

# Qiang He

## List of Publications by Year in descending order

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98  
papers

2,613  
citations

236925

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223800

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98  
docs citations

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times ranked

2933  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation strategy and evaluation method of durable superhydrophobic rubber composites. <i>Advances in Colloid and Interface Science</i> , 2022, 299, 102549.	14.7	14
2	Identification of Propionate-Degrading Microbial Populations in Methanogenic Processes for Waste Treatment: <i>Methanosaeta</i> and <i>Methanoculleus</i> . <i>Environmental Engineering Science</i> , 2022, 39, 202-211.	1.6	6
3	A lattice Boltzmann model for liquid-vapor-solid flow with thermal phase change. <i>Computers and Mathematics With Applications</i> , 2022, 114, 60-72.	2.7	7
4	Investigation of self-cleaning and bouncing properties of superhydrophobic aluminum nitride/silicone rubber. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	5
5	Superhydrophobic silicone rubber surface prepared by direct replication. <i>Surface Engineering</i> , 2021, 37, 278-287.	2.2	13
6	A Review on Fabrication Methods and Research Progress of Superhydrophobic Silicone Rubber Materials. <i>Advanced Materials Interfaces</i> , 2021, 8, .	3.7	54
7	“Soapy water” transformation of the “condenser” with self-cleaning ability and antibacterial activity. <i>Journal of Cleaner Production</i> , 2021, 286, 125432.	9.3	6
8	Biomimetic 3D coral reef-like GO@TiO <sub>2</sub> composite framework inlaid with TiO <sub>2</sub> -C for low-frequency electromagnetic wave absorption. <i>Carbon</i> , 2021, 178, 144-156.	10.3	26
9	Study on rubber surface enhancement of fiber fabric. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	3
10	Study on mechanical and tribological properties of ternary fluororubber filled with four needles of zinc oxide. <i>Polymer Composites</i> , 2021, 42, 3064-3076.	4.6	7
11	Study on preparation and properties of superhydrophobic surface of RTV silicone rubber. <i>Journal of Materials Research and Technology</i> , 2021, 11, 135-143.	5.8	17
12	Study on hydrophobic properties of fluororubber prepared by template method under high temperature conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 612, 125837.	4.7	26
13	Research progress on compounding agent and mechanical test method of fluororubber. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50913.	2.6	19
14	Mechanical, thermal, and friction properties of addition-type fluororubber co-filled with Al <sub>2</sub> O <sub>3</sub> particles at high temperature. <i>Polymer Testing</i> , 2021, 96, 107131.	4.8	15
15	Microsporidia infection upregulates host energy metabolism but maintains ATP homeostasis. <i>Journal of Invertebrate Pathology</i> , 2021, 186, 107596.	3.2	9
16	A fluorine-free superhydrophobic silicone rubber surface has excellent self-cleaning and bouncing properties. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 175-183.	9.4	41
17	Ultrasonic dispersion method used in glass polishing experiment. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402110118.	1.6	2
18	Effects of Alumina Doping on Mechanical and Tribological Properties of Nitrile Butadiene Rubber. <i>Fibers and Polymers</i> , 2021, 22, 3106-3119.	2.1	3

