Guoqiang Li

List of Publications by Year
in descending order

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273 papers	14,289 citations	19636 61 h-index	27389 106 g-index
277 all docs	277 docs citations	277 times ranked	12019 citing authors

#	Article	IF	Citations
1	A review of stimuli-responsive shape memory polymer composites. Polymer, 2013, 54, 2199-2221.	1.8	960
2	Broad histone H3K4me3 domains in mouse oocytes modulate maternal-to-zygotic transition. Nature, 2016, 537, 548-552.	13.7	484
3	A review of stimuli-responsive polymers for smart textile applications. Smart Materials and Structures, 2012, 21, 053001.	1.8	467
4	Programming and Inheritance of Parental DNA Methylomes in Mammals. Cell, 2014, 157, 979-991.	13.5	451
5	Sperm, but Not Oocyte, DNA Methylome Is Inherited by Zebrafish Early Embryos. Cell, 2013, 153, 773-784.	13.5	428
6	Development of waste tire modified concrete. Cement and Concrete Research, 2004, 34, 2283-2289.	4.6	266
7	Mapping of long-range chromatin interactions by proximity ligation-assisted ChIP-seq. Cell Research, 2016, 26, 1345-1348.	5.7	264
8	A persistent Holocene wetting trend in arid central Asia, with wettest conditions in the late Holocene, revealed by multi-proxy analyses of loess-paleosol sequences in Xinjiang, China. Quaternary Science Reviews, 2016, 146, 134-146.	1.4	261
9	Thermomechanical characterization of a shape memory polymer based self-repairing syntactic foam. Polymer, 2010, 51, 755-762.	1.8	219
10	Laboratory investigation of portland cement concrete containing recycled asphalt pavements. Cement and Concrete Research, 2005, 35, 2008-2013.	4.6	212
11	Thermomechanical behavior of thermoset shape memory polymer programmed by cold-compression: Testing and constitutive modeling. Journal of the Mechanics and Physics of Solids, 2011, 59, 1231-1250.	2.3	203
12	Shape memory polymer based self-healing syntactic foam: 3-D confined thermomechanical characterization. Composites Science and Technology, 2010, 70, 1419-1427.	3.8	190
13	A thermodynamic consistent damage and healing model for self healing materials. International Journal of Plasticity, 2011, 27, 1025-1044.	4.1	184
14	A self-healing smart syntactic foam under multiple impacts. Composites Science and Technology, 2008, 68, 3337-3343.	3.8	177
15	A biomimic shape memory polymer based self-healing particulate composite. Polymer, 2010, 51, 6021-6029.	1.8	176
16	Advances in healing-on-demand polymers and polymer composites. Progress in Polymer Science, 2016, 57, 32-63.	11.8	172
17	Effects of adhesive thickness on global and local Mode-I interfacial fracture of bonded joints. International Journal of Solids and Structures, 2010, 47, 2445-2458.	1.3	166
18	Investigation into Waste Tire Rubber-Filled Concrete. Journal of Materials in Civil Engineering, 2004, 16, 187-194.	1.3	161

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19	Buckling load analysis of grid stiffened composite cylinders. Composites Part B: Engineering, 2003, 34, 1-9.	5.9	160
20	Joint profiling of DNA methylation and chromatin architecture in single cells. Nature Methods, 2019, 16, 991-993.	9.0	155
21	SPOP Promotes Tumorigenesis by Acting as a Key Regulatory Hub in Kidney Cancer. Cancer Cell, 2014, 25, 455-468.	7.7	154
22	Constitutive modeling of shape memory polymer based self-healing syntactic foam. International Journal of Solids and Structures, 2010, 47, 1306-1316.	1.3	146
23	Recyclable high-performance epoxy based on transesterification reaction. Journal of Materials Chemistry A, 2017, 5, 21505-21513.	5.2	138
24	Waste tire fiber modified concrete. Composites Part B: Engineering, 2004, 35, 305-312.	5.9	137
25	Four-phase sphere modeling of effective bulk modulus of concrete. Cement and Concrete Research, 1999, 29, 839-845.	4.6	134
26	Effect of strain hardening of shape memory polymer fibers on healing efficiency of thermosetting polymer composites. Polymer, 2013, 54, 920-928.	1.8	123
27	Cold, warm, and hot programming of shape memory polymers. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1319-1339.	2.4	117
