Qingbao Guan

List of Publications by Year
in descending order

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Version: 2024-02-01

76 papers	3,509 citations	147801 31 h-index	144013 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. CCS Chemistry, 2023, 5, 1096-1107.	7.8	16
2	Highly Transparent, Stretchable, and Self-Healable Ionogel for Multifunctional Sensors, Triboelectric Nanogenerator, and Wearable Fibrous Electronics. Advanced Fiber Materials, 2022, 4, 98-107.	16.1	83
3	Photo-responsive shape memory polymer composites enabled by doping with biomass-derived carbon nanomaterials. Nano Research, 2022, 15, 1383-1392.	10.4	20
4	Highly efficient self-healable and robust fluorinated polyurethane elastomer for wearable electronics. Chemical Engineering Journal, 2022, 430, 133081.	12.7	46
5	A fluorine-rich phenolic polyurethane elastomer with excellent self-healability and reprocessability and its applications for wearable electronics. Science China Materials, 2022, 65, 2553-2564.	6.3	10
6	Magnetic nanostructure and biomolecule synergistically promoted Suaeda-inspired self-healing hydrogel composite for seawater evaporation. Science of the Total Environment, 2022, 830, 154545.	8.0	12
7	Supertough spontaneously self-healing polymer based on septuple dynamic bonds integrated in one chemical group. Science China Chemistry, 2022, 65, 363-372.	8.2	28
8	Liquid Crystalline Thermosetting Compositesâ€Based Triboelectric Nanogenerators with Intrinsic Flame Retardancy. Advanced Materials Technologies, 2022, 7, .	5.8	5
9	Peptidoglycan-inspired autonomous ultrafast self-healing bio-friendly elastomers for bio-integrated electronics. National Science Review, 2021, 8, nwaa154.	9.5	52
10	Biomimetic multifunctional E-skins integrated with mechanoluminescence and chemical sensing abilities. Journal of Materials Chemistry C, 2021, 9, 2815-2822.	5.5	19
11	Preparation and Properties of Polyacrylamide/Sodium Alginate Hydrogel and the Effect of Fe Adsorption on Its Mechanical Performance. Journal of Renewable Materials, 2021, 9, 1447-1462.	2.2	13
12	Thermoplastic Photoheating Polymer Enables 3Dâ€Printed Selfâ€Healing Lightâ€Propelled Smart Devices. Advanced Functional Materials, 2021, 31, 2009568.	14.9	22
13	Preparation and Laser Marking Properties of Poly(propylene)/Molybdenum Sulfide Composite Materials. ACS Omega, 2021, 6, 9129-9140.	3.5	9
14	Self-healing materials enable free-standing seamless large-scale 3D printing. Science China Materials, 2021, 64, 1791-1800.	6.3	20
15	Simple Solvent-Free Strategy for Synthesizing Covalent Adaptable Networks from Commodity Vinyl Monomers. Macromolecules, 2021, 54, 4081-4088.	4.8	14
16	Hot-Melt Adhesive Based on Dynamic Oximeâ€“Carbamate Bonds. Industrial & Engineering Chemistry Research, 2021, 60, 6925-6931.	3.7	21
17	Self-healing polyurethane-elastomer with mechanical tunability for multiple biomedical applications in vivo. Nature Communications, 2021, 12, 4395.	12.8	93
18	Abrasion and Fracture Selfâ€Healable Triboelectric Nanogenerator with Ultrahigh Stretchability and Longâ€Term Durability. Advanced Functional Materials, 2021, 31, 2105380.	14.9	65

