

# Guoqiang Li

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/145120/publications.pdf>

Version: 2024-02-01

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 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
2	Experimental study on rheological and settling properties of shape memory polymer for fracture sealing in geothermal formations. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109535.	2.1	8
3	Neural-Network-Based Nonlinear Tomlinson-Harashima Precoding for Bandwidth-Limited Underwater Visible Light Communication. <i>Journal of Lightwave Technology</i> , 2022, 40, 2296-2306.	2.7	17
4	Position-Dependent MIMO Demultiplexing Strategy for High-Speed Visible Light Communication in Internet of Vehicles. <i>IEEE Internet of Things Journal</i> , 2022, 9, 10833-10850.	5.5	10
5	46.4 Gbps visible light communication system utilizing a compact tricolor laser transmitter. <i>Optics Express</i> , 2022, 30, 4365.	1.7	18
6	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
7	Development in liquid crystal microcapsules: fabrication, optimization and applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, 413-432.	2.7	16
8	Effect of atomistic fingerprints on thermomechanical properties of epoxy-diamine thermoset shape memory polymers. <i>Polymer</i> , 2022, 242, 124577.	1.8	15
9	Overview of Liquid Crystal Biosensors: From Basic Theory to Advanced Applications. <i>Biosensors</i> , 2022, 12, 205.	2.3	11
10	Tutorial: Thermomechanical constitutive modeling of shape memory polymers. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	2
11	A soft syntactic foam actuator with high recovery stress, actuation strain, and energy output. <i>Materials Today Communications</i> , 2022, 31, 103303.	0.9	7
12	UV curable, flame retardant, and pressure-sensitive adhesives with two-way shape memory effect. <i>Polymer</i> , 2022, 249, 124835.	1.8	11
13	A laminated vitrimer composite with strain sensing, delamination self-healing, deicing, and room-temperature shape restoration properties. <i>Journal of Composite Materials</i> , 2022, 56, 2267-2278.	1.2	8
14	Hyperspectral Anomaly Detection Using Deep Learning: A Review. <i>Remote Sensing</i> , 2022, 14, 1973.	1.8	36
15	Advances in Photoelectric Detection Units for Imaging Based on Perovskite Materials. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	9
16	Modelling of cohesive expandable LCMs for fractures with large apertures. <i>Geothermics</i> , 2022, 104, 102466.	1.5	5
17	Design and Applications of Liquid Crystal Biophotonic Sensors for Ion Detection. <i>Advanced Photonics Research</i> , 2022, 3, .	1.7	4
18	A hybrid shape memory polymer filled metallic foam composite: shape restoring, strain sensing, Joule heating, strengthening, and toughening. <i>Smart Materials and Structures</i> , 2022, 31, 095009.	1.8	2

#	ARTICLE	IF	CITATIONS
19	Deep learning based end-to-end visible light communication with an in-band channel modeling strategy. <i>Optics Express</i> , 2022, 30, 28905.	1.7	19
20	Nanosilica-treated shape memory polymer fibers to strengthen wellbore cement. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 107646.	2.1	8
21	Loss circulation prevention in geothermal drilling by shape memory polymer. <i>Geothermics</i> , 2021, 89, 101943.	1.5	24
22	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
23	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
24	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
25	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
26	Si-substrate LEDs with multiple superlattice interlayers for beyond 24â€‰%â€‰Gbps visible light communication. <i>Photonics Research</i> , 2021, 9, 1581.	3.4	35
27	Numerical study of the heating effects of high intensity focused ultrasound on shape memory polymer fiber reinforced self-healing polymer composite. <i>Smart Materials and Structures</i> , 2021, 30, 085026.	1.8	4
28	Catalyst-free Î²-hydroxy phosphate ester exchange for robust fire-proof vitrimers. <i>Chemical Engineering Journal</i> , 2021, 417, 129132.	6.6	73
29	SnapHiC: a computational pipeline to identify chromatin loops from single-cell Hi-C data. <i>Nature Methods</i> , 2021, 18, 1056-1059.	9.0	46
30	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
31	Demonstration of Flexible Access in Rate-Adaptive Visible Light Communication System with Constellation Probabilistic Shaping. <i>Optics Express</i> , 2021, 29, 34441-34451.	1.7	3
32	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
33	Influence of uniaxial compression on the shape memory behavior of vitrimer composite embedded with tensionâ€‰programmed unidirectional shape memory polymer fibers. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50429.	1.3	7
34	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
35	Room-Temperature Self-Healable and Mechanically Robust Thermoset Polymers for Healing Delamination and Recycling Carbon Fibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 53099-53110.	4.0	36
36	Discovery of Cellular Unit Cells With High Natural Frequency and Energy Absorption Capabilities by an Inverse Machine Learning Framework. <i>Frontiers in Mechanical Engineering</i> , 2021, 7, .	0.8	5