28	Laboratory Investigation of Mixing Hot-Mix Asphalt with Reclaimed Asphalt Pavement. , 0, .		111
29	A continuum damage failure model for hydraulic fracturing of porous rocks. International Journal of Plasticity, 2014, 59, 199-212.	4.1	110
30	Reversible switching transitions of stimuli-responsive shape changing polymers. Journal of Materials Chemistry A, 2013, 1, 7838.	5.2	106
31	A self-healing 3D woven fabric reinforced shape memory polymer composite for impact mitigation. Smart Materials and Structures, 2010, 19, 035007.	1.8	105
32	Signal timing of intersections using integrated optimization of traffic quality, emissions and fuel consumption: a note. Transportation Research, Part D: Transport and Environment, 2004, 9, 401-407.	3.2	104
33	A generalized coupled viscoplasticâ€“viscodamageâ€“viscohealing theory for glassy polymers. International Journal of Plasticity, 2012, 28, 21-45.	4.1	103
34	A viscoplastic theory of shape memory polymer fibres with application to self-healing materials. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 2319-2346.	1.0	101
35	Recyclable thermoset shape memory polymers with high stress and energy outputviafacile UV-curing. Journal of Materials Chemistry A, 2018, 6, 11479-11487.	5.2	101
36	Effective Young's modulus estimation of concrete. Cement and Concrete Research, 1999, 29, 1455-1462.	4.6	95

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37	Healable thermoset polymer composite embedded with stimuli-responsive fibres. Journal of the Royal Society Interface, 2012, 9, 3279-3287.	1.5	95
38	Elastic Modulus Prediction of Asphalt Concrete. Journal of Materials in Civil Engineering, 1999, 11, 236-241.	1.3	93
39	Self-healing of sandwich structures with a grid stiffened shape memory polymer syntactic foam core. Smart Materials and Structures, 2010, 19, 075013.	1.8	93
40	A self-healing particulate composite reinforced with strain hardened short shape memory polymer fibers. Polymer, 2013, 54, 5075-5086.	1.8	93
41	Experimental study of FRP confined concrete cylinders. Engineering Structures, 2006, 28, 1001-1008.	2.6	92
42	Continuum Damage-Healing Mechanics with Introduction to New Healing Variables. International Journal of Damage Mechanics, 2012, 21, 391-414.	2.4	92
43	Intrinsic healable and recyclable thermoset epoxy based on shape memory effect and transesterification reaction. Polymer, 2016, 105, 10-18.	1.8	92
44	Temperature and rate dependent thermomechanical modeling of shape memory polymers with physics based phase evolution law. International Journal of Plasticity, 2016, 80, 168-186.	4.1	85
45	Optically reconfigurable chiral microspheres of self-organized helical superstructures with handedness inversion. Materials Horizons, 2017, 4, 1190-1195.	6.4	83
46	Impact characterization of sandwich structures with an integrated orthogrid stiffened syntactic foam core. Composites Science and Technology, 2008, 68, 2078-2084.	3.8	80
47	Damage healing ability of a shape-memory-polymer-based particulate composite with small thermoplastic contents. Smart Materials and Structures, 2012, 21, 025011.	1.8	80
48	One-Way Multishape-Memory Effect and Tunable Two-Way Shape Memory Effect of Ionomer Poly(ethylene-co-methacrylic acid). ACS Applied Materials & Interfaces, 2016, 8, 14812-14823.	4.0	80
49	Various shape memory effects of stimuli-responsive shape memory polymers. Smart Materials and Structures, 2013, 22, 093001.	1.8	79
50	Multireusable Thermoset with Anomalous Flame-Triggered Shape Memory Effect. ACS Applied Materials & Interfaces, 2019, 11, 16075-16086.	4.0	79
51	A top-down multi-scale modeling for actuation response of polymeric artificial muscles. Journal of the Mechanics and Physics of Solids, 2016, 92, 237-259.	2.3	76
52	A theory of anisotropic healing and damage mechanics of materials. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 163-183.	1.0	75
53	Viscoplasticity analysis of semicrystalline polymers: A multiscale approach within micromechanics framework. International Journal of Plasticity, 2013, 42, 31-49.	4.1	75
