

# Guogang Ren

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

4,229  
citations

159358

30  
h-index

110170

64  
g-index

79  
all docs

79  
docs citations

79  
times ranked

6627  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterisation of copper oxide nanoparticles for antimicrobial applications. International Journal of Antimicrobial Agents, 2009, 33, 587-590.	1.1	1,228
2	Oxidative stress and apoptosis induced by nanosized titanium dioxide in PC12 cells. Toxicology, 2010, 267, 172-177.	2.0	203
3	A review of nanoparticle functionality and toxicity on the central nervous system. Journal of the Royal Society Interface, 2010, 7, S411-22.	1.5	202
4	Antimicrobial activity of nanoparticulate metal oxides against peri-implantitis pathogens. International Journal of Antimicrobial Agents, 2012, 40, 135-139.	1.1	194
5	Influences of nanoparticle zinc oxide on acutely isolated rat hippocampal CA3 pyramidal neurons. NeuroToxicology, 2009, 30, 220-230.	1.4	149
6	Synergistic Antibacterial Effects of Metallic Nanoparticle Combinations. Scientific Reports, 2019, 9, 16074.	1.6	142
7	Action potential changes associated with the inhibitory effects on voltage-gated sodium current of hippocampal CA1 neurons by silver nanoparticles. Toxicology, 2009, 264, 179-184.	2.0	111
8	Potential impact of nanotechnology on the control of infectious diseases. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2008, 102, 1-2.	0.7	110
9	Effects of nanoparticle zinc oxide on spatial cognition and synaptic plasticity in mice with depressive-like behaviors. Journal of Biomedical Science, 2012, 19, 14.	2.6	94
10	The possible mechanism of silver nanoparticle impact on hippocampal synaptic plasticity and spatial cognition in rats. Toxicology Letters, 2012, 209, 227-231.	0.4	90
11	In vitro toxicity of multi-walled carbon nanotubes in C6 rat glioma cells. NeuroToxicology, 2012, 33, 1128-1134.	1.4	81
12	A comparison of methods to assess the antimicrobial activity of nanoparticle combinations on bacterial cells. PLoS ONE, 2018, 13, e0192093.	1.1	74
13	Nano-zinc oxide damages spatial cognition capability via over-enhanced long-term potentiation in hippocampus of Wistar rats. International Journal of Nanomedicine, 2011, 6, 1453.	3.3	73
14	Mechanical properties of 3-D printed truss-like lattice biopolymer non-stochastic structures for sandwich panels with natural fibre composite skins. Composite Structures, 2019, 213, 220-230.	3.1	68
15	Fire Retardancy of Natural Fibre Reinforced Sheet Moulding Compound. Applied Composite Materials, 2007, 14, 251-264.	1.3	66
16	Effect of temperature on the mechanical properties of 3D-printed PLA tensile specimens. Rapid Prototyping Journal, 2018, 24, 1337-1346.	1.6	57
17	<i>In vitro</i> study on influence of nano particles of CuO on CA1 pyramidal neurons of rat hippocampus potassium currents. Environmental Toxicology, 2009, 24, 211-217.	2.1	55
18	Antibacterial Performance of a Cu-bearing Stainless Steel against Microorganisms in Tap Water. Journal of Materials Science and Technology, 2015, 31, 243-251.	5.6	54