#	ARTICLE	IF	CITATIONS
37	A New Action Recognition Framework for Video Highlights Summarization in Sporting Events. , 2021, , .		11
38	From Drug Molecules to Thermoset Shape Memory Polymers: A Machine Learning Approach. ACS Applied Materials & Interfaces, 2021, 13, 60508-60521.	4.0	15
39	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
40	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
41	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
42	3D printable biomimetic rod with superior buckling resistance designed by machine learning. Scientific Reports, 2020, 10, 20716.	1.6	21
43	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
44	Versatile Phosphate Diester-Based Flame Retardant Vitrimers via Catalyst-Free Mixed Transesterification. ACS Applied Materials & Interfaces, 2020, 12, 57486-57496.	4.0	73
45	Advanced Modulation Format of Probabilistic Shaping Bit Loading for 450-nm GaN Laser Diode based Visible Light Communication. Sensors, 2020, 20, 6143.	2.1	9
46	Stimuli-responsive petroleum cement composite with giant expansion and enhanced mechanical properties. Construction and Building Materials, 2020, 259, 119783.	3.2	8
47	A phenomenological constitutive model for semicrystalline two-way shape memory polymers. International Journal of Mechanical Sciences, 2020, 177, 105552.	3.6	50
48	Metaheuristic-based inverse design of materials “ A survey. Journal of Materiomics, 2020, 6, 414-430.	2.8	24
49	Smart Expandable Fiber Additive To Prevent Formation of Microannuli. SPE Drilling and Completion, 2020, 35, 490-502.	0.9	6
50	Shape memory alloy reinforced vitrimer composite for healing wide-opened cracks. Smart Materials and Structures, 2020, 29, 065008.	1.8	24
51	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
52	Smart lost circulation materials for productive zones. Journal of Petroleum Exploration and Production, 2019, 9, 281-296.	1.2	50
53	Joint profiling of DNA methylation and chromatin architecture in single cells. Nature Methods, 2019, 16, 991-993.	9.0	155
54	Chloride-ion concentration flow cells for efficient salinity gradient energy recovery with bismuth oxychloride electrodes. Electrochimica Acta, 2019, 322, 134724.	2.6	16

#	ARTICLE	IF	CITATIONS
55	4D Printing of Recyclable Lightweight Architectures Using High Recovery Stress Shape Memory Polymer. <i>Scientific Reports</i> , 2019, 9, 7621.	1.6	59
56	Evolutionary transition between invertebrates and vertebrates via methylation reprogramming in embryogenesis. <i>National Science Review</i> , 2019, 6, 993-1003.	4.6	58
57	A "cross-relaxation effects" model for dynamic exchange of water in amorphous polymer with thermochemical shape memory effect. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 345305.	1.3	7
58	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
59	Multireusable Thermoset with Anomalous Flame-Triggered Shape Memory Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 16075-16086.	4.0	79
60	A High-Efficiency Low-Power Chip-Based CMOS Liquid Crystal Driver for Tunable Electro-Optic Eyewear. <i>Electronics (Switzerland)</i> , 2019, 8, 14.	1.8	2
61	Fracture behavior characterization of arcan polycaprolactone based polymer composites prepared by polymerization induced phases separation. <i>Polymer Composites</i> , 2019, 40, 1198-1208.	2.3	3
62	TRANSIENT FEM SIMULATION OF 316L STAINLESS STEEL FABRICATED BY SELECTIVE LASER MELTING WITH DIFFERENT PROCESSING PARAMETERS.. , 2019, , .		0
63	Parametric Study of SLM Processing Parameters on In-Situ Residual Stress. , 2019, , .		0
64	A Study of Hybrid Composite Sandwich Beam. , 2019, , .		0
65	Prediction of Remaining Service Life of Asphalt Pavement Using Dissipated Energy Method. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2018, 144, 04018011.	0.8	3
66	Crack-healing in ceramics. <i>Composites Part B: Engineering</i> , 2018, 144, 56-87.	5.9	62
67	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. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 509, 24-32.	1.0	50
68	Orbital scale lake evolution in the Ejina Basin, central Gobi Desert, China revealed by K-feldspar luminescence dating of paleolake shoreline features. <i>Quaternary International</i> , 2018, 482, 109-121.	0.7	16
69	High enthalpy storage thermoset network with giant stress and energy output in rubbery state. <i>Nature Communications</i> , 2018, 9, 642.	5.8	65
70	Fine-grained quartz OSL dating chronology of loess sequence from southern Tajikistan: Implications for climate change in arid central Asia during MIS 2. <i>Journal of Asian Earth Sciences</i> , 2018, 155, 116-123.	1.0	15
71	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
72	Conjugation of Nanomaterials and Nematic Liquid Crystals for Futuristic Applications and Biosensors. <i>Biosensors</i> , 2018, 8, 69.	2.3	16