54	Effect of fiber orientation on the structural behavior of FRP wrapped concrete cylinders. Composite Structures, 2006, 74, 475-483.	3.1	74

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55	Small-Molecule Targeting of E3 Ligase Adaptor SPOP in Kidney Cancer. Cancer Cell, 2016, 30, 474-484.	7.7	74
56	Development of rubberized syntactic foam. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1483-1492.	3.8	73
57	Buckling of functionally graded and elastically restrained non-uniform columns. Composites Part B: Engineering, 2009, 40, 393-403.	5.9	73
58	Versatile Phosphate Diester-Based Flame Retardant Vitrimers via Catalyst-Free Mixed Transesterification. ACS Applied Materials & Interfaces, 2020, 12, 57486-57496.	4.0	73
59	Catalyst-free Î²-hydroxy phosphate ester exchange for robust fire-proof vitrimers. Chemical Engineering Journal, 2021, 417, 129132.	6.6	73
60	Analytical modeling and experimental study of tensile strength of asphalt concrete composite at low temperatures. Composites Part B: Engineering, 2003, 34, 705-714.	5.9	70
61	Impact and post impact response of laminated beams at low temperatures. Composite Structures, 2007, 79, 12-17.	3.1	70
62	Healing-on-demand composites based on polymer artificial muscle. Polymer, 2015, 64, 29-38.	1.8	65
63	High enthalpy storage thermoset network with giant stress and energy output in rubbery state. Nature Communications, 2018, 9, 642.	5.8	65
64	Biobased Tannic Acid Cross-Linked Epoxy Thermosets with Hierarchical Molecular Structure and Tunable Properties: Damping, Shape Memory, and Recyclability. ACS Sustainable Chemistry and Engineering, 2020, 8, 874-883.	3.2	65
65	A multiscale approach for modeling actuation response of polymeric artificial muscles. Soft Matter, 2015, 11, 3833-3843.	1.2	62
66	Crack-healing in ceramics. Composites Part B: Engineering, 2018, 144, 56-87.	5.9	62
67	Effects of ultraviolet radiation on morphology and thermo-mechanical properties of shape memory polymer based syntactic foam. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1525-1533.	3.8	61
68	Multi-scale constitutive modeling of Ceramic Matrix Composites by Continuum Damage Mechanics. International Journal of Solids and Structures, 2014, 51, 4068-4081.	1.3	61
69	Artificial muscles made of chiral two-way shape memory polymer fibers. Applied Physics Letters, 2016, 109, .	1.5	59
70	4D Printing of Recyclable Lightweight Architectures Using High Recovery Stress Shape Memory Polymer. Scientific Reports, 2019, 9, 7621.	1.6	59
71	Evolutionary transition between invertebrates and vertebrates via methylation reprogramming in embryogenesis. National Science Review, 2019, 6, 993-1003.	4.6	58
72	Cyclic Viscoplastic-Viscodamage Analysis of Shape Memory Polymers Fibers With Application to Self-Healing Smart Materials. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	57

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73	Paleoenvironmental changes recorded in a luminescence dated loess/paleosol sequence from the Tianshan Mountains, arid central Asia, since the Penultimate Glaciation. Earth and Planetary Science Letters, 2016, 448, 1-12.	1.8	57
74	Quartz OSL and K-feldspar pIRIR dating of a loess/paleosol sequence from arid central Asia, Tianshan Mountains, NW China. Quaternary Geochronology, 2015, 28, 40-53.	0.6	56
75	Nonlinear interface shear fracture of end notched flexure specimens. International Journal of Solids and Structures, 2009, 46, 2659-2668.	1.3	54
76	Thermomechanical Characterization of Shape Memory Polymerâ€“Based Self-Healing Syntactic Foam Sealant for Expansion Joints. Journal of Transportation Engineering, 2011, 137, 805-814.	0.9	54
77	Landscape evolution of the Ulan Buh Desert in northern China during the late Quaternary. Quaternary Research, 2014, 81, 476-487.	1.0	53
78	Differential ice volume and orbital modulation of Quaternary moisture patterns between Central and East Asia. Earth and Planetary Science Letters, 2020, 530, 115901.	1.8	53