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19	Characterizing the Xenoma of <i>Vairimorpha necatrix</i> Provides Insights Into the Most Efficient Mode of Microsporidian Proliferation. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 699239.	3.9	2
20	Preparation of superhydrophobic composite paper mulching film. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103247.	4.9	4
21	Preparation and Comprehensive Performance Test of Superhydrophobic Paper Mulch Films. <i>ACS Omega</i> , 2021, 6, 24407-24418.	3.5	4
22	Research on low temperature performance of ZnO/SiO <sub>2</sub> composite superhydrophobic paper mulch. <i>Journal of Materials Research and Technology</i> , 2021, 14, 851-863.	5.8	10
23	Study on mechanical and tribological properties of cerium oxide/fluorine rubber composites. <i>Materials Today Communications</i> , 2021, 28, 102596.	1.9	6
24	Study on anti-aging properties of modified ZnO-SiO <sub>2</sub> superhydrophobic coated paper mulch film. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 629, 127430.	4.7	6
25	Study on high temperature composite properties of ternary fluor rubber filled with nano-cerium oxide. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	2
26	Metal-organic frameworks self-templated cubic hollow Co/N/C@MnO <sub>2</sub> composites for electromagnetic wave absorption. <i>Carbon</i> , 2020, 156, 378-388.	10.3	111
27	Proliferation characteristics of the intracellular microsporidian pathogen <i>Nosema bombycis</i> in congenitally infected embryos. <i>Journal of Invertebrate Pathology</i> , 2020, 169, 107310.	3.2	6
28	Thermo-oxidative ageing behavior of cerium oxide/silicone rubber. <i>Journal of Rare Earths</i> , 2020, 38, 436-444.	4.8	23
29	Friction and wear property of lithium grease contained with copper oxide nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1355-1367.	3.1	14
30	Research on high temperature friction properties of PTFE/Fluorosilicone rubber/silicone rubber. <i>Polymer Testing</i> , 2020, 91, 106817.	4.8	24
31	Generalized conservative phase field model and its lattice Boltzmann scheme for multicomponent multiphase flows. <i>International Journal of Multiphase Flow</i> , 2020, 132, 103432.	3.4	25
32	Impact of Boron Nitride Nanoparticles on the Wear Property of Lithium Base Grease. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 4991-5000.	2.5	8
33	A unified lattice Boltzmann model for immiscible and miscible ternary fluids. <i>Computers and Mathematics With Applications</i> , 2020, 80, 2830-2859.	2.7	12
34	A superhydrophobic surface with aging resistance, excellent mechanical restorability and droplet bounce properties. <i>Soft Matter</i> , 2020, 16, 5514-5524.	2.7	34
35	Impact of WS <sub>2</sub> Nanoparticles on Nitrile Butadiene Rubber Properties. <i>Fibers and Polymers</i> , 2020, 21, 1163-1172.	2.1	4
36	Characterization of Hsp70 gene family provides insight into its functions related to microsporidian proliferation. <i>Journal of Invertebrate Pathology</i> , 2020, 174, 107394.	3.2	4

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37	Effect of few layer graphene additive on the tribological properties of lithium grease. <i>Lubrication Science</i> , 2020, 32, 333-343.	2.1	15
38	In-vitro cultivation of <i>Nosema bombycis</i> sporoplasms: A method for potential genetic engineering of microsporidia. <i>Journal of Invertebrate Pathology</i> , 2020, 174, 107420.	3.2	8
39	A simple preparation method for superhydrophobic surface on silicon rubber and its properties. <i>Progress in Organic Coatings</i> , 2020, 143, 105612.	3.9	24
40	Morphology and Transcriptome Analysis of <i>Nosema bombycis</i> Sporoplasm and Insights into the Initial Infection of Microsporidia. <i>MSphere</i> , 2020, 5, .	2.9	22
41	Tribological and rheological properties of nanorods "Al <sub>2</sub> O <sub>3</sub> " as additives in grease. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2019, 233, 605-614.	1.8	10
42	Experimental investigation on large deformation of silicon rubber. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	8
43	Self-Assembled 3D Flower-like Composites of Heterobimetallic Phosphides and Carbon for Temperature-Tailored Electromagnetic Wave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 38361-38371.	8.0	90
44	Study on the reinforcing effect of nano-SiO <sub>2</sub> filled PTFE composites. <i>AIP Advances</i> , 2019, 9, 055217.	1.3	6
45	Wear property improvement by short carbon fiber as enhancer for rubber compound. <i>Polymer Testing</i> , 2019, 77, 105879.	4.8	25
46	Acute kidney injury in cancer patients: A nationwide survey in China. <i>Scientific Reports</i> , 2019, 9, 3540.	3.3	24
47	The implementation of a pulmonary embolism response team in the management of intermediate- or high-risk pulmonary embolism. <i>Journal of Vascular Surgery: Venous and Lymphatic Disorders</i> , 2019, 7, 493-500.	1.6	46
48	Evolutionary and functional studies on microsporidian ATP-binding cassettes: Insights into the adaptation of microsporidia to obligated intracellular parasitism. <i>Infection, Genetics and Evolution</i> , 2019, 68, 136-144.	2.3	19
49	Giant power output in lead-free ferroelectrics by shock-induced phase transition. <i>Physical Review Materials</i> , 2019, 3, .	2.4	29
50	Reciprocating Compression of ZnO Probed by X-ray Diffraction: The Size Effect on Structural Properties under High Pressure. <i>Inorganic Chemistry</i> , 2018, 57, 5380-5388.	4.0	7
51	Experimental study on polishing performance of CeO <sub>2</sub> and nano-SiO <sub>2</sub> mixed abrasive. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 163-171.	3.1	30
52	A study on mechanical and tribological properties of silicone rubber reinforced with white carbon black. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2018, 12, 9-16.	1.4	25
53	Thermal optimization and experimental research of high-speed universal pulverizer. <i>Advances in Manufacturing</i> , 2018, 6, 83-94.	6.1	0
54	Pathological analysis of silkworm infected by two microsporidia <i>Nosema bombycis</i> CQ1 and <i>Vairimorpha necatrix</i> BM. <i>Journal of Invertebrate Pathology</i> , 2018, 153, 75-84.	3.2	18