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19	Energy-efficient smart window based on a thermochromic microgel with ultrahigh visible transparency and infrared transmittance modulation. Journal of Materials Chemistry A, 2021, 9, 17481-17491.	10.3	49
20	Ab initio kinetics predictions for the role of pre-reaction complexes in hydrogen abstraction from 2-butanone by OH radicals. RSC Advances, 2020, 10, 33205-33212.	3.6	6
21	Charge-trapping-blocking layer for enhanced triboelectric nanogenerators. Nano Energy, 2020, 75, 105011.	16.0	91
22	3D printing preview for stereo-lithography based on photopolymerization kinetic models. Bioactive Materials, 2020, 5, 798-807.	15.6	25
23	Highly compact nanochannel thin films with exceptional thermal conductivity and water pumping for efficient solar steam generation. Journal of Materials Chemistry A, 2020, 8, 13927-13934.	10.3	28
24	Mechanically and biologically skin-like elastomers for bio-integrated electronics. Nature Communications, 2020, 11, 1107.	12.8	162
25	Biofunctionalized chondrogenic shape-memory ternary scaffolds for efficient cell-free cartilage regeneration. Acta Biomaterialia, 2020, 105, 97-110.	8.3	65
26	Mechanically and Electronically Robust Transparent Organohydrogel Fibers. Advanced Materials, 2020, 32, e1906994.	21.0	207
27	A theoretical study for the role of complex in hydrogen abstraction of OH. Chemical Physics Letters, 2020, 759, 138035.	2.6	1
28	High-performance all-aromatic liquid crystalline esteramide-based thermosets. High Performance Polymers, 2019, 31, 631-639.	1.8	4
29	Strong, detachable, and self-healing dynamic crosslinked hot melt polyurethane adhesive. Materials Chemistry Frontiers, 2019, 3, 1833-1839.	5.9	84
30	Synthesis of Double-Shelled Hollow Inorganic Nanospheres through Block Copolymer-Metal Coordination and Atomic Layer Deposition. Polymers, 2019, 11, 1208.	4.5	2
31	Ionogel-based, highly stretchable, transparent, durable triboelectric nanogenerators for energy harvesting and motion sensing over a wide temperature range. Nano Energy, 2019, 63, 103847.	16.0	188
32	Biomimetic Materials with Multiple Protective Functionalities. Advanced Functional Materials, 2019, 29, 1901058.	14.9	85
33	Highly efficient self-healable and dual responsive hydrogel-based deformable triboelectric nanogenerators for wearable electronics. Journal of Materials Chemistry A, 2019, 7, 13948-13955.	10.3	163
34	A Highly Efficient Selfâ€Healing Elastomer with Unprecedented Mechanical Properties. Advanced Materials, 2019, 31, e1901402.	21.0	413
35	Preparation and pH Controlled Release of Fe3O4/Anthocyanin Magnetic Biocomposites. Polymers, 2019, 11, 2077.	4.5	7
36	Thermally resistant photocrosslinked damping poly(phenylene oxide)â€“fluorosilicone rubber films with broad and high effective damping temperatures. Journal of Applied Polymer Science, 2019, 136, 47231.	2.6	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. Journal of Physical Chemistry C, 2018, 122, 5238-5247.	3.1	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. Applied Surface Science, 2018, 439, 638-648.	6.1	11
39	Biobased epoxy resin derived from eugenol with excellent integrated performance and high renewable carbon content. Polymer International, 2018, 67, 1194-1202.	3.1	58
40	Flameâ€retardant cyanate ester resin with suppressed toxic volatiles based on environmentally friendly halloysite nanotube/graphene oxide hybrid. Journal of Applied Polymer Science, 2018, 135, 46587.	2.6	17
41	Preparation and origin of thermally resistant biobased epoxy resin with low internal stress and good UV resistance based on SiO2 hybridized cellulose for light emitting diode encapsulation. Applied Surface Science, 2018, 447, 315-324.	6.1	24
42	Metal-Based Hybrid Nanoparticles as Radiosensitizers in Cancer Therapy. Colloids and Interface Science Communications, 2018, 23, 45-51.	4.1	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. Polymer Composites, 2018, 39, 4569-4580.	4.6	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. Applied Surface Science, 2018, 427, 1046-1054.	6.1	38
45	Building and origin of bioâ€based bismaleimide resins with good processability, high thermal, and mechanical properties. Journal of Applied Polymer Science, 2018, 135, 45947.	2.6	13
46	Progress of heat resistant dielectric polymer nanocomposites with high dielectric constant. IET Nanodielectrics, 2018, 1, 67-79.	4.1	13
47	Fabrication of In Situ Nanofiber-Reinforced Molecular Composites by Nonequilibrium Self-Assembly. ACS Applied Materials & Interfaces, 2018, 10, 39293-39306.	8.0	21
48	Developing thermally resistant polydopamine@nano turbostratic BN@CeO2 double core-shell ultraviolet absorber with low light-catalysis activity and its grafted high performance aramid fibers. Applied Surface Science, 2018, 452, 389-399.	6.1	27
49	Near-infrared irradiation induced remote and efficient self-healable triboelectric nanogenerator for potential implantable electronics. Nano Energy, 2018, 51, 333-339.	16.0	106
50	Aminated aligned carbon nanotube bundles/polybenzimidazole hybrid film interleaved thermosetting composites with interface strengthening action. Composites Part B: Engineering, 2018, 152, 256-266.	12.0	11
51	High-Temperature Shape Memory Behavior of Semicrystalline Polyamide Thermosets. ACS Applied Materials & Interfaces, 2018, 10, 19106-19115.	8.0	36
52	Water-Phase Synthesis of a Biobased Allyl Compound for Building UV-Curable Flexible Thiolâ€“Ene Polymer Networks with High Mechanical Strength and Transparency. ACS Sustainable Chemistry and Engineering, 2018, 6, 7902-7909.	6.7	65
53	Preparation and mechanism of shape memory bismaleimide resins with high transition temperature, high toughness and good processability. Journal of Materials Science, 2018, 53, 10798-10811.	3.7	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. Industrial & Engineering Chemistry Research, 2018, 57, 7090-7098.	3.7	8