79	Isogrid stiffened syntactic foam cored sandwich structure under low velocity impact. Composites Part A: Applied Science and Manufacturing, 2010, 41, 177-184.	3.8	51
80	Earlyâ€“middle Holocene lake-desert evolution in northern Ulan Buh Desert, China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 331-332, 31-38.	1.0	51
81	DNA methylation reprogramming of functional elements during mammalian embryonic development. Cell Discovery, 2018, 4, 41.	3.1	51
82	Effects of bondline thickness on Mode-I nonlinear interfacial fracture of laminated composites: An experimental study. Composites Part B: Engineering, 2013, 47, 1-7.	5.9	50
83	Trend of increasing Holocene summer precipitation in arid central Asia: Evidence from an organic carbon isotopic record from the LJW10 loess section in Xinjiang, NW China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 509, 24-32.	1.0	50
84	Smart lost circulation materials for productive zones. Journal of Petroleum Exploration and Production, 2019, 9, 281-296.	1.2	50
85	A phenomenological constitutive model for semicrystalline two-way shape memory polymers. International Journal of Mechanical Sciences, 2020, 177, 105552.	3.6	50
86	A crumb rubber modified syntactic foam. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 474, 390-399.	2.6	49
87	A Tianshan Mountains loess-paleosol sequence indicates anti-phase climatic variations in arid central Asia and in East Asia. Earth and Planetary Science Letters, 2018, 494, 153-163.	1.8	48
88	On the interfacial constitutive laws of mixed mode fracture with various adhesive thicknesses. Mechanics of Materials, 2012, 47, 24-32.	1.7	47
89	Structural relaxation behavior of strain hardened shape memory polymer fibers for selfâ€healing applications. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 966-977.	2.4	47
90	A multiscale theory of self-crack-healing with solid healing agent assisted by shape memory effect. Mechanics of Materials, 2015, 81, 25-40.	1.7	47

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91	Cohesive zone model based analytical solutions for adhesively bonded pipe joints under torsional loading. International Journal of Solids and Structures, 2009, 46, 1205-1217.	1.3	46
92	Thermoviscoplastic Modeling and Testing of Shape Memory Polymer Based Self-Healing Syntactic Foam Programmed at Glassy Temperature. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	1.1	46
93	SnapHiC: a computational pipeline to identify chromatin loops from single-cell Hi-C data. Nature Methods, 2021, 18, 1056-1059.	9.0	46
94	FRP tube encased rubberized concrete cylinders. Materials and Structures/Materiaux Et Constructions, 2011, 44, 233-243.	1.3	44
95	A shape memory polymer based syntactic foam with negative Poisson's ratio. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6804-6811.	2.6	43
96	Thermomechanical constitutive modelling of shape memory polymer including continuum functional and mechanical damage effects. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140199.	1.0	42
97	Effects of nanoclay morphology on the mechanical, thermal, and fire-retardant properties of vinyl ester based nanocomposite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 498, 327-334.	2.6	41
98	A new fire resistant FRP for externally bonded concrete repair. Construction and Building Materials, 2013, 42, 87-96.	3.2	41
99	Investigation into FRP repaired RC columns. Composite Structures, 2003, 62, 83-89.	3.1	40
100	Analytical Modeling of Three-Layered HMA Mixtures. International Journal of Geomechanics, 2007, 7, 140-148.	1.3	40
101	Behavior of Thermoset Shape Memory Polymer-Based Syntactic Foam Sealant Trained by Hybrid Two-Stage Programming. Journal of Materials in Civil Engineering, 2013, 25, 393-402.	1.3	40
102	Vitrimer based composite laminates with shape memory alloy Z-pins for repeated healing of impact induced delamination. Composites Part B: Engineering, 2020, 200, 108324.	5.9	40
103	Investigation into three-layered HMA mixtures. Composites Part B: Engineering, 2006, 37, 679-690.	5.9	39