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55	Phase transition of $\text{Eu}_2\text{Ti}_2\text{O}_7$ under high pressure and a new ferroelectric phase with perovskite-like layered structure. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2571-2577.	3.8	15
56	Tribological properties of nanometer cerium oxide as additives in lithium grease. <i>Journal of Rare Earths</i> , 2018, 36, 209-214.	4.8	38
57	Sintering dense boron carbide without grain growth under high pressure. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1289-1297.	3.8	27
58	Investigation on Friction and Wear Properties of High-Temperature Bearing Steel 9Cr18Mo. <i>Materials Research</i> , 2018, 21, .	1.3	4
59	Effects of two nano-ZnO processing technologies on the properties of rubber. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 2009-2020.	3.1	22
60	Liquid phase assisted high pressure sintering of dense TiC nanoceramics. <i>Ceramics International</i> , 2018, 44, 17972-17977.	4.8	14
61	Si-Disordering in $\text{MgAl}_2\text{O}_4$ -Spinel under High P-T Conditions, with Implications for Si-Mg Disorder in $\text{Mg}_2\text{SiO}_4$ -Ringwoodite. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 210.	2.0	14
62	Genome-wide association study of the resistant starch content in rice grains. <i>Starch/Staerke</i> , 2017, 69, 1600343.	2.1	45
63	Genetic variation architecture of mitochondrial genome reveals the differentiation in Korean landrace and weedy rice. <i>Scientific Reports</i> , 2017, 7, 43327.	3.3	13
64	Experimental study of tribological properties of lithium-based grease with Cu nanoparticle additive. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2017, 11, 75-82.	1.4	18
65	Multiwalled carbon nanotubes enhanced the friction layer evolution and self-lubricating property of TiAl-10 wt% Ag-1 wt% MWCNTs sample. <i>RSC Advances</i> , 2017, 7, 40592-40599.	3.6	5
66	Effect of nanometer silicon dioxide on the frictional behavior of lubricating grease. <i>Nanomaterials and Nanotechnology</i> , 2017, 7, 184798041772593.	3.0	25
67	Risk Factor Analysis for AKI Including Laboratory Indicators: a Nationwide Multicenter Study of Hospitalized Patients. <i>Kidney and Blood Pressure Research</i> , 2017, 42, 761-773.	2.0	16
68	Population genomics identifies the origin and signatures of selection of Korean weedy rice. <i>Plant Biotechnology Journal</i> , 2017, 15, 357-366.	8.3	51
69	Unexpected competitiveness of <i>Methanosaeta</i> populations at elevated acetate concentrations in methanogenic treatment of animal wastewater. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 1729-1738.	3.6	49
70	Genome-wide association study of eating and cooking qualities in different subpopulations of rice ( <i>Oryza sativa</i> L.). <i>BMC Genomics</i> , 2016, 17, 663.	2.8	30
71	Linkages of <i>Firmicutes</i> and <i>Bacteroidetes</i> populations to methanogenic process performance. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 771-781.	3.0	140
72	Genome-wide resequencing of KRICE_CORE reveals their potential for future breeding, as well as functional and evolutionary studies in the post-genomic era. <i>BMC Genomics</i> , 2016, 17, 408.	2.8	54

