model for metal matrix composites considering progressive imperfect interface under transverse loading. <i>International Journal of Plasticity</i> , 2010, 26, 25-41.	8.8	30
89	Mechanical characteristics and strengthening effectiveness of random-chopped FRP composites containing air voids. <i>Composites Part B: Engineering</i> , 2014, 62, 159-166.	12.0	29
90	Thermal evolution of hydrates in carbonation-cured Portland cement. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	3.1	28

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91	A combined molecular dynamics/micromechanics/finite element approach for multiscale constitutive modeling of nanocomposites with interface effects. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	27
92	Evolution of zeolite crystals in geopolymer-supported zeolites: effects of composition of starting materials. <i>Materials Letters</i> , 2019, 239, 33-36.	2.6	27
93	Effect of CaO incorporation on the microstructure and autogenous shrinkage of ternary blend Portland cement-slag-silica fume. <i>Construction and Building Materials</i> , 2020, 249, 118691.	7.2	27
94	Computational investigation of the neutron shielding and activation characteristics of borated concrete with polyethylene aggregate. <i>Journal of Nuclear Materials</i> , 2014, 452, 205-211.	2.7	26
95	Alkali activated slag pastes with surface-modified blast furnace slag. <i>Cement and Concrete Composites</i> , 2017, 76, 39-47.	10.7	26
96	Effects of silica aerogel inclusion on the stability of heat generation and heat-dependent electrical characteristics of cementitious composites with CNT. <i>Cement and Concrete Composites</i> , 2021, 115, 103861.	10.7	26
97	Characterization of blast furnace slag-blended Portland cement for immobilization of Co. <i>Cement and Concrete Research</i> , 2020, 134, 106089.	11.0	26
98	Non-destructive evaluation of concrete quality using PZT transducers. <i>Smart Structures and Systems</i> , 2010, 6, 851-866.	1.9	26
99	Numerical characterization of compressive response and damage evolution in laminated plates containing a cutout. <i>Composites Science and Technology</i> , 2007, 67, 2221-2230.	7.8	25
100	Bond characteristics of sprayed FRP composites bonded to concrete substrate considering various concrete surface conditions. <i>Composite Structures</i> , 2013, 100, 270-279.	5.8	25
101	Interfacial bond behavior of FRP fabrics bonded to fiber-reinforced geopolymer mortar. <i>Composite Structures</i> , 2015, 134, 353-368.	5.8	25
102	Improved electric heating characteristics of CNT-embedded polymeric composites with an addition of silica aerogel. <i>Composites Science and Technology</i> , 2021, 212, 108866.	7.8	25
103	Numerical evaluation of shear strengthening performance of CFRP sheets/strips and sprayed epoxy coating repair systems. <i>Composites Part B: Engineering</i> , 2008, 39, 851-862.	12.0	24
104	A multi-sensing electromechanical impedance method for non-destructive evaluation of metallic structures. <i>Smart Materials and Structures</i> , 2013, 22, 095011.	3.5	24
105	A novel physicomechanical approach to dispersion of carbon nanotubes in polypropylene composites. <i>Composite Structures</i> , 2021, 258, 113377.	5.8	24
106	An elastoplastic multi-level damage model for ductile matrix composites considering evolutionary weakened interface. <i>International Journal of Solids and Structures</i> , 2008, 45, 1614-1631.	2.7	23
107	Image Analysis and DC Conductivity Measurement for the Evaluation of Carbon Nanotube Distribution in Cement Matrix. <i>International Journal of Concrete Structures and Materials</i> , 2015, 9, 427-438.	3.2	23
108	Improved electromagnetic wave shielding capability of carbonyl iron powder-embedded lightweight CFRP composites. <i>Composite Structures</i> , 2022, 286, 115326.	5.8	23

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109	A computational approach for prediction of the damage evolution and crushing behavior of chopped random fiber composites. <i>Computational Materials Science</i> , 2004, 29, 459-474.	3.0	22
110	Micromechanics-based viscoelastic damage model for particle-reinforced polymeric composites. <i>Acta Mechanica</i> , 2012, 223, 1307-1321.	2.1	22
