

Guoqiang Li

List of Publications by Year in descending order

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222
papers

11,037
citations

23500

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all docs

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docs citations

231
times ranked

7425
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of stimuli-responsive shape memory polymer composites. <i>Polymer</i> , 2013, 54, 2199-2221.	1.8	960
2	A review of stimuli-responsive polymers for smart textile applications. <i>Smart Materials and Structures</i> , 2012, 21, 053001.	1.8	467
3	Development of waste tire modified concrete. <i>Cement and Concrete Research</i> , 2004, 34, 2283-2289.	4.6	266
4	Thermomechanical characterization of a shape memory polymer based self-repairing syntactic foam. <i>Polymer</i> , 2010, 51, 755-762.	1.8	219
5	Laboratory investigation of portland cement concrete containing recycled asphalt pavements. <i>Cement and Concrete Research</i> , 2005, 35, 2008-2013.	4.6	212
6	Thermomechanical behavior of thermoset shape memory polymer programmed by cold-compression: Testing and constitutive modeling. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 1231-1250.	2.3	203
7	Shape memory polymer based self-healing syntactic foam: 3-D confined thermomechanical characterization. <i>Composites Science and Technology</i> , 2010, 70, 1419-1427.	3.8	190
8	A thermodynamic consistent damage and healing model for self healing materials. <i>International Journal of Plasticity</i> , 2011, 27, 1025-1044.	4.1	184
9	A self-healing smart syntactic foam under multiple impacts. <i>Composites Science and Technology</i> , 2008, 68, 3337-3343.	3.8	177
10	Laboratory Investigation of Mixing Hot-Mix Asphalt with Reclaimed Asphalt Pavement. <i>Transportation Research Record</i> , 2005, 1929, 37-45.	1.0	176
11	A biomimic shape memory polymer based self-healing particulate composite. <i>Polymer</i> , 2010, 51, 6021-6029.	1.8	176
12	Advances in healing-on-demand polymers and polymer composites. <i>Progress in Polymer Science</i> , 2016, 57, 32-63.	11.8	172
13	Effects of adhesive thickness on global and local Mode-I interfacial fracture of bonded joints. <i>International Journal of Solids and Structures</i> , 2010, 47, 2445-2458.	1.3	166
14	Investigation into Waste Tire Rubber-Filled Concrete. <i>Journal of Materials in Civil Engineering</i> , 2004, 16, 187-194.	1.3	161
15	Buckling load analysis of grid stiffened composite cylinders. <i>Composites Part B: Engineering</i> , 2003, 34, 1-9.	5.9	160
16	Constitutive modeling of shape memory polymer based self-healing syntactic foam. <i>International Journal of Solids and Structures</i> , 2010, 47, 1306-1316.	1.3	146
17	Recyclable high-performance epoxy based on transesterification reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21505-21513.	5.2	138
18	Waste tire fiber modified concrete. <i>Composites Part B: Engineering</i> , 2004, 35, 305-312.	5.9	137

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19	Four-phase sphere modeling of effective bulk modulus of concrete. Cement and Concrete Research, 1999, 29, 839-845.	4.6	134
20	Effect of strain hardening of shape memory polymer fibers on healing efficiency of thermosetting polymer composites. Polymer, 2013, 54, 920-928.	1.8	123
21	Cold, warm, and hot programming of shape memory polymers. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1319-1339.	2.4	117
22	A continuum damage failure model for hydraulic fracturing of porous rocks. International Journal of Plasticity, 2014, 59, 199-212.	4.1	110
23	Reversible switching transitions of stimuli-responsive shape changing polymers. Journal of Materials Chemistry A, 2013, 1, 7838.	5.2	106
24	A self-healing 3D woven fabric reinforced shape memory polymer composite for impact mitigation. Smart Materials and Structures, 2010, 19, 035007.	1.8	105
25	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
26	A generalized coupled viscoplasticâ€“viscodamageâ€“viscohealing theory for glassy polymers. International Journal of Plasticity, 2012, 28, 21-45.	4.1	103
27	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
28	Recyclable thermoset shape memory polymers with high stress and energy output via facile UV-curing. Journal of Materials Chemistry A, 2018, 6, 11479-11487.	5.2	101
29	Effective Young's modulus estimation of concrete. Cement and Concrete Research, 1999, 29, 1455-1462.	4.6	95
30	Healable thermoset polymer composite embedded with stimuli-responsive fibres. Journal of the Royal Society Interface, 2012, 9, 3279-3287.	1.5	95
31	Elastic Modulus Prediction of Asphalt Concrete. Journal of Materials in Civil Engineering, 1999, 11, 236-241.	1.3	93
32	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
33	A self-healing particulate composite reinforced with strain hardened short shape memory polymer fibers. Polymer, 2013, 54, 5075-5086.	1.8	93
34	Experimental study of FRP confined concrete cylinders. Engineering Structures, 2006, 28, 1001-1008.	2.6	92
35	Continuum Damage-Healing Mechanics with Introduction to New Healing Variables. International Journal of Damage Mechanics, 2012, 21, 391-414.	2.4	92
36	Intrinsic healable and recyclable thermoset epoxy based on shape memory effect and transesterification reaction. Polymer, 2016, 105, 10-18.	1.8	92