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19	Study on behaviour and mechanism of Cu <sup>2+</sup> ion release from Cu bearing antibacterial stainless steel. <i>Materials Technology</i> , 2015, 30, B126-B132.	1.5	43
20	Cognitive deficits induced by multi-walled carbon nanotubes via the autophagic pathway. <i>Toxicology</i> , 2015, 337, 21-29.	2.0	39
21	Comparative Study of the Antimicrobial Effects of Tungsten Nanoparticles and Tungsten Nanocomposite Fibres on Hospital Acquired Bacterial and Viral Pathogens. <i>Nanomaterials</i> , 2020, 10, 1017.	1.9	38
22	The Tribological Properties of Zinc Borate Ultrafine Powder as a Lubricant Additive in Sunflower Oil. <i>Tribology Transactions</i> , 2014, 57, 425-434.	1.1	37
23	Physio-chemical and antibacterial characteristics of pressure spun nylon nanofibres embedded with functional silver nanoparticles. <i>Materials Science and Engineering C</i> , 2015, 56, 195-204.	3.8	36
24	A Study of Tribological Properties of Water-Based Ceria Nanofluids. <i>Tribology Transactions</i> , 2013, 56, 275-283.	1.1	35
25	Antimicrobial Properties of Electrically Formed Elastomeric Polyurethane-Copper Oxide Nanocomposites for Medical and Dental Applications. <i>Methods in Enzymology</i> , 2012, 509, 87-99.	0.4	34
26	Nano-CuO inhibited voltage-gated sodium current of hippocampal CA1 neurons via reactive oxygen species but independent from G-proteins pathway. <i>Journal of Applied Toxicology</i> , 2011, 31, 439-445.	1.4	33
27	Exploitation of Antimicrobial Nanoparticles and Their Applications in Biomedical Engineering. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4520.	1.3	32
28	Determination of the complex permittivity of textiles and leather in the 14-40 GHz millimetre-wave band using a free-wave transmittance only method. <i>IET Microwaves, Antennas and Propagation</i> , 2008, 2, 606-614.	0.7	31
29	The inhibitory effects of nano-Ag on voltage-gated potassium currents of hippocampal CA1 neurons. <i>Environmental Toxicology</i> , 2011, 26, 552-558.	2.1	31
30	A novel coping metal material CoCrCu alloy fabricated by selective laser melting with antimicrobial and antibiofilm properties. <i>Materials Science and Engineering C</i> , 2016, 67, 461-467.	3.8	31
31	A novel treatment strategy for preterm birth: Intra-vaginal progesterone-loaded fibrous patches. <i>International Journal of Pharmaceutics</i> , 2020, 588, 119782.	2.6	31
32	Surface interactions and viability of coronaviruses. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200798.	1.5	31
33	Anti-fungal bandages containing cinnamon extract. <i>International Wound Journal</i> , 2019, 16, 730-736.	1.3	30
34	Culture of Keratinocyte-Staphylococcus aureus on Cu-Ag-Zn/CuO and Cu-Ag-W Nanoparticle Loaded Bacterial Cellulose:PMMA Bandages. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800537.	1.7	30
35	Determination of Cu <sup>2+</sup> ions release rate from antimicrobial copper bearing stainless steel by joint analysis using ICP-OES and XPS. <i>Materials Technology</i> , 2015, 30, B86-B89.	1.5	29
36	Anti-biofilm formation of a novel stainless steel against Staphylococcus aureus. <i>Materials Science and Engineering C</i> , 2015, 51, 356-361.	3.8	29

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37	Antibacterial Performance of Cu-Bearing Stainless Steel against Staphylococcus aureus and Pseudomonas aeruginosa in Whole Milk. <i>Journal of Materials Science and Technology</i> , 2016, 32, 445-451.	5.6	29
38	Gyrospon antimicrobial nanoparticle loaded fibrous polymeric filters. <i>Materials Science and Engineering C</i> , 2017, 74, 315-324.	3.8	29
39	Rheology and pressurised gyration of starch and starch-loaded poly(ethylene oxide). <i>Carbohydrate Polymers</i> , 2014, 114, 279-287.	5.1	28
40	The preparation and tribological properties of surface modified zinc borate ultrafine powder as a lubricant additive in liquid paraffin. <i>Tribology International</i> , 2014, 70, 155-164.	3.0	28
41	A molecular dynamic investigation of viscosity and diffusion coefficient of nanoclusters in hydrocarbon fluids. <i>Computational Materials Science</i> , 2015, 99, 242-246.	1.4	28
42	Molecular dynamics simulation study of rheological properties of CuO-water nanofluid. <i>Journal of Materials Science</i> , 2015, 50, 4075-4082.	1.7	25
43	Nano-Ag inhibiting action potential independent glutamatergic synaptic transmission but increasing excitability in rat CA1 pyramidal neurons. <i>Nanotoxicology</i> , 2012, 6, 414-423.	1.6	24
44	Multi-walled carbon nanotube increases the excitability of hippocampal CA1 neurons through inhibition of potassium channels in rat's brain slices. <i>Toxicology Letters</i> , 2013, 217, 121-128.	0.4	24
45	Neuroprotective Effects of Etidronate and 2,3,3-Trisphosphonate Against Glutamate-Induced Toxicity in PC12 Cells. <i>Neurochemical Research</i> , 2016, 41, 844-854.	1.6	23
46	Inhibitory effect of tungsten carbide nanoparticles on voltage-gated potassium currents of hippocampal CA1 neurons. <i>Toxicology Letters</i> , 2012, 209, 129-135.	0.4	22
47	In vitro toxicity of nanosized copper particles in PC12 cells induced by oxidative stress. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	22
48	Etidronate rescues cognitive deficits through improving synaptic transmission and suppressing apoptosis in 2-vessel occlusion model rats. <i>Journal of Neurochemistry</i> , 2017, 140, 476-484.	2.1	21
49	Synergistic Antifungal Study of PEGylated Graphene Oxides and Copper Nanoparticles against <i>Candida albicans</i> . <i>Nanomaterials</i> , 2020, 10, 819.	1.9	21
50	Metal-based nanoparticles for combating antibiotic resistance. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	21
51	Efficacy of Green Cerium Oxide Nanoparticles for Potential Therapeutic Applications: Circumstantial Insight on Mechanistic Aspects. <i>Nanomaterials</i> , 2022, 12, 2117.	1.9	21
52	Multi-walled carbon nanotube inhibits CA1 glutamatergic synaptic transmission in rat's hippocampal slices. <i>Toxicology Letters</i> , 2014, 229, 423-429.	0.4	20
53	Hemp fibre as alternative to glass fibre in sheet moulding compound Part 1 - influence of fibre content and surface treatment on mechanical properties. <i>Plastics, Rubber and Composites</i> , 2010, 39, 268-276.	0.9	19
54	Simulation and experimental study of rheological properties of CeO <sub>2</sub> -water nanofluid. <i>International Nano Letters</i> , 2015, 5, 1-7.	2.3	14