#	ARTICLE	IF	CITATIONS
73	Smart Expandable Polymer Cement Additive to Improve Zonal Isolation. , 2018, , .		7
74	Concentration Flow Cells Based on Chloride-Ion Extraction and Insertion with Metal Chloride Electrodes for Efficient Salinity Gradient Energy Harvest. ACS Sustainable Chemistry and Engineering, 2018, 6, 15212-15218.	3.2	8
75	A CNN-SIFT Hybrid Pedestrian Navigation Method Based on First-Person Vision. Remote Sensing, 2018, 10, 1229.	1.8	19
76	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
77	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
78	Expandable proppants to moderate production drop in hydraulically fractured wells. Journal of Natural Gas Science and Engineering, 2018, 55, 182-190.	2.1	37
79	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
80	Dating Human Settlement in the East-Central Tibetan Plateau during the Late Holocene. Radiocarbon, 2018, 60, 137-150.	0.8	9
81	DNA methylation reprogramming of functional elements during mammalian embryonic development. Cell Discovery, 2018, 4, 41.	3.1	51
82	A crack healable syntactic foam reinforced by 3D printed healing-agent based honeycomb. Composites Part B: Engineering, 2018, 151, 25-34.	5.9	27
83	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
84	Late Quaternary lake evolution in the Gaxun Nur basin, central Gobi Desert, China, based on quartz OSL and K-feldspar pIRIR dating of paleoshorelines. Journal of Quaternary Science, 2017, 32, 347-361.	1.1	16
85	Degradation evaluation index of asphalt pavement based on mechanical performance of asphalt mixture. Construction and Building Materials, 2017, 140, 75-81.	3.2	28
86	Two-Step Sintering Effects on the Microstructure and Mechanical Properties of Forsterite Scaffolds. Minerals, Metals and Materials Series, 2017, , 353-359.	0.3	0
87	A polycaprolactone-based syntactic foam with bidirectional reversible actuation. Journal of Applied Polymer Science, 2017, 134, 45225.	1.3	12
88	Optically reconfigurable chiral microspheres of self-organized helical superstructures with handedness inversion. Materials Horizons, 2017, 4, 1190-1195.	6.4	83
89	Recyclable high-performance epoxy based on transesterification reaction. Journal of Materials Chemistry A, 2017, 5, 21505-21513.	5.2	138
90	Genome wide abnormal DNA methylome of human blastocyst in assisted reproductive technology. Journal of Genetics and Genomics, 2017, 44, 475-481.	1.7	30