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37	Temperature and rate dependent thermomechanical modeling of shape memory polymers with physics based phase evolution law. <i>International Journal of Plasticity</i> , 2016, 80, 168-186.	4.1	85
38	Impact characterization of sandwich structures with an integrated orthogrid stiffened syntactic foam core. <i>Composites Science and Technology</i> , 2008, 68, 2078-2084.	3.8	80
39	Damage healing ability of a shape-memory-polymer-based particulate composite with small thermoplastic contents. <i>Smart Materials and Structures</i> , 2012, 21, 025011.	1.8	80
40	One-Way Multishape-Memory Effect and Tunable Two-Way Shape Memory Effect of Ionomer Poly(ethylene-co-methacrylic acid). <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14812-14823.	4.0	80
41	Various shape memory effects of stimuli-responsive shape memory polymers. <i>Smart Materials and Structures</i> , 2013, 22, 093001.	1.8	79
42	Multireusable Thermoset with Anomalous Flame-Triggered Shape Memory Effect. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16075-16086.	4.0	79
43	A top-down multi-scale modeling for actuation response of polymeric artificial muscles. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 92, 237-259.	2.3	76
44	A theory of anisotropic healing and damage mechanics of materials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 163-183.	1.0	75
45	Viscoplasticity analysis of semicrystalline polymers: A multiscale approach within micromechanics framework. <i>International Journal of Plasticity</i> , 2013, 42, 31-49.	4.1	75
46	Effect of fiber orientation on the structural behavior of FRP wrapped concrete cylinders. <i>Composite Structures</i> , 2006, 74, 475-483.	3.1	74
47	Development of rubberized syntactic foam. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1483-1492.	3.8	73
48	Buckling of functionally graded and elastically restrained non-uniform columns. <i>Composites Part B: Engineering</i> , 2009, 40, 393-403.	5.9	73
49	Versatile Phosphate Diester-Based Flame Retardant Vitrimers via Catalyst-Free Mixed Transesterification. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57486-57496.	4.0	73
50	Catalyst-free β -hydroxy phosphate ester exchange for robust fire-proof vitrimers. <i>Chemical Engineering Journal</i> , 2021, 417, 129132.	6.6	73
51	Analytical modeling and experimental study of tensile strength of asphalt concrete composite at low temperatures. <i>Composites Part B: Engineering</i> , 2003, 34, 705-714.	5.9	70
52	Impact and post impact response of laminated beams at low temperatures. <i>Composite Structures</i> , 2007, 79, 12-17.	3.1	70
53	Healing-on-demand composites based on polymer artificial muscle. <i>Polymer</i> , 2015, 64, 29-38.	1.8	65
54	High enthalpy storage thermoset network with giant stress and energy output in rubbery state. <i>Nature Communications</i> , 2018, 9, 642.	5.8	65