104	Effects of bondline thickness on Mode-II interfacial laws of bonded laminated composite plate. International Journal of Fracture, 2011, 168, 197-207.	1.1	39
105	Repair of damaged RC columns using fast curing FRP composites. Composites Part B: Engineering, 2003, 34, 261-271.	5.9	38
106	Experimental study of FRP tube encased concrete cylinders exposed to fire. Composite Structures, 2008, 85, 149-154.	3.1	38
107	A CaO enhanced rubberized syntactic foam. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1404-1411.	3.8	37
108	Finite difference three-dimensional solution of stresses in adhesively bonded composite tubular joint subjected to torsion. International Journal of Adhesion and Adhesives, 2010, 30, 191-199.	1.4	37

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109	Environmental changes in the Ulan Buh Desert, southern Inner Mongolia, China since the middle Pleistocene based on sedimentology, chronology and proxy indexes. Quaternary Science Reviews, 2015, 128, 69-80.	1.4	37
110	Expandable proppants to moderate production drop in hydraulically fractured wells. Journal of Natural Gas Science and Engineering, 2018, 55, 182-190.	2.1	37
111	Low velocity impact response of GFRP laminates subjected to cycling moistures. Polymer Composites, 2000, 21, 686-695.	2.3	36
112	Room-Temperature Self-Healable and Mechanically Robust Thermoset Polymers for Healing Delamination and Recycling Carbon Fibers. ACS Applied Materials & Interfaces, 2021, 13, 53099-53110.	4.0	36
113	Hyperspectral Anomaly Detection Using Deep Learning: A Review. Remote Sensing, 2022, 14, 1973.	1.8	36
114	Si-substrate LEDs with multiple superlattice interlayers for beyond 24â€‰â€‰Gbps visible light communication. Photonics Research, 2021, 9, 1581.	3.4	35
115	Local Damage Evolution of Double Cantilever Beam Specimens During Crack Initiation Process: A Natural Boundary Condition Based Method. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	1.1	34
116	On Approximately Realizing and Characterizing Pure Mode-I Interface Fracture Between Bonded Dissimilar Materials. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	1.1	34
117	Quantifying the contributions of energy storage in a thermoset shape memory polymer with high stress recovery: A molecular dynamics study. Polymer, 2021, 213, 123319.	1.8	34
118	Free vibration and physical parameter identification of non-uniform composite beams. Composite Structures, 2006, 74, 37-50.	3.1	32
119	Machine learning assisted discovery of new thermoset shape memory polymers based on a small training dataset. Polymer, 2021, 214, 123351.	1.8	32
120	Analytical modeling of tensile strength of particulate-filled composites. Polymer Composites, 2001, 22, 593-603.	2.3	31
121	Debonding and impact tolerant sandwich panel with hybrid foam core. Composite Structures, 2013, 103, 143-150.	3.1	30
122	Investigation into stress recovery behavior of shape memory polyurethane fiber. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1429-1440.	2.4	30
123	Quartz and K-feldspar optical dating chronology of eolian sand and lacustrine sequence from the southern Ulan Buh Desert, NW China: Implications for reconstructing late Pleistocene environmental evolution. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 393, 111-121.	1.0	30
124	Genome wide abnormal DNA methylome of human blastocyst in assisted reproductive technology. Journal of Genetics and Genomics, 2017, 44, 475-481.	1.7	30
125	Recycling Thermoset Epoxy Resin Using Alkyl-Methyl-Imidazolium Ionic Liquids as Green Solvents. ACS Applied Polymer Materials, 2021, 3, 5588-5595.	2.0	30
126	Investigation of prepreg bonded composite single lap joint. Composites Part B: Engineering, 2001, 32, 651-658.	5.9	29

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127	A cement based syntactic foam. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 478, 77-86.	2.6	29
128	Cyclic stress-strain behavior of shape memory polymer based syntactic foam programmed by 2-D stress condition. Polymer, 2011, 52, 4571-4580.	1.8	29