111	Binder chemistry of sodium carbonate-activated CFBC fly ash. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	3.1	22
112	Computational modeling of the response and damage behavior of fiber reinforced cellular concrete. <i>Computers and Structures</i> , 2004, 82, 581-592.	4.4	21
113	Microstructural evolution and carbonation behavior of lime-slag binary binders. <i>Cement and Concrete Composites</i> , 2021, 119, 104000.	10.7	21
114	An RVE-based micromechanical analysis of fiber-reinforced composites considering fiber size dependency. <i>Composite Structures</i> , 2009, 90, 418-427.	5.8	20
115	A zinc oxide/polyurethane-based generator composite as a self-powered sensor for traffic flow monitoring. <i>Composite Structures</i> , 2015, 134, 579-586.	5.8	20
116	Structural behavior and performance of water pipes rehabilitated with a fast-setting polyurethane lining. <i>Tunnelling and Underground Space Technology</i> , 2016, 52, 192-201.	6.2	20
117	3D Micromechanics and Effective Moduli for Brittle Composites with Randomly Located Interacting Microcracks and Inclusions. <i>International Journal of Damage Mechanics</i> , 2008, 17, 377-417.	4.2	19
118	Effects of biological admixtures on hydration and mechanical properties of Portland cement paste. <i>Construction and Building Materials</i> , 2020, 235, 117461.	7.2	19
119	CO <sub>2</sub> Uptake and Physicochemical Properties of Carbonation-Cured Ternary Blend Portland Cement-Metakaolin-Limestone Pastes. <i>Materials</i> , 2020, 13, 4656.	2.9	19
120	Effectiveness of Retrofitting Damaged Concrete Beams with Sprayed Fiber-reinforced Polymer Coating. <i>Journal of Reinforced Plastics and Composites</i> , 2008, 27, 1269-1286.	3.1	18
121	3D-Damage Model for Fiber-Reinforced Brittle Composites with Microcracks and Imperfect Interfaces. <i>Journal of Engineering Mechanics - ASCE</i> , 2009, 135, 1108-1118.	2.9	18
122	Elastoplastic modeling of polymeric composites containing randomly located nanoparticles with an interface effect. <i>Composite Structures</i> , 2013, 99, 123-130.	5.8	18
123	Stability of MgO-modified geopolymetric gel structure exposed to a CO <sub>2</sub> -rich environment. <i>Construction and Building Materials</i> , 2017, 151, 178-185.	7.2	18
124	Characterization of reactive MgO-modified calcium sulfoaluminate cements upon carbonation. <i>Cement and Concrete Research</i> , 2021, 146, 106484.	11.0	18
125	Elastic-damage Modeling for Particulate Composites Considering Cumulative Damage. <i>International Journal of Damage Mechanics</i> , 2011, 20, 131-158.	4.2	17
126	Structural strengthening and damage behaviors of hybrid sprayed fiber-reinforced polymer composites containing carbon fiber cores. <i>International Journal of Damage Mechanics</i> , 2017, 26, 358-376.	4.2	17



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127	Utilization of Calcium Carbide Residue Using Granulated Blast Furnace Slag. <i>Materials</i> , 2019, 12, 3511.	2.9	17
128	Experimental and theoretical studies of hydration of ultra-high performance concrete cured under various curing conditions. <i>Construction and Building Materials</i> , 2021, 278, 122352.	7.2	17
129	Review on recent advances in securing the long-term durability of calcium aluminate cement (CAC)-based systems. <i>Functional Composites and Structures</i> , 2021, 3, 035002.	3.4	17
130	A damage mechanics model of crack-weakened, chopped fiber composites under impact loading. <i>Composites Part B: Engineering</i> , 2002, 33, 25-34.	12.0	16
131	Elastoplastic modeling of circular fiber-reinforced ductile matrix composites considering a finite RVE. <i>International Journal of Solids and Structures</i> , 2010, 47, 827-836.	2.7	16
132	An analytical model to predict curvature effects of the carbon nanotube on the overall behavior of nanocomposites. <i>Journal of Applied Physics</i> , 2014, 116, 033511.	2.5	16
133	Effectiveness of Anchorage in Concrete Beams Retrofitted with Sprayed Fiber-reinforced Polymers. <i>Journal of Reinforced Plastics and Composites</i> , 2004, 23, 1285-1300.	3.1	15