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55	Biobased Tannic Acid Cross-Linked Epoxy Thermosets with Hierarchical Molecular Structure and Tunable Properties: Damping, Shape Memory, and Recyclability. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 874-883.	3.2	65
56	A multiscale approach for modeling actuation response of polymeric artificial muscles. <i>Soft Matter</i> , 2015, 11, 3833-3843.	1.2	62
57	Crack-healing in ceramics. <i>Composites Part B: Engineering</i> , 2018, 144, 56-87.	5.9	62
58	Effects of ultraviolet radiation on morphology and thermo-mechanical properties of shape memory polymer based syntactic foam. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1525-1533.	3.8	61
59	Multi-scale constitutive modeling of Ceramic Matrix Composites by Continuum Damage Mechanics. <i>International Journal of Solids and Structures</i> , 2014, 51, 4068-4081.	1.3	61
60	Artificial muscles made of chiral two-way shape memory polymer fibers. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	59
61	4D Printing of Recyclable Lightweight Architectures Using High Recovery Stress Shape Memory Polymer. <i>Scientific Reports</i> , 2019, 9, 7621.	1.6	59
62	Cyclic Viscoplastic-Viscodamage Analysis of Shape Memory Polymers Fibers With Application to Self-Healing Smart Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	1.1	57
63	Localized Self-Growth of Reconfigurable Architectures Induced by a Femtosecond Laser on a Shape-Memory Polymer. <i>Advanced Materials</i> , 2018, 30, e1803072.	11.1	55
64	Nonlinear interface shear fracture of end notched flexure specimens. <i>International Journal of Solids and Structures</i> , 2009, 46, 2659-2668.	1.3	54
65	Thermomechanical Characterization of Shape Memory Polymer-Based Self-Healing Syntactic Foam Sealant for Expansion Joints. <i>Journal of Transportation Engineering</i> , 2011, 137, 805-814.	0.9	54
66	Isogrid stiffened syntactic foam cored sandwich structure under low velocity impact. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 177-184.	3.8	51
67	Effects of bondline thickness on Mode-I nonlinear interfacial fracture of laminated composites: An experimental study. <i>Composites Part B: Engineering</i> , 2013, 47, 1-7.	5.9	50
68	Smart lost circulation materials for productive zones. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 281-296.	1.2	50
69	A phenomenological constitutive model for semicrystalline two-way shape memory polymers. <i>International Journal of Mechanical Sciences</i> , 2020, 177, 105552.	3.6	50
70	A crumb rubber modified syntactic foam. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 474, 390-399.	2.6	49
71	On the interfacial constitutive laws of mixed mode fracture with various adhesive thicknesses. <i>Mechanics of Materials</i> , 2012, 47, 24-32.	1.7	47
72	Structural relaxation behavior of strain hardened shape memory polymer fibers for self-healing applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 966-977.	2.4	47

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73	A multiscale theory of self-crack-healing with solid healing agent assisted by shape memory effect. <i>Mechanics of Materials</i> , 2015, 81, 25-40.	1.7	47
74	Cohesive zone model based analytical solutions for adhesively bonded pipe joints under torsional loading. <i>International Journal of Solids and Structures</i> , 2009, 46, 1205-1217.	1.3	46
75	Thermoviscoplastic Modeling and Testing of Shape Memory Polymer Based Self-Healing Syntactic Foam Programmed at Glassy Temperature. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2011, 78, .	1.1	46
76	FRP tube encased rubberized concrete cylinders. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011, 44, 233-243.	1.3	44
77	A shape memory polymer based syntactic foam with negative Poisson's ratio. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6804-6811.	2.6	43
78	Thermomechanical constitutive modelling of shape memory polymer including continuum functional and mechanical damage effects. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20140199.	1.0	42
79	Effects of nanoclay morphology on the mechanical, thermal, and fire-retardant properties of vinyl ester based nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 498, 327-334.	2.6	41
80	A new fire resistant FRP for externally bonded concrete repair. <i>Construction and Building Materials</i> , 2013, 42, 87-96.	3.2	41
81	Investigation into FRP repaired RC columns. <i>Composite Structures</i> , 2003, 62, 83-89.	3.1	40
82	Analytical Modeling of Three-Layered HMA Mixtures. <i>International Journal of Geomechanics</i> , 2007, 7, 140-148.	1.3	40
83	Behavior of Thermoset Shape Memory Polymer-Based Syntactic Foam Sealant Trained by Hybrid Two-Stage Programming. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 393-402.	1.3	40
84	Vitrimer based composite laminates with shape memory alloy Z-pins for repeated healing of impact induced delamination. <i>Composites Part B: Engineering</i> , 2020, 200, 108324.	5.9	40
85	Investigation into three-layered HMA mixtures. <i>Composites Part B: Engineering</i> , 2006, 37, 679-690.	5.9	39
86	Effects of bondline thickness on Mode-II interfacial laws of bonded laminated composite plate. <i>International Journal of Fracture</i> , 2011, 168, 197-207.	1.1	39
87	Repair of damaged RC columns using fast curing FRP composites. <i>Composites Part B: Engineering</i> , 2003, 34, 261-271.	5.9	38
88	Experimental study of FRP tube encased concrete cylinders exposed to fire. <i>Composite Structures</i> , 2008, 85, 149-154.	3.1	38
89	A CaO enhanced rubberized syntactic foam. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 1404-1411.	3.8	37
90	Finite difference three-dimensional solution of stresses in adhesively bonded composite tubular joint subjected to torsion. <i>International Journal of Adhesion and Adhesives</i> , 2010, 30, 191-199.	1.4	37