129	Healing of shape memory polyurethane fiber-reinforced syntactic foam subjected to tensile stress. Journal of Intelligent Material Systems and Structures, 2016, 27, 1792-1801.	1.4	29
130	Giant reversible elongation upon cooling and contraction upon heating for a crosslinked cis poly(1,4-butadiene) system at temperatures below zero Celsius. Scientific Reports, 2018, 8, 14233.	1.6	29
131	Influence of ultraviolet radiation on the low velocity impact response of laminated beams. Composites Part B: Engineering, 2001, 32, 521-528.	5.9	28
132	Degradation evaluation index of asphalt pavement based on mechanical performance of asphalt mixture. Construction and Building Materials, 2017, 140, 75-81.	3.2	28
133	A crack healable syntactic foam reinforced by 3D printed healing-agent based honeycomb. Composites Part B: Engineering, 2018, 151, 25-34.	5.9	27
134	Fishing line artificial muscle reinforced composite for impact mitigation and on-demand damage healing. Journal of Composite Materials, 2016, 50, 4235-4249.	1.2	26
135	Influence of laser processing parameters on the surface characteristics of 316L stainless steel manufactured by selective laser melting. Materials Today: Proceedings, 2020, 26, 387-393.	0.9	26
136	Fast repair of laminated beams using UV curing composites. Composite Structures, 2003, 60, 73-81.	3.1	25
137	Light intensity effect on UV cured FRP coupled composite pipe joints. Composite Structures, 2004, 64, 539-546.	3.1	25
138	Fast joining of composite pipes using UV curing FRP composites. Polymer Composites, 2004, 25, 298-306.	2.3	25
139	Experimental study of hybrid composite cylinders. Composite Structures, 2007, 78, 170-181.	3.1	25
140	Stress analyses of a smart composite pipe joint integrated with piezoelectric composite layers under torsion loading. International Journal of Solids and Structures, 2008, 45, 1153-1178.	1.3	25
141	Durability of shape memory polymer based syntactic foam under accelerated hydrolytic ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7444-7450.	2.6	24
142	Impact tolerant and healable aluminum millitube reinforced shape memory polymer composite sandwich core. Materials & Design, 2013, 51, 79-87.	5.1	24
143	Spider-silk-like shape memory polymer fiber for vibration damping. Smart Materials and Structures, 2014, 23, 105032.	1.8	24
144	Metaheuristic-based inverse design of materials â€“ A survey. Journal of Materiomics, 2020, 6, 414-430.	2.8	24

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145	Loss circulation prevention in geothermal drilling by shape memory polymer. Geothermics, 2021, 89, 101943.	1.5	24
146	Shape memory alloy reinforced vitrimer composite for healing wide-opened cracks. Smart Materials and Structures, 2020, 29, 065008.	1.8	24
147	Stiffness Degradation of FRP Strengthened RC Beams Subjected to Hygrothermal and Aging Attacks. Journal of Composite Materials, 2002, 36, 795-812.	1.2	23
148	Quartz and K-feldspar luminescence dating of a Marine Isotope Stage 5 megalake in the Juyanze Basin, central Gobi Desert, China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 440, 96-109.	1.0	23
149	The spatial extent of the East Asian summer monsoon in arid NW China during the Holocene and Last Interglaciation. Global and Planetary Change, 2018, 169, 48-65.	1.6	23
150	Multiscale modeling of vibration damping response of shape memory polymer fibers. Composites Part B: Engineering, 2016, 91, 306-314.	5.9	22
151	Holocene shorelines and lake evolution in Juyanze Basin, southern Mongolian Plateau, revealed by luminescence dating. Holocene, 2015, 25, 1898-1911.	0.9	21
152	3D printable biomimetic rod with superior buckling resistance designed by machine learning. Scientific Reports, 2020, 10, 20716.	1.6	21
153	A Mechanism-Based Four-Chain Constitutive Model for Enthalpy-Driven Thermoset Shape Memory Polymers With Finite Deformation. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	1.1	21
154	Adhesively bonded healable composite joint. International Journal of Adhesion and Adhesives, 2012, 35, 59-67.	1.4	20