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55	AVNP2 protects against cognitive impairments induced by C6 glioma by suppressing tumour associated inflammation in rats. <i>Brain, Behavior, and Immunity</i> , 2020, 87, 645-659.	2.0	14
56	Characterisation of the Chemical Composition and Structural Features of Novel Antimicrobial Nanoparticles. <i>Nanomaterials</i> , 2017, 7, 152.	1.9	13
57	A Scale-up of Energy-Cycle Analysis on Processing Non-Woven Flax/PLA Tape and Triaxial Glass Fibre Fabric for Composites. <i>Journal of Manufacturing and Materials Processing</i> , 2019, 3, 92.	1.0	13
58	Etidronateâ€“zinc Complex Ameliorated Cognitive and Synaptic Plasticity Impairments in 2-Vessel Occlusion Model Rats by Reducing Neuroinflammation. <i>Neuroscience</i> , 2018, 390, 206-217.	1.1	12
59	Pretreatment-Etidronate Alleviates CoCl <sub>2</sub> Induced-SH-SY5Y Cell Apoptosis via Decreased HIF-1 $\alpha$ and TRPC5 Channel Proteins. <i>Neurochemical Research</i> , 2019, 44, 428-440.	1.6	12
60	TRPC6-Mediated Ca <sup>2+</sup> Entry Essential for the Regulation of Nano-ZnO Induced Autophagy in SH-SY5Y Cells. <i>Neurochemical Research</i> , 2020, 45, 1602-1613.	1.6	10
61	Involvement of reactive oxygen species and high-voltage-activated calcium currents in nanoparticle zinc oxide-induced cytotoxicity in vitro. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	8
62	Attenuated effect of tungsten carbide nanoparticles on voltage-gated sodium current of hippocampal CA1 pyramidal neurons. <i>Toxicology in Vitro</i> , 2013, 27, 299-304.	1.1	8
63	Impaired endogenous fibrinolysis at high shear using a point-of-care test in STEMI is associated with alterations in clot architecture. <i>Journal of Thrombosis and Thrombolysis</i> , 2019, 47, 392-395.	1.0	8
64	Mechanical properties of carbon-fibre reinforced silicate matrix composites. <i>Materials &amp; Design</i> , 2007, 28, 1547-1554.	5.1	7
65	Hemp fibre as alternative to glass fibre in sheet moulding compound. Part 2â€“impact properties. <i>Plastics, Rubber and Composites</i> , 2015, 44, 291-298.	0.9	7
66	Cu-bearing steel reduce inflammation after stent implantation. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 114.	1.7	7
67	Nano-CuO causes cell damage through activation of dose-dependent autophagy and mitochondrial IncCyt b-AS/ND5-AS/ND6-AS in SH-SY5Y cells. <i>Toxicology Mechanisms and Methods</i> , 2022, 32, 37-48.	1.3	7
68	Exploiting the antiviral potential of intermetallic nanoparticles. <i>Emergent Materials</i> , 2022, 5, 1251-1260.	3.2	6
69	Low cost ceramic moulding composites: impact properties. <i>Advances in Applied Ceramics</i> , 2004, 103, 158-164.	0.4	4
70	Mechanical properties of glass silicate based composites â€“ effects of varying fibre volume fractions. <i>Advances in Applied Ceramics</i> , 2012, 111, 113-119.	0.6	4
71	Investigation of vehicle ride height and diffuser ramp angle on downforce and efficiency. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 2139-2145.	1.1	4
72	Fire reactions of ceramic and polymer moulding composites. <i>Advances in Applied Ceramics</i> , 2010, 109, 328-337.	0.6	3

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73	Antiviral Efficacy of Metal and Metal Oxide Nanoparticles against the Porcine Reproductive and Respiratory Syndrome Virus. <i>Nanomaterials</i> , 2021, 11, 2120.	1.9	3
74	Low cost ceramic moulding composites: materials and manufacturing technology. <i>Advances in Applied Ceramics</i> , 2008, 107, 329-336.	0.6	1
75	Development of low cost ceramic moulding composites as fire barriers. <i>Advances in Applied Ceramics</i> , 2009, 108, 319-324.	0.6	1
76	China: experience of radioactive waste (RAW) management. , 2013, , 697-725e.		1
77	Biological evaluations of novel 2,3,3-Trisphosphonate in osteoclastic and osteoblastic activities. <i>General Medicine Open</i> , 2017, 2, .	0.0	1
78	Comparative molecular dynamics simulations of thermal conductivities of aqueous and hydrocarbon nanofluids. <i>Beilstein Journal of Nanotechnology</i> , 0, 13, 620-628.	1.5	1