

Qingbao Guan

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

3,509
citations

147566

31
h-index

143772

57
g-index

78
all docs

78
docs citations

78
times ranked

3515
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative Chemical Coupling and Physical Lubrication Effects Construct Highly Dynamic Ionic Covalent Adaptable Network for High-Performance Wearable Electronics. <i>CCS Chemistry</i> , 2023, 5, 1096-1107.	4.6	16
2	Highly Transparent, Stretchable, and Self-Healable Ionogel for Multifunctional Sensors, Triboelectric Nanogenerator, and Wearable Fibrous Electronics. <i>Advanced Fiber Materials</i> , 2022, 4, 98-107.	7.9	83
3	Photo-responsive shape memory polymer composites enabled by doping with biomass-derived carbon nanomaterials. <i>Nano Research</i> , 2022, 15, 1383-1392.	5.8	20
4	Highly efficient self-healable and robust fluorinated polyurethane elastomer for wearable electronics. <i>Chemical Engineering Journal</i> , 2022, 430, 133081.	6.6	46
5	A fluorine-rich phenolic polyurethane elastomer with excellent self-healability and reprocessability and its applications for wearable electronics. <i>Science China Materials</i> , 2022, 65, 2553-2564.	3.5	10
6	Magnetic nanostructure and biomolecule synergistically promoted Suaeda-inspired self-healing hydrogel composite for seawater evaporation. <i>Science of the Total Environment</i> , 2022, 830, 154545.	3.9	12
7	Supertough spontaneously self-healing polymer based on septuple dynamic bonds integrated in one chemical group. <i>Science China Chemistry</i> , 2022, 65, 363-372.	4.2	28
8	Liquid Crystalline Thermosetting Composites-Based Triboelectric Nanogenerators with Intrinsic Flame Retardancy. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	5
9	Peptidoglycan-inspired autonomous ultrafast self-healing bio-friendly elastomers for bio-integrated electronics. <i>National Science Review</i> , 2021, 8, nwaal154.	4.6	52
10	Biomimetic multifunctional E-skins integrated with mechanoluminescence and chemical sensing abilities. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2815-2822.	2.7	19
11	Preparation and Properties of Polyacrylamide/Sodium Alginate Hydrogel and the Effect of Fe Adsorption on Its Mechanical Performance. <i>Journal of Renewable Materials</i> , 2021, 9, 1447-1462.	1.1	13
12	Thermoplastic Photoheating Polymer Enables 3D-Printed Self-Healing Light-Propelled Smart Devices. <i>Advanced Functional Materials</i> , 2021, 31, 2009568.	7.8	22
13	Preparation and Laser Marking Properties of Poly(propylene)/Molybdenum Sulfide Composite Materials. <i>ACS Omega</i> , 2021, 6, 9129-9140.	1.6	9
14	Self-healing materials enable free-standing seamless large-scale 3D printing. <i>Science China Materials</i> , 2021, 64, 1791-1800.	3.5	20
15	Simple Solvent-Free Strategy for Synthesizing Covalent Adaptable Networks from Commodity Vinyl Monomers. <i>Macromolecules</i> , 2021, 54, 4081-4088.	2.2	14
16	Hot-Melt Adhesive Based on Dynamic Oxime-Carbamate Bonds. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6925-6931.	1.8	21
17	Self-healing polyurethane-elastomer with mechanical tunability for multiple biomedical applications in vivo. <i>Nature Communications</i> , 2021, 12, 4395.	5.8	93
18	Abrasion and Fracture Self-Healable Triboelectric Nanogenerator with Ultrahigh Stretchability and Long-Term Durability. <i>Advanced Functional Materials</i> , 2021, 31, 2105380.	7.8	65