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91	Expandable proppants to moderate production drop in hydraulically fractured wells. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 55, 182-190.	2.1	37
92	Low velocity impact response of GFRP laminates subjected to cycling moistures. <i>Polymer Composites</i> , 2000, 21, 686-695.	2.3	36
93	Room-Temperature Self-Healable and Mechanically Robust Thermoset Polymers for Healing Delamination and Recycling Carbon Fibers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53099-53110.	4.0	36
94	Local Damage Evolution of Double Cantilever Beam Specimens During Crack Initiation Process: A Natural Boundary Condition Based Method. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2009, 76, .	1.1	34
95	On Approximately Realizing and Characterizing Pure Mode-I Interface Fracture Between Bonded Dissimilar Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2011, 78, .	1.1	34
96	Quantifying the contributions of energy storage in a thermoset shape memory polymer with high stress recovery: A molecular dynamics study. <i>Polymer</i> , 2021, 213, 123319.	1.8	34
97	Experimental Study of FRP Tube-encased Concrete Columns. <i>Journal of Composite Materials</i> , 2005, 39, 1131-1145.	1.2	32
98	Machine learning assisted discovery of new thermoset shape memory polymers based on a small training dataset. <i>Polymer</i> , 2021, 214, 123351.	1.8	32
99	Analytical modeling of tensile strength of particulate-filled composites. <i>Polymer Composites</i> , 2001, 22, 593-603.	2.3	31
100	Debonding and impact tolerant sandwich panel with hybrid foam core. <i>Composite Structures</i> , 2013, 103, 143-150.	3.1	30
101	Investigation into stress recovery behavior of shape memory polyurethane fiber. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1429-1440.	2.4	30
102	Recycling Thermoset Epoxy Resin Using Alkyl-Methyl-Imidazolium Ionic Liquids as Green Solvents. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5588-5595.	2.0	30
103	Investigation of prepreg bonded composite single lap joint. <i>Composites Part B: Engineering</i> , 2001, 32, 651-658.	5.9	29
104	A cement based syntactic foam. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 478, 77-86.	2.6	29
105	Cyclic stress-strain behavior of shape memory polymer based syntactic foam programmed by 2-D stress condition. <i>Polymer</i> , 2011, 52, 4571-4580.	1.8	29
106	Healing of shape memory polyurethane fiber-reinforced syntactic foam subjected to tensile stress. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 1792-1801.	1.4	29
107	Giant reversible elongation upon cooling and contraction upon heating for a crosslinked cis poly(1,4-butadiene) system at temperatures below zero Celsius. <i>Scientific Reports</i> , 2018, 8, 14233.	1.6	29
108	Influence of ultraviolet radiation on the low velocity impact response of laminated beams. <i>Composites Part B: Engineering</i> , 2001, 32, 521-528.	5.9	28