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55	A reconfiguring and self-healing thermoset epoxy/chain-extended bismaleimide resin system with thermally dynamic covalent bonds. Polymer, 2018, 147, 170-182.	3.8	50
56	Flexible allâ€aromatic polyesterimide films with high glass transition temperatures. Journal of Applied Polymer Science, 2017, 134, .	2.6	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. Applied Surface Science, 2017, 411, 34-45.	6.1	55
58	Improving the mechanical, thermal, dielectric and flame retardancy properties of cyanate ester with the encapsulated epoxy resin-penetrated aligned carbon nanotube bundle. Composites Part B: Engineering, 2017, 123, 81-91.	12.0	56
59	High-Temperature Shape Memory Behavior of Novel All-Aromatic (AB)n-Multiblock Copoly(ester) Tj ETQq1 1 0.784314 rgBT /Overlock	4.8	20
60	Multifunctional epoxy resin/polyacrylonitrileâ€lithium trifluoromethanesulfonate composites films with very high transparency, high dielectric permittivity, breakdown strength and mechanical properties. Journal of Applied Polymer Science, 2017, 134, 45218.	2.6	6
61	Synergistically building flame retarding thermosetting composites with high toughness and thermal stability through unique phosphorus and silicone hybridized graphene oxide. Composites Part A: Applied Science and Manufacturing, 2017, 98, 174-183.	7.6	40
62	Enhanced thermal and dielectric properties of hybrid organic/inorganic shell microcapsule/thermosetting resin nanocomposites. Polymer International, 2017, 66, 1940-1948.	3.1	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. Journal of Materials Chemistry A, 2017, 5, 21909-21918.	10.3	39
64	Biobased Heat Resistant Epoxy Resin with Extremely High Biomass Content from 2,5-Furandicarboxylic Acid and Eugenol. ACS Sustainable Chemistry and Engineering, 2017, 5, 7003-7011.	6.7	186
65	Developing self-healable and antibacterial polyacrylate coatings with high mechanical strength through crosslinking by multi-amine hyperbranched polysiloxane via dynamic vinylogous urethane. Journal of Materials Chemistry A, 2017, 5, 16889-16897.	10.3	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. Chemical Engineering Journal, 2017, 310, 134-147.	12.7	91
67	Fabrication and origin of asymmetric polyvinylidene fluorideâ€carbon nanotube/cyanate ester materials with high dielectric constant and low dielectric loss through building doubleâ€layered structure. High Voltage, 2017, 2, 32-38.	4.7	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. Journal of Physical Chemistry C, 2016, 120, 28875-28885.	3.1	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. Journal of Materials Chemistry C, 2016, 4, 10654-10663.	5.5	21
70	All-Aromatic (AB)_n-Multiblock Copolymers via Simple One-Step Melt Condensation Chemistry. Macromolecules, 2016, 49, 8549-8562.	4.8	35
71	The origin of the curing behavior, mechanical and thermal properties of surface functionalized attapulgite/bismaleimide/diallylbisphenol composites. Applied Surface Science, 2014, 288, 435-443.	6.1	20
72	Preparation and properties of novel high performance UV-curable epoxy acrylate/hyperbranched polysiloxane coatings. Progress in Organic Coatings, 2012, 74, 142-150.	3.9	65

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73	Interface and its effect on the interlaminate shear strength of novel glass fiber/hyperbranched polysiloxane modified maleimide-triazine resin composites. Applied Surface Science, 2011, 258, 572-579.	6.1	22
74	Preparation and properties of new high performance maleimideâ€triazine resins for resin transfer molding. Polymers for Advanced Technologies, 2011, 22, 1572-1580.	3.2	12
75	Curing kinetics and mechanism of novel high performance hyperbranched polysiloxane/bismaleimide/cyanate ester resins for resin transfer molding. Journal of Applied Polymer Science, 2011, 122, 304-312.	2.6	17
76	Biofunctionalized Chondrogenic Shape-Memory Ternary Scaffolds for Efficient Cell-Free Cartilage Regeneration. SSRN Electronic Journal, 0, , .	0.4	0