#	ARTICLE	IF	CITATIONS
91	The luminescence dating chronology of a deep core from Bosten Lake (<scp>NW</scp> China) in arid central Asia reveals lake evolution over the last 220Åka. <i>Boreas</i> , 2017, 46, 264-281.	1.2	3
92	Healing of polymeric artificial muscle reinforced ionomer composite by resistive heating. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	15
93	Cold, warm, and hot programming of shape memory polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1319-1339.	2.4	117
94	Artificial muscles made of chiral two-way shape memory polymer fibers. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	59
95	One-Way Multishape-Memory Effect and Tunable Two-Way Shape Memory Effect of Ionomer Poly(ethylene-<i>co</i>-methacrylic acid). <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14812-14823.	4.0	80
96	Paleoenvironmental changes recorded in a luminescence dated loess/paleosol sequence from the Tianshan Mountains, arid central Asia, since the Penultimate Glaciation. <i>Earth and Planetary Science Letters</i> , 2016, 448, 1-12.	1.8	57
97	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
98	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
99	Small-Molecule Targeting of E3 Ligase Adaptor SPOP in Kidney Cancer. <i>Cancer Cell</i> , 2016, 30, 474-484.	7.7	74
100	Intrinsic healable and recyclable thermoset epoxy based on shape memory effect and transesterification reaction. <i>Polymer</i> , 2016, 105, 10-18.	1.8	92
101	Mapping of long-range chromatin interactions by proximity ligation-assisted ChIP-seq. <i>Cell Research</i> , 2016, 26, 1345-1348.	5.7	264
102	Broad histone H3K4me3 domains in mouse oocytes modulate maternal-to-zygotic transition. <i>Nature</i> , 2016, 537, 548-552.	13.7	484
103	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. <i>Quaternary Science Reviews</i> , 2016, 146, 134-146.	1.4	261
104	Multiscale modeling of vibration damping response of shape memory polymer fibers. <i>Composites Part B: Engineering</i> , 2016, 91, 306-314.	5.9	22
105	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
106	Advances in healing-on-demand polymers and polymer composites. <i>Progress in Polymer Science</i> , 2016, 57, 32-63.	11.8	172
107	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
108	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

#	ARTICLE	IF	CITATIONS
109	Special issue on applications of engineering composites: Materials, structures, and interfaces. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401559664.	0.8	0
110	Stress memory of a thermoset shape memory polymer. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	20
111	Oasis evolution processes and mechanisms in the lower reaches of Heihe River, Inner Mongolia, China since 1 ka ago. <i>Holocene</i> , 2015, 25, 445-453.	0.9	2
112	Crack healing and strength recovery in SiC/spinel nanocomposite. <i>Ceramics International</i> , 2015, 41, 8702-8709.	2.3	13
113	Crack-healing in spinel (MgAl <sub>2</sub> O <sub>4</sub> ) ceramic. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 641, 201-209.	2.6	10
114	Shape Memory Polymer-Based Sealant for a Compression Sealed Joint. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	18
115	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
116	Holocene shorelines and lake evolution in Juyanze Basin, southern Mongolian Plateau, revealed by luminescence dating. <i>Holocene</i> , 2015, 25, 1898-1911.	0.9	21
117	Quartz OSL and K-feldspar pIRIR dating of a loess/paleosol sequence from arid central Asia, Tianshan Mountains, NW China. <i>Quaternary Geochronology</i> , 2015, 28, 40-53.	0.6	56
118	Healing-on-demand composites based on polymer artificial muscle. <i>Polymer</i> , 2015, 64, 29-38.	1.8	65
119	A multiscale approach for modeling actuation response of polymeric artificial muscles. <i>Soft Matter</i> , 2015, 11, 3833-3843.	1.2	62
120	Environmental changes in the Ulan Buh Desert, southern Inner Mongolia, China since the middle Pleistocene based on sedimentology, chronology and proxy indexes. <i>Quaternary Science Reviews</i> , 2015, 128, 69-80.	1.4	37
121	Quartz and K-feldspar luminescence dating of a Marine Isotope Stage 5 megalake in the Juyanze Basin, central Gobi Desert, China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 440, 96-109.	1.0	23
122	Bio-inspired crack self-healing of SiC/spinel nanocomposite. <i>Ceramics International</i> , 2015, 41, 2828-2835.	2.3	20
123	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
124	Discovery of a tiger ( <i>Panthera tigris</i> (L.)) skeleton from the Little Ice Age buried on the shore of Qinghai Lake, northeast Tibet Plateau. <i>Quaternary International</i> , 2015, 355, 145-152.	0.7	2
125	Phase Change Fibers and Assemblies. , 2015, , 225-251.		1
126	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