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19	Energy-efficient smart window based on a thermochromic microgel with ultrahigh visible transparency and infrared transmittance modulation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17481-17491.	5.2	49
20	<i>Ab initio</i> kinetics predictions for the role of pre-reaction complexes in hydrogen abstraction from 2-butanone by OH radicals. <i>RSC Advances</i> , 2020, 10, 33205-33212.	1.7	6
21	Charge-trapping-blocking layer for enhanced triboelectric nanogenerators. <i>Nano Energy</i> , 2020, 75, 105011.	8.2	91
22	3D printing preview for stereo-lithography based on photopolymerization kinetic models. <i>Bioactive Materials</i> , 2020, 5, 798-807.	8.6	25
23	Highly compact nanochannel thin films with exceptional thermal conductivity and water pumping for efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13927-13934.	5.2	28
24	Mechanically and biologically skin-like elastomers for bio-integrated electronics. <i>Nature Communications</i> , 2020, 11, 1107.	5.8	162
25	Biofunctionalized chondrogenic shape-memory ternary scaffolds for efficient cell-free cartilage regeneration. <i>Acta Biomaterialia</i> , 2020, 105, 97-110.	4.1	65
26	Mechanically and Electronically Robust Transparent Organohydrogel Fibers. <i>Advanced Materials</i> , 2020, 32, e1906994.	11.1	207
27	A theoretical study for the role of complex in hydrogen abstraction of OH. <i>Chemical Physics Letters</i> , 2020, 759, 138035.	1.2	1
28	High-performance all-aromatic liquid crystalline esteramide-based thermosets. <i>High Performance Polymers</i> , 2019, 31, 631-639.	0.8	4
29	Strong, detachable, and self-healing dynamic crosslinked hot melt polyurethane adhesive. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1833-1839.	3.2	84
30	Synthesis of Double-Shelled Hollow Inorganic Nanospheres through Block Copolymer-Metal Coordination and Atomic Layer Deposition. <i>Polymers</i> , 2019, 11, 1208.	2.0	2
31	Ionogel-based, highly stretchable, transparent, durable triboelectric nanogenerators for energy harvesting and motion sensing over a wide temperature range. <i>Nano Energy</i> , 2019, 63, 103847.	8.2	188
32	Biomimetic Materials with Multiple Protective Functionalities. <i>Advanced Functional Materials</i> , 2019, 29, 1901058.	7.8	85
33	Highly efficient self-healable and dual responsive hydrogel-based deformable triboelectric nanogenerators for wearable electronics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13948-13955.	5.2	163
34	A Highly Efficient Self-Healing Elastomer with Unprecedented Mechanical Properties. <i>Advanced Materials</i> , 2019, 31, e1901402.	11.1	413
35	Preparation and pH Controlled Release of Fe ₃ O ₄ /Anthocyanin Magnetic Biocomposites. <i>Polymers</i> , 2019, 11, 2077.	2.0	7
36	Thermally resistant photocrosslinked damping poly(phenylene oxide)-fluorosilicone rubber films with broad and high effective damping temperatures. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47231.	1.3	4

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37	Optimizing Ply Pattern and Composition of Layered Composites based on Cyanate Ester, Carbon Nanotube, and Boron Nitride: Toward Ultralow Dielectric Loss and High Energy Storage. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5238-5247.	1.5	29
38	Tailoring the structure of aligned carbon nanotube bundle by reactive polymer for strengthening its surface interaction with thermosets and the excellent properties of the hybrid thermosets. <i>Applied Surface Science</i> , 2018, 439, 638-648.	3.1	11
39	Biobased epoxy resin derived from eugenol with excellent integrated performance and high renewable carbon content. <i>Polymer International</i> , 2018, 67, 1194-1202.	1.6	58
40	Flame-retardant cyanate ester resin with suppressed toxic volatiles based on environmentally friendly halloysite nanotube/graphene oxide hybrid. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46587.	1.3	17
41	Preparation and origin of thermally resistant biobased epoxy resin with low internal stress and good UV resistance based on SiO ₂ hybridized cellulose for light emitting diode encapsulation. <i>Applied Surface Science</i> , 2018, 447, 315-324.	3.1	24
42	Metal-Based Hybrid Nanoparticles as Radiosensitizers in Cancer Therapy. <i>Colloids and Interface Science Communications</i> , 2018, 23, 45-51.	2.0	27
43	A very low concentration of polybenzimidazole film interleaved bismaleimide/diallyl bisphenol a system with outstanding improvement in impact strength and excellent allround properties. <i>Polymer Composites</i> , 2018, 39, 4569-4580.	2.3	5
44	High-k 3D-barium titanate foam/phenolphthalein poly(ether sulfone)/cyanate ester composites with frequency-stable dielectric properties and extremely low dielectric loss under reduced concentration of ceramics. <i>Applied Surface Science</i> , 2018, 427, 1046-1054.	3.1	38
45	Building and origin of bio-based bismaleimide resins with good processability, high thermal, and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45947.	1.3	13
46	Progress of heat resistant dielectric polymer nanocomposites with high dielectric constant. <i>IET Nanodielectrics</i> , 2018, 1, 67-79.	2.0	13
47	Fabrication of In Situ Nanofiber-Reinforced Molecular Composites by Nonequilibrium Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39293-39306.	4.0	21
48	Developing thermally resistant polydopamine@nano turbostratic BN@CeO ₂ double core-shell ultraviolet absorber with low light-catalysis activity and its grafted high performance aramid fibers. <i>Applied Surface Science</i> , 2018, 452, 389-399.	3.1	27
49	Near-infrared irradiation induced remote and efficient self-healable triboelectric nanogenerator for potential implantable electronics. <i>Nano Energy</i> , 2018, 51, 333-339.	8.2	106
50	Aminated aligned carbon nanotube bundles/polybenzimidazole hybrid film interleaved thermosetting composites with interface strengthening action. <i>Composites Part B: Engineering</i> , 2018, 152, 256-266.	5.9	11
51	High-Temperature Shape Memory Behavior of Semicrystalline Polyamide Thermosets. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19106-19115.	4.0	36
52	Water-Phase Synthesis of a Biobased Allyl Compound for Building UV-Curable Flexible Thiol-ene Polymer Networks with High Mechanical Strength and Transparency. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7902-7909.	3.2	65
53	Preparation and mechanism of shape memory bismaleimide resins with high transition temperature, high toughness and good processability. <i>Journal of Materials Science</i> , 2018, 53, 10798-10811.	1.7	31
54	Facilely Synthesizing Ethynyl Terminated All-Aromatic Liquid Crystalline Poly(esterimide)s with Good Processability and Thermal Resistance under Medium-Low Temperature via Direct Esterification. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7090-7098.	1.8	8