155	Stress memory of a thermoset shape memory polymer. Journal of Applied Polymer Science, 2015, 132, .	1.3	20
156	Bio-inspired crack self-healing of SiC/spinel nanocomposite. Ceramics International, 2015, 41, 2828-2835.	2.3	20
157	Structural characterization and strengthening mechanism of forsterite nanostructured scaffolds synthesized by multistep sintering method. Journal of Materials Science and Technology, 2018, 34, 2263-2270.	5.6	20
158	Shape Memory Polymers as Lost Circulation Materials for Sealing Wide-Opened Natural Fractures. SPE Drilling and Completion, 2021, 36, 931-942.	0.9	20
159	Advanced Grid Stiffened Fiber Reinforced Plastic Tube Encased Concrete Cylinders. Journal of Composite Materials, 2007, 41, 1803-1824.	1.2	19
160	Process of paleofloods in Guanting basin, Qinghai Province, China and possible relation to monsoon strength during the mid-Holocene. Quaternary International, 2014, 321, 88-96.	0.7	19
161	A CNN-SIFT Hybrid Pedestrian Navigation Method Based on First-Person Vision. Remote Sensing, 2018, 10, 1229.	1.8	19
162	Deep learning based end-to-end visible light communication with an in-band channel modeling strategy. Optics Express, 2022, 30, 28905.	1.7	19

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163	Shape Memory Polymer-Based Sealant for a Compression Sealed Joint. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	18
164	High-temperature shape memory photopolymer with intrinsic flame retardancy and record-high recovery stress. Applied Materials Today, 2021, 23, 101056.	2.3	18
165	46.4 Gbps visible light communication system utilizing a compact tricolor laser transmitter. Optics Express, 2022, 30, 4365.	1.7	18
166	Development of a smart composite pipe joint integrated with piezoelectric layers under tensile loading. International Journal of Solids and Structures, 2006, 43, 5370-5385.	1.3	17
167	Fast repair of damaged RC beams using UV curing FRP composites. Composite Structures, 2006, 72, 105-110.	3.1	17
168	Interfacial debonding of pipe joints under torsion loads: a model for arbitrary nonlinear cohesive laws. International Journal of Fracture, 2009, 155, 19-31.	1.1	17
169	Neural-Network-Based Nonlinear Tomlinson-Harashima Precoding for Bandwidth-Limited Underwater Visible Light Communication. Journal of Lightwave Technology, 2022, 40, 2296-2306.	2.7	17
170	Analytical modeling of particle size and cluster effects on particulate-filled composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 271, 43-52.	2.6	16
171	Joining composite pipes using hybrid prepreg welding and adhesive bonding. Polymer Composites, 2003, 24, 697-705.	2.3	16
172	A Generalized Analytical Modeling of Grid Stiffened Composite Structures. Journal of Composite Materials, 2007, 41, 2939-2969.	1.2	16
173	UV-cured FRP joint thickness effect on coupled composite pipes. Composite Structures, 2007, 80, 290-297.	3.1	16
174	Experimental investigation into the interfacial shear strength of AGS-FRP tube confined concrete pile. Engineering Structures, 2009, 31, 2309-2316.	2.6	16
175	Late Quaternary lake evolution in the Gaxun Nur basin, central Gobi Desert, China, based on quartz OSL and Kâ€feldspar pIRIR dating of paleoshorelines. Journal of Quaternary Science, 2017, 32, 347-361.	1.1	16
176	Orbital scale lake evolution in the Ejina Basin, central Gobi Desert, China revealed by K-feldspar luminescence dating of paleolake shoreline features. Quaternary International, 2018, 482, 109-121.	0.7	16
177	Conjugation of Nanomaterials and Nematic Liquid Crystals for Futuristic Applications and Biosensors. Biosensors, 2018, 8, 69.	2.3	16
178	Chloride-ion concentration flow cells for efficient salinity gradient energy recovery with bismuth oxychloride electrodes. Electrochimica Acta, 2019, 322, 134724.	2.6	16
179	Development in liquid crystal microcapsules: fabrication, optimization and applications. Journal of Materials Chemistry C, 2022, 10, 413-432.	2.7	16
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