#	ARTICLE	IF	CITATIONS
127	Process of paleofloods in Guanting basin, Qinghai Province, China and possible relation to monsoon strength during the mid-Holocene. <i>Quaternary International</i> , 2014, 321, 88-96.	0.7	19
128	A continuum damage failure model for hydraulic fracturing of porous rocks. <i>International Journal of Plasticity</i> , 2014, 59, 199-212.	4.1	110
129	Novel sandwich panel with metallic millitube grid stiffened polymer core for impact mitigation. <i>Engineering Structures</i> , 2014, 71, 178-186.	2.6	8
130	Programming and Inheritance of Parental DNA Methylomes in Mammals. <i>Cell</i> , 2014, 157, 979-991.	13.5	451
131	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
132	Overbank flooding and human occupation of the Shalongka site in the Upper Yellow River Valley, northeast Tibet Plateau in relation to climate change since the last deglaciation. <i>Quaternary Research</i> , 2014, 82, 354-365.	1.0	9
133	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
134	Spider-silk-like shape memory polymer fiber for vibration damping. <i>Smart Materials and Structures</i> , 2014, 23, 105032.	1.8	24
135	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
136	Mechanical activation assisted synthesis of nanostructure MgAl <sub>2</sub> O <sub>4</sub> from gibbsite and lansfordite. <i>Powder Technology</i> , 2014, 267, 333-338.	2.1	10
137	Synthesis, characterization and formation mechanism of SiC/spinel nanocomposite. <i>Journal of Alloys and Compounds</i> , 2014, 598, 106-112.	2.8	13
138	Landscape evolution of the Ulan Buh Desert in northern China during the late Quaternary. <i>Quaternary Research</i> , 2014, 81, 476-487.	1.0	53
139	SPOP Promotes Tumorigenesis by Acting as a Key Regulatory Hub in Kidney Cancer. <i>Cancer Cell</i> , 2014, 25, 455-468.	7.7	154
140	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. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 393, 111-121.	1.0	30
141	A self-healing particulate composite reinforced with strain hardened short shape memory polymer fibers. <i>Polymer</i> , 2013, 54, 5075-5086.	1.8	93
142	Viscoplasticity analysis of semicrystalline polymers: A multiscale approach within micromechanics framework. <i>International Journal of Plasticity</i> , 2013, 42, 31-49.	4.1	75
143	Optimization of smart adhesively bonded single-strap composite joint. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 879-895.	1.4	1
144	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

#	ARTICLE	IF	CITATIONS
145	Reversible switching transitions of stimuli-responsive shape changing polymers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7838.	5.2	106
146	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
147	Debonding and impact tolerant sandwich panel with hybrid foam core. <i>Composite Structures</i> , 2013, 103, 143-150.	3.1	30
148	A review of stimuli-responsive shape memory polymer composites. <i>Polymer</i> , 2013, 54, 2199-2221.	1.8	960
149	Effect of strain hardening of shape memory polymer fibers on healing efficiency of thermosetting polymer composites. <i>Polymer</i> , 2013, 54, 920-928.	1.8	123
150	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
151	Impact tolerant and healable aluminum millitube reinforced shape memory polymer composite sandwich core. <i>Materials &amp; Design</i> , 2013, 51, 79-87.	5.1	24
152	A new fire resistant FRP for externally bonded concrete repair. <i>Construction and Building Materials</i> , 2013, 42, 87-96.	3.2	41
153	Sperm, but Not Oocyte, DNA Methylome Is Inherited by Zebrafish Early Embryos. <i>Cell</i> , 2013, 153, 773-784.	13.5	428
154	Various shape memory effects of stimuli-responsive shape memory polymers. <i>Smart Materials and Structures</i> , 2013, 22, 093001.	1.8	79
155	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
156	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
157	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
158	Novel Impact/Debonding Tolerant Sandwich Panel With Millitubes Grid Stiffened Foam Core. , 2012, , .		0
159	Shape Memory Polymer With Aluminum Tube Reinforced Impact Resistant Sandwich Core. , 2012, , .		0
160	Multifunctional MWCNT Reinforced Self-Healing System. , 2012, , .		0
161	Healable thermoset polymer composite embedded with stimuli-responsive fibres. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3279-3287.	1.5	95
162	Continuum Damage-Healing Mechanics with Introduction to New Healing Variables. <i>International Journal of Damage Mechanics</i> , 2012, 21, 391-414.	2.4	92