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55	A reconfiguring and self-healing thermoset epoxy/chain-extended bismaleimide resin system with thermally dynamic covalent bonds. <i>Polymer</i> , 2018, 147, 170-182.	1.8	50
56	Flexible all- ϵ -aromatic polyesterimide films with high glass transition temperatures. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	13
57	Building unique surface structure on aramid fibers through a green layer-by-layer self-assembly technique to develop new high performance fibers with greatly improved surface activity, thermal resistance, mechanical properties and UV resistance. <i>Applied Surface Science</i> , 2017, 411, 34-45.	3.1	55
58	Improving the mechanical, thermal, dielectric and flame retardancy properties of cyanate ester with the encapsulated epoxy resin-penetrated aligned carbon nanotube bundle. <i>Composites Part B: Engineering</i> , 2017, 123, 81-91.	5.9	56
59	High-Temperature Shape Memory Behavior of Novel All-Aromatic (AB) _n -Multiblock Copoly(ester) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.2	20
60	Multifunctional epoxy resin/polyacrylonitrile- ϵ -lithium trifluoromethanesulfonate composites films with very high transparency, high dielectric permittivity, breakdown strength and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45218.	1.3	6
61	Synergistically building flame retarding thermosetting composites with high toughness and thermal stability through unique phosphorus and silicone hybridized graphene oxide. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 98, 174-183.	3.8	40
62	Enhanced thermal and dielectric properties of hybrid organic/inorganic shell microcapsule/thermosetting resin nanocomposites. <i>Polymer International</i> , 2017, 66, 1940-1948.	1.6	5
63	Greatly improving energy storage density and reducing dielectric loss of carbon nanotube/cyanate ester composites through building a unique tri-layered structure with mica paper. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21909-21918.	5.2	39
64	Biobased Heat Resistant Epoxy Resin with Extremely High Biomass Content from 2,5-Furandicarboxylic Acid and Eugenol. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7003-7011.	3.2	186
65	Developing self-healable and antibacterial polyacrylate coatings with high mechanical strength through crosslinking by multi-amine hyperbranched polysiloxane via dynamic vinylous urethane. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16889-16897.	5.2	55
66	A novel strategy of fabricating high performance UV-resistant aramid fibers with simultaneously improved surface activity, thermal and mechanical properties through building polydopamine and graphene oxide bi-layer coatings. <i>Chemical Engineering Journal</i> , 2017, 310, 134-147.	6.6	91
67	Fabrication and origin of asymmetric polyvinylidene fluoride- ϵ -carbon nanotube/cyanate ester materials with high dielectric constant and low dielectric loss through building double- ϵ -layered structure. <i>High Voltage</i> , 2017, 2, 32-38.	2.7	10
68	Origin of Increasing Dielectric Constant at Lower Percolation Threshold through Controlling Spatial Distribution of Carbon Nanotubes in Epoxy Resin with Microwave-Assisted Thermal Curing Technique. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28875-28885.	1.5	16
69	Unique pure barium titanate foams with three-dimensional interconnecting pore channels and their high-k cyanate ester resin composites at very low barium titanate loading. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10654-10663.	2.7	21
70	All-Aromatic (AB) _n -Multiblock Copolymers via Simple One-Step Melt Condensation Chemistry. <i>Macromolecules</i> , 2016, 49, 8549-8562.	2.2	35
71	The origin of the curing behavior, mechanical and thermal properties of surface functionalized attapulgite/bismaleimide/diallylbisphenol composites. <i>Applied Surface Science</i> , 2014, 288, 435-443.	3.1	20
72	Preparation and properties of novel high performance UV-curable epoxy acrylate/hyperbranched polysiloxane coatings. <i>Progress in Organic Coatings</i> , 2012, 74, 142-150.	1.9	65

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73	Interface and its effect on the interlaminar shear strength of novel glass fiber/hyperbranched polysiloxane modified maleimide-triazine resin composites. <i>Applied Surface Science</i> , 2011, 258, 572-579.	3.1	22
74	Preparation and properties of new high performance maleimide-triazine resins for resin transfer molding. <i>Polymers for Advanced Technologies</i> , 2011, 22, 1572-1580.	1.6	12
75	Curing kinetics and mechanism of novel high performance hyperbranched polysiloxane/bismaleimide/cyanate ester resins for resin transfer molding. <i>Journal of Applied Polymer Science</i> , 2011, 122, 304-312.	1.3	17
76	Biofunctionalized Chondrogenic Shape-Memory Ternary Scaffolds for Efficient Cell-Free Cartilage Regeneration. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0