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109	Degradation evaluation index of asphalt pavement based on mechanical performance of asphalt mixture. <i>Construction and Building Materials</i> , 2017, 140, 75-81.	3.2	28
110	A crack healable syntactic foam reinforced by 3D printed healing-agent based honeycomb. <i>Composites Part B: Engineering</i> , 2018, 151, 25-34.	5.9	27
111	Fishing line artificial muscle reinforced composite for impact mitigation and on-demand damage healing. <i>Journal of Composite Materials</i> , 2016, 50, 4235-4249.	1.2	26
112	Influence of laser processing parameters on the surface characteristics of 316L stainless steel manufactured by selective laser melting. <i>Materials Today: Proceedings</i> , 2020, 26, 387-393.	0.9	26
113	Fast repair of laminated beams using UV curing composites. <i>Composite Structures</i> , 2003, 60, 73-81.	3.1	25
114	Light intensity effect on UV cured FRP coupled composite pipe joints. <i>Composite Structures</i> , 2004, 64, 539-546.	3.1	25
115	Fast joining of composite pipes using UV curing FRP composites. <i>Polymer Composites</i> , 2004, 25, 298-306.	2.3	25
116	Experimental study of hybrid composite cylinders. <i>Composite Structures</i> , 2007, 78, 170-181.	3.1	25
117	Stress analyses of a smart composite pipe joint integrated with piezoelectric composite layers under torsion loading. <i>International Journal of Solids and Structures</i> , 2008, 45, 1153-1178.	1.3	25
118	Durability of shape memory polymer based syntactic foam under accelerated hydrolytic ageing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7444-7450.	2.6	24
119	Impact tolerant and healable aluminum millitube reinforced shape memory polymer composite sandwich core. <i>Materials & Design</i> , 2013, 51, 79-87.	5.1	24
120	Spider-silk-like shape memory polymer fiber for vibration damping. <i>Smart Materials and Structures</i> , 2014, 23, 105032.	1.8	24
121	Metaheuristic-based inverse design of materials – A survey. <i>Journal of Materiomics</i> , 2020, 6, 414-430.	2.8	24
122	Loss circulation prevention in geothermal drilling by shape memory polymer. <i>Geothermics</i> , 2021, 89, 101943.	1.5	24
123	Shape memory alloy reinforced vitrimer composite for healing wide-opened cracks. <i>Smart Materials and Structures</i> , 2020, 29, 065008.	1.8	24
124	Stiffness Degradation of FRP Strengthened RC Beams Subjected to Hygrothermal and Aging Attacks. <i>Journal of Composite Materials</i> , 2002, 36, 795-812.	1.2	23
125	Multiscale modeling of vibration damping response of shape memory polymer fibers. <i>Composites Part B: Engineering</i> , 2016, 91, 306-314.	5.9	22
126	3D printable biomimetic rod with superior buckling resistance designed by machine learning. <i>Scientific Reports</i> , 2020, 10, 20716.	1.6	21

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127	A Mechanism-Based Four-Chain Constitutive Model for Enthalpy-Driven Thermoset Shape Memory Polymers With Finite Deformation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	1.1	21
128	Adhesively bonded healable composite joint. <i>International Journal of Adhesion and Adhesives</i> , 2012, 35, 59-67.	1.4	20
129	Stress memory of a thermoset shape memory polymer. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	20
130	Bio-inspired crack self-healing of SiC/spinel nanocomposite. <i>Ceramics International</i> , 2015, 41, 2828-2835.	2.3	20
131	Structural characterization and strengthening mechanism of forsterite nanostructured scaffolds synthesized by multistep sintering method. <i>Journal of Materials Science and Technology</i> , 2018, 34, 2263-2270.	5.6	20
132	Shape Memory Polymers as Lost Circulation Materials for Sealing Wide-Opened Natural Fractures. <i>SPE Drilling and Completion</i> , 2021, 36, 931-942.	0.9	20
133	Advanced Grid Stiffened Fiber Reinforced Plastic Tube Encased Concrete Cylinders. <i>Journal of Composite Materials</i> , 2007, 41, 1803-1824.	1.2	19
134	Shape Memory Polymer-Based Sealant for a Compression Sealed Joint. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	18
135	High-temperature shape memory photopolymer with intrinsic flame retardancy and record-high recovery stress. <i>Applied Materials Today</i> , 2021, 23, 101056.	2.3	18
136	Development of a smart composite pipe joint integrated with piezoelectric layers under tensile loading. <i>International Journal of Solids and Structures</i> , 2006, 43, 5370-5385.	1.3	17
137	Fast repair of damaged RC beams using UV curing FRP composites. <i>Composite Structures</i> , 2006, 72, 105-110.	3.1	17
138	Interfacial debonding of pipe joints under torsion loads: a model for arbitrary nonlinear cohesive laws. <i>International Journal of Fracture</i> , 2009, 155, 19-31.	1.1	17
139	Analytical modeling of particle size and cluster effects on particulate-filled composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999, 271, 43-52.	2.6	16
140	Joining composite pipes using hybrid prepreg welding and adhesive bonding. <i>Polymer Composites</i> , 2003, 24, 697-705.	2.3	16
141	A Generalized Analytical Modeling of Grid Stiffened Composite Structures. <i>Journal of Composite Materials</i> , 2007, 41, 2939-2969.	1.2	16
142	UV-cured FRP joint thickness effect on coupled composite pipes. <i>Composite Structures</i> , 2007, 80, 290-297.	3.1	16
143	Experimental investigation into the interfacial shear strength of AGS-FRP tube confined concrete pile. <i>Engineering Structures</i> , 2009, 31, 2309-2316.	2.6	16
144	Chloride-ion concentration flow cells for efficient salinity gradient energy recovery with bismuth oxychloride electrodes. <i>Electrochimica Acta</i> , 2019, 322, 134724.	2.6	16