#	ARTICLE	IF	CITATIONS
163	Earlyâ€‘middle Holocene lake-desert evolution in northern Ulan Buh Desert, China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 331-332, 31-38.	1.0	51
164	A review of stimuli-responsive polymers for smart textile applications. <i>Smart Materials and Structures</i> , 2012, 21, 053001.	1.8	467
165	A viscoplastic theory of shape memory polymer fibres with application to self-healing materials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 2319-2346.	1.0	101
166	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
167	Adhesively bonded healable composite joint. <i>International Journal of Adhesion and Adhesives</i> , 2012, 35, 59-67.	1.4	20
168	A generalized coupled viscoplasticâ€‘viscodamageâ€‘viscohealing theory for glassy polymers. <i>International Journal of Plasticity</i> , 2012, 28, 21-45.	4.1	103
169	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
170	Thermomechanical Characterization of Shape Memory Polymerâ€‘Based Self-Healing Syntactic Foam Sealant for Expansion Joints. <i>Journal of Transportation Engineering</i> , 2011, 137, 805-814.	0.9	54
171	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
172	Characterization of Short Basalt Fiber Reinforced Syntactic Foams. , 2011, , .		0
173	Mechanical Properties of New Hybrid Materials: Metallic Foam Filled With Syntactic Foam. , 2011, , .		0
174	Healable and Repeatable Adhesively Bonded Joint. , 2011, , .		0
175	Effects of Adhesive Thickness on Global and Local Mixed Mode I/II Interfacial Fracture of Bonded Steel Joints. , 2011, , .		0
176	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
177	FRP tube encased rubberized concrete cylinders. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011, 44, 233-243.	1.3	44
178	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
179	A shape memory polymer based syntactic foam with negative Poisson's ratio. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6804-6811.	2.6	43
180	Durability of shape memory polymer based syntactic foam under accelerated hydrolytic ageing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7444-7450.	2.6	24

#	ARTICLE	IF	CITATIONS
181	A thermodynamic consistent damage and healing model for self healing materials. International Journal of Plasticity, 2011, 27, 1025-1044.	4.1	184
182	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
183	A Shape Memory Polymer Based Self-Healing Syntactic Foam Sealant for Expansion Joint. , 2011, , .		1
184	Impact/Debonding Tolerant Sandwich Panel With Aluminum Tube Reinforced Foam Core. , 2011, , .		0
185	A Smart Polymer Composite for Repeatedly Self-Healing Impact Damage in Fiber Reinforced Polymer (FRP) Vessels. , 2011, , .		0
186	Drought/Flood change in the Guanzhong region between the 8 <sup>th</sup> and the 13 <sup>th</sup> Century. , 2011, , .		1
187	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
188	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
189	Nonlinear Model of Torsional Fracture in Adhesive Pipe Joints. , 2010, , .		0
190	Effect of Adhesive Thickness on Interfacial Fracture of Bonded Steel Joints. , 2010, , .		0
191	A New Idea of Pure Mode-I Fracture Test of Bonded Bi-Materials. , 2010, , .		1
192	Shape memory polymer based self-healing syntactic foam: 3-D confined thermomechanical characterization. Composites Science and Technology, 2010, 70, 1419-1427.	3.8	190
193	Thermomechanical characterization of a shape memory polymer based self-repairing syntactic foam. Polymer, 2010, 51, 755-762.	1.8	219
194	A biomimic shape memory polymer based self-healing particulate composite. Polymer, 2010, 51, 6021-6029.	1.8	176
195	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
196	Constitutive modeling of shape memory polymer based self-healing syntactic foam. International Journal of Solids and Structures, 2010, 47, 1306-1316.	1.3	146
197	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
198	Effect of Bondline Thickness on Interfacial Fracture of Laminated Composite Materials. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
199	Self-healing of sandwich structures with a grid stiffened shape memory polymer syntactic foam core. <i>Smart Materials and Structures</i> , 2010, 19, 075013.	1.8	93
200	A self-healing 3D woven fabric reinforced shape memory polymer composite for impact mitigation. <i>Smart Materials and Structures</i> , 2010, 19, 035007.	1.8	105
201	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
202	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
203	Strength Enhancement of Advanced Grid Stiffened FRP Tube Confined Concrete Cylinders under Fire. <i>Journal of Composite Materials</i> , 2009, 43, 2555-2569.	1.2	4
204	Buckling of functionally graded and elastically restrained non-uniform columns. <i>Composites Part B: Engineering</i> , 2009, 40, 393-403.	5.9	73
205	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
206	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
207	Interactions of multiple parallel symmetric permeable mode-III cracks in a piezoelectric material plane. <i>European Journal of Mechanics, A/Solids</i> , 2009, 28, 728-737.	2.1	13
208	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
209	Nonlinear interface shear fracture of end notched flexure specimens. <i>International Journal of Solids and Structures</i> , 2009, 46, 2659-2668.	1.3	54
210	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
211	A self-healing smart syntactic foam under multiple impacts. <i>Composites Science and Technology</i> , 2008, 68, 3337-3343.	3.8	177
212	Experimental study of FRP tube encased concrete cylinders exposed to fire. <i>Composite Structures</i> , 2008, 85, 149-154.	3.1	38
213	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
214	A crumb rubber modified syntactic foam. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 474, 390-399.	2.6	49
215	A cement based syntactic foam. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 478, 77-86.	2.6	29
216	Effects of nanoclay morphology on the mechanical, thermal, and fire-retardant properties of vinyl ester based nanocomposite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 498, 327-334.	2.6	41