134	Performance Characteristics of Lightweight Aggregate Cellular Concrete Containing Polypropylene Fibers. <i>Journal of Reinforced Plastics and Composites</i> , 2010, 29, 883-898.	3.1	15
135	Interfacial crack-induced debonding behavior of sprayed FRP laminate bonded to RC beams. <i>Composite Structures</i> , 2015, 128, 176-187.	5.8	15
136	Role of Al in the crystal growth of alkali-activated fly ash and slag under a hydrothermal condition. <i>Construction and Building Materials</i> , 2020, 239, 117842.	7.2	15
137	Influence of water ingress on the electrical properties and electromechanical sensing capabilities of CNT/cement composites. <i>Journal of Building Engineering</i> , 2021, 42, 103065.	3.4	15
138	An experimental study on sag-resistance ability and applicability of sprayed FRP system on vertical and overhead concrete surfaces. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 21-33.	3.1	14
139	Structural evolution of binder gel in alkali-activated cements exposed to electrically accelerated leaching conditions. <i>Journal of Hazardous Materials</i> , 2020, 387, 121825.	12.4	14
140	A comprehensive micromechanical and experimental study of the electrical conductivity of polymeric composites incorporating carbon nanotube and carbon fiber. <i>Composite Structures</i> , 2021, 268, 114002.	5.8	14
141	Hydration properties of alkali-activated fly ash/slag binders modified by MgO with different reactivity. <i>Journal of Building Engineering</i> , 2021, 44, 103252.	3.4	14
142	Strain rate and adhesive energy dependent viscoplastic damage modeling for nanoparticulate composites: Molecular dynamics and micromechanical simulations. <i>Applied Physics Letters</i> , 2014, 104, 101901.	3.3	13
143	Facile Synthesis of Sprayed CNTs Layer-Embedded Stretchable Sensors with Controllable Sensitivity. <i>Polymers</i> , 2021, 13, 311.	4.5	13
144	Micromechanics-based elastic-damage analysis of laminated composite structures. <i>International Journal of Solids and Structures</i> , 2009, 46, 3138-3149.	2.7	12

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145	Piezoresistive characteristics of CNT fiber-incorporated GFRP composites prepared with diversified fabrication schemes. <i>Composite Structures</i> , 2018, 203, 835-843.	5.8	12
146	Enhancement of the modulus of compression of calcium silicate hydrates via covalent synthesis of CNT and silica fume. <i>Construction and Building Materials</i> , 2019, 198, 218-225.	7.2	12
147	Modifications in hydration kinetics and characteristics of calcium aluminate cement upon blending with calcium sulfoaluminate cement. <i>Construction and Building Materials</i> , 2022, 342, 127958.	7.2	12
148	Numerical study on retrofit and strengthening performance of sprayed fiber reinforced polymer. <i>Engineering Structures</i> , 2005, 27, 1476-1487.	5.3	11
149	The Effects of Temperature on the Hydrothermal Synthesis of Hydroxyapatite-Zeolite Using Blast Furnace Slag. <i>Materials</i> , 2019, 12, 2131.	2.9	11
150	Piezoelectric characteristics of urethane composites incorporating piezoelectric nanomaterials. <i>Composite Structures</i> , 2020, 241, 112072.	5.8	10
151	Prediction of crack evolution and effective elastic behavior of damage-tolerant brittle composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 196, 118-133.	6.6	9
152	Impact of Bio-Carrier Immobilized with Marine Bacteria on Self-Healing Performance of Cement-Based Materials. <i>Materials</i> , 2020, 13, 4164.	2.9	9
153	Advanced Spray Multiple Layup Process for Quality Control of Sprayed FRP Composites Used to Retrofit Concrete Structures. <i>Journal of Construction Engineering and Management - ASCE</i> , 2015, 141, 04014060.	3.8	8
154	Multiscale approach to predict the effective elastic behavior of nanoparticle-reinforced polymer composites. <i>Interaction and Multiscale Mechanics</i> , 2011, 4, 173-185.	0.4	8
155	A computational investigation of crack evolution and interactions of microcracks and particles in particle-reinforced brittle composites. <i>Composite Structures</i> , 2004, 64, 419-431.	5.8	7
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