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73	Effects of solution depletion and segregation oxidation on morphology of modified 310 austenitic stainless steel. <i>Journal of Iron and Steel Research International</i> , 2016, 23, 393-400.	2.8	5
74	The Genome of <i>Nosema</i> sp. Isolate YNPr: A Comparative Analysis of Genome Evolution within the <i>Nosema/Vairimorpha</i> Clade. <i>PLoS ONE</i> , 2016, 11, e0162336.	2.5	10
75	Identification, Diversity and Evolution of MITEs in the Genomes of Microsporidian <i>Nosema</i> Parasites. <i>PLoS ONE</i> , 2015, 10, e0123170.	2.5	4
76	Resequencing Reveals Different Domestication Rate for BADH1 and BADH2 in Rice ( <i>Oryza sativa</i> ). <i>PLoS ONE</i> , 2015, 10, e0134801.	2.5	33
77	A measuring method of gas leakage along the contact interface of the stripped rubber seals. Measurement: <i>Journal of the International Measurement Confederation</i> , 2015, 61, 299-304.	5.0	24
78	L-arginine stimulates CAT-1-mediated arginine uptake and regulation of inducible nitric oxide synthase for the growth of chick intestinal epithelial cells. <i>Molecular and Cellular Biochemistry</i> , 2015, 399, 229-236.	3.1	13
79	Evaluation of embryonic age and the effects of different proteases on the isolation and primary culture of chicken intestinal epithelial cells <i>in vitro</i> . <i>Animal Science Journal</i> , 2015, 86, 588-594.	1.4	24
80	Fatigue endurance limit and crack growth behavior of a high-toughness Zr61Ti2Cu25Al12 bulk metallic glass. <i>Acta Materialia</i> , 2015, 99, 165-175.	7.9	44
81	Acute kidney injury in China: a cross-sectional survey. <i>Lancet</i> , The, 2015, 386, 1465-1471.	13.7	319
82	Discovery of a novel fragrant allele and development of functional markers for fragrance in rice. <i>Molecular Breeding</i> , 2015, 35, 1.	2.1	30
83	Enrichment and specific quantification of <i>Methanocaldococcus</i> in anaerobic digestion. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 677-683.	2.2	5
84	Constraint-induced movement therapy promotes motor function recovery and downregulates phosphorylated extracellular regulated protein kinase expression in ischemic brain tissue of rats. <i>Neural Regeneration Research</i> , 2015, 10, 2004.	3.0	13
85	67 laminin receptor promotes the malignant potential of tumour cells up-regulating lysyl oxidase-like 2 expression in cholangiocarcinoma. <i>Digestive and Liver Disease</i> , 2014, 46, 750-757.	0.9	20
86	Zr61Ti2Cu25Al12 metallic glass for potential use in dental implants: Biocompatibility assessment by <i>in vitro</i> cellular responses. <i>Materials Science and Engineering C</i> , 2013, 33, 2113-2121.	7.3	49
87	The Effects of Exercise Intensity on p-NR2B Expression in Cerebral Ischemic Rats. <i>Canadian Journal of Neurological Sciences</i> , 2012, 39, 613-618.	0.5	18
88	Crack-resistance curve of a Zr61Ti2Cu25Al12 bulk metallic glass with extraordinary fracture toughness. <i>Acta Materialia</i> , 2012, 60, 4940-4949.	7.9	92
89	Locating Malleable Bulk Metallic Glasses in Zr61Ti2Cu25Al12 Alloys with Calorimetric Glass Transition Temperature as an Indicator. <i>Journal of Materials Science and Technology</i> , 2012, 28, 1109-1122.	10.7	45
90	Transformation of $\gamma$ -Fe2O3 to Fe3O4 Realized by Mechanochemical Reaction of $\gamma$ -Fe2O3 and SrCO3. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2012, 43, 1574-1578.	2.1	2

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91	Locating bulk metallic glasses with high fracture toughness: Chemical effects and composition optimization. <i>Acta Materialia</i> , 2011, 59, 202-215.	7.9	155
92	Correlation of mechanical properties in bulk metallic glasses with <sup>27</sup> Al NMR characteristics. <i>Science Bulletin</i> , 2011, 56, 3937-3941.	1.7	8
93	Robustness of archaeal populations in anaerobic co-digestion of dairy and poultry wastes. <i>Bioresource Technology</i> , 2011, 102, 779-785.	9.6	57
94	Application of Cu nanoparticles as N32 base oil additives. <i>Frontiers of Mechanical Engineering in China</i> , 2010, 5, 93-97.	0.4	6
95	Responses of Soil Bacteria to Long-Term and Short-Term Cadmium Stress as Revealed by Microbial Community Analysis. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2009, 82, 367-372.	2.7	32
96	Doped Lanthanum Gallate Film Solid Oxide Fuel Cells Fabricated On a Ni/YSZ Anode Support. <i>Journal of the American Ceramic Society</i> , 2006, 89, 2664-2667.	3.8	19
97	The Effects on the Structures and Properties in the Oxide-Ion Conductor La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> by Partial Substituting Ba for La.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
98	The effects on the structures and properties in the oxide-ion conductor La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> by partial substituting Ba for La. <i>Journal of Alloys and Compounds</i> , 2005, 388, 145-152.	5.5	28