#	ARTICLE	IF	CITATIONS
217	A CaO enhanced rubberized syntactic foam. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1404-1411.	3.8	37
218	Fabricating, Testing, and Modeling of Advanced Grid Stiffened Fiber Reinforced Polymer Tube Encased Concrete Cylinders. Journal of Composite Materials, 2008, 42, 1103-1124.	1.2	11
219	Advanced Grid Stiffened Fiber Reinforced Plastic Tube Encased Concrete Cylinders. Journal of Composite Materials, 2007, 41, 1803-1824.	1.2	19
220	Development of rubberized syntactic foam. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1483-1492.	3.8	73
221	Analytical Modeling of Three-Layered HMA Mixtures. International Journal of Geomechanics, 2007, 7, 140-148.	1.3	40
222	A Generalized Analytical Modeling of Grid Stiffened Composite Structures. Journal of Composite Materials, 2007, 41, 2939-2969.	1.2	16
223	Design and analysis of a smart adhesive single-strap joint system integrated with the piezoelectrics reinforced composite layers. Composites Science and Technology, 2007, 67, 1264-1274.	3.8	11
224	Experimental study of hybrid composite cylinders. Composite Structures, 2007, 78, 170-181.	3.1	25
225	Impact and post impact response of laminated beams at low temperatures. Composite Structures, 2007, 79, 12-17.	3.1	70
226	UV-cured FRP joint thickness effect on coupled composite pipes. Composite Structures, 2007, 80, 290-297.	3.1	16
227	Experimental study of hybrid composite beams. Construction and Building Materials, 2007, 21, 601-608.	3.2	6
228	Design and analysis of a smart composite pipe joint system integrated with piezoelectric layers under bending. International Journal of Solids and Structures, 2007, 44, 298-319.	1.3	14
229	Analysis of an adhesively bonded single-strap joint integrated with shape memory alloy (SMA) reinforced layers. International Journal of Solids and Structures, 2007, 44, 3557-3574.	1.3	14
230	Blast Response Analysis of Composite Plate by Multi-Domain Hermite Differential Quadrature Method (MD-HDQ). , 2007, , .		0
231	Microstructure Enhanced Heat Exchanger for Pressurized Water Reactor. , 2007, , .		0
232	Fusion and Visualization of 3D Image and Elevation Data in Computer Automated Virtual Environment (CAVE). , 2006, , 1.		0
233	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
234	Investigation into three-layered HMA mixtures. Composites Part B: Engineering, 2006, 37, 679-690.	5.9	39