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145	Local buckling analysis of composite laminate with large delaminations induced by low velocity impact. <i>Polymer Composites</i> , 1999, 20, 634-642.	2.3	15
146	Healing of polymeric artificial muscle reinforced ionomer composite by resistive heating. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	15
147	Effect of confinement level and local heating on healing efficiency of self-healing particulate composites. <i>Composites Part B: Engineering</i> , 2016, 97, 344-352.	5.9	15
148	Effect of atomistic fingerprints on thermomechanical properties of epoxy-diamine thermoset shape memory polymers. <i>Polymer</i> , 2022, 242, 124577.	1.8	15
149	From Drug Molecules to Thermoset Shape Memory Polymers: A Machine Learning Approach. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60508-60521.	4.0	15
150	Design and analysis of a smart composite pipe joint system integrated with piezoelectric layers under bending. <i>International Journal of Solids and Structures</i> , 2007, 44, 298-319.	1.3	14
151	Analysis of an adhesively bonded single-strap joint integrated with shape memory alloy (SMA) reinforced layers. <i>International Journal of Solids and Structures</i> , 2007, 44, 3557-3574.	1.3	14
152	Sintering behavior, microstructure and mechanical properties of vacuum sintered SiC/spinel nanocomposite. <i>Journal of Alloys and Compounds</i> , 2014, 615, 204-210.	2.8	14
153	Synthesis, characterization and formation mechanism of SiC/spinel nanocomposite. <i>Journal of Alloys and Compounds</i> , 2014, 598, 106-112.	2.8	13
154	Crack healing and strength recovery in SiC/spinel nanocomposite. <i>Ceramics International</i> , 2015, 41, 8702-8709.	2.3	13
155	Dynamic delamination in laminated fiber reinforced composites: A continuum damage mechanics approach. <i>International Journal of Solids and Structures</i> , 2015, 71, 262-276.	1.3	13
156	Machine learning assisted design of new lattice core for sandwich structures with superior load carrying capacity. <i>Scientific Reports</i> , 2021, 11, 18552.	1.6	13
157	Evaluating sealability of blended smart polymer and fiber additive for geothermal drilling with the effect of fracture opening size. <i>Journal of Petroleum Science and Engineering</i> , 2021, 206, 108998.	2.1	13
158	Strain rate effect on the thermomechanical behavior of a thermoset shape memory polymer. <i>Smart Materials and Structures</i> , 2013, 22, 085033.	1.8	12
159	A polycaprolactone-based syntactic foam with bidirectional reversible actuation. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45225.	1.3	12
160	Design oriented constitutive modeling of amorphous shape memory polymers and Its application to multiple length scale lattice structures. <i>Smart Materials and Structures</i> , 2019, 28, 095030.	1.8	12
161	A brief review of sealants for cement concrete pavement joints and cracks. <i>Road Materials and Pavement Design</i> , 2022, 23, 1467-1491.	2.0	12
162	A Thermoset Shape Memory Polymer-Based Syntactic Foam with Flame Retardancy and 3D Printability. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1183-1195.	2.0	12

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163	Impact Response of a Composite Laminate Bonded to a Metal Substrate. <i>Journal of Composite Materials</i> , 2001, 35, 237-252.	1.2	11
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