#	ARTICLE	IF	CITATIONS
235	Fast repair of damaged RC beams using UV curing FRP composites. Composite Structures, 2006, 72, 105-110.	3.1	17
236	Free vibration and physical parameter identification of non-uniform composite beams. Composite Structures, 2006, 74, 37-50.	3.1	32
237	Effect of fiber orientation on the structural behavior of FRP wrapped concrete cylinders. Composite Structures, 2006, 74, 475-483.	3.1	74
238	Experimental study of FRP confined concrete cylinders. Engineering Structures, 2006, 28, 1001-1008.	2.6	92
239	Laboratory investigation of portland cement concrete containing recycled asphalt pavements. Cement and Concrete Research, 2005, 35, 2008-2013.	4.6	212
240	Investigation into Waste Tire Rubber-Filled Concrete. Journal of Materials in Civil Engineering, 2004, 16, 187-194.	1.3	161
241	Ultrasonic Signal Attenuation in Syntactic Foams Filled With Rubber Particles. , 2004, , 25.		0
242	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
243	Waste tire fiber modified concrete. Composites Part B: Engineering, 2004, 35, 305-312.	5.9	137
244	Light intensity effect on UV cured FRP coupled composite pipe joints. Composite Structures, 2004, 64, 539-546.	3.1	25
245	Fast joining of composite pipes using UV curing FRP composites. Polymer Composites, 2004, 25, 298-306.	2.3	25
246	Development of waste tire modified concrete. Cement and Concrete Research, 2004, 34, 2283-2289.	4.6	266
247	Fast repair of laminated beams using UV curing composites. Composite Structures, 2003, 60, 73-81.	3.1	25
248	Investigation into FRP repaired RC columns. Composite Structures, 2003, 62, 83-89.	3.1	40
249	Buckling load analysis of grid stiffened composite cylinders. Composites Part B: Engineering, 2003, 34, 1-9.	5.9	160
250	Repair of damaged RC columns using fast curing FRP composites. Composites Part B: Engineering, 2003, 34, 261-271.	5.9	38
251	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
252	Buckling analysis of a taper-taper adhesive-bonded composite joint. Polymer Composites, 2003, 24, 45-52.	2.3	7

#	ARTICLE	IF	CITATIONS
253	Development of high-pressure composite butt-weld joints. Polymer Composites, 2003, 24, 60-67.	2.3	6
254	Joining composite pipes using hybrid prepreg welding and adhesive bonding. Polymer Composites, 2003, 24, 697-705.	2.3	16
255	Stiffness Degradation of FRP Strengthened RC Beams Subjected to Hygrothermal and Aging Attacks. Journal of Composite Materials, 2002, 36, 795-812.	1.2	23
256	Buckling Analysis of a Taper-Taper Adhesive-Bonded Composite Joint. , 2002, , 169.		0
257	Preliminary Analysis of Grid Stiffened Composite Cylinders. , 2002, , 589.		3
258	Shear Strength Characteristics of an Ultrasonic Welded Lap Shear Joint. , 2002, , .		1
259	Development of High Pressure Composite Butt-Weld Joint. , 2002, , .		0
260	Influence of ultraviolet radiation on the low velocity impact response of laminated beams. Composites Part B: Engineering, 2001, 32, 521-528.	5.9	28
261	Investigation of prepreg bonded composite single lap joint. Composites Part B: Engineering, 2001, 32, 651-658.	5.9	29
262	Analytical modeling of tensile strength of particulate-filled composites. Polymer Composites, 2001, 22, 593-603.	2.3	31
263	Low velocity impact response of GFRP laminates subjected to cycling moistures. Polymer Composites, 2000, 21, 686-695.	2.3	36
264	Micromechanical Modeling of Polymer Modified Asphalt at Low Temperatures. Journal of Elastomers and Plastics, 2000, 32, 283-301.	0.7	6
265	Laboratory Studies on Cement-Asphalt Emulsion Composite. Transportation Research Record, 1999, 1652, 210-214.	1.0	2
266	Local buckling analysis of composite laminate with large delaminations induced by low velocity impact. Polymer Composites, 1999, 20, 634-642.	2.3	15
267	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
268	Four-phase sphere modeling of effective bulk modulus of concrete. Cement and Concrete Research, 1999, 29, 839-845.	4.6	134
269	Effective Young's modulus estimation of concrete. Cement and Concrete Research, 1999, 29, 1455-1462.	4.6	95
270	Elastic Modulus Prediction of Asphalt Concrete. Journal of Materials in Civil Engineering, 1999, 11, 236-241.	1.3	93

#	ARTICLE	IF	CITATIONS
271	General Analytical Solutions for Dynamic Load-carrying Capacity of Brittle Materials Under an Arbitrary Incident Stress Wave. International Journal of Applied Mechanics, 0, , .	1.3	2
272	Laboratory Investigation of Mixing Hot-Mix Asphalt with Reclaimed Asphalt Pavement. , 0, .		111
273	Combination of shape-memory capability and self-assembly to plug wide remote fractures. MRS Communications, 0, , .	0.8	6