Guogang Ren

List of Publications by Citations

75 papers	3,273 citations	26 h-index	56 g-index
79 ext. papers	3,695 ext. citations	4.9 avg, IF	5.32 L-index

#	Paper	IF	Citations
75	Characterisation of copper oxide nanoparticles for antimicrobial applications. *International Journal of Antimicrobial Agents*, **2009**, 33, 587-90	14.3	1003
74	Oxidative stress and apoptosis induced by nanosized titanium dioxide in PC12 cells. *Toxicology*, **2010**, 267, 172-7	4.4	178
73	A review of nanoparticle functionality and toxicity on the central nervous system. *Journal of the Royal Society Interface*, **2010**, 7 Suppl 4, S411-22	4.1	173
72	Antimicrobial activity of nanoparticulate metal oxides against peri-implantitis pathogens. *International Journal of Antimicrobial Agents*, **2012**, 40, 135-9	14.3	155
71	Influences of nanoparticle zinc oxide on acutely isolated rat hippocampal CA3 pyramidal neurons. *NeuroToxicology*, **2009**, 30, 220-30	4.4	129
70	Action potential changes associated with the inhibitory effects on voltage-gated sodium current of hippocampal CA1 neurons by silver nanoparticles. *Toxicology*, **2009**, 264, 179-84	4.4	96
69	Synergistic Antibacterial Effects of Metallic Nanoparticle Combinations. *Scientific Reports*, **2019**, 9, 16074	4.9	92
68	In vitro toxicity of multi-walled carbon nanotubes in C6 rat glioma cells. *NeuroToxicology*, **2012**, 33, 1128-34	4.4	74
67	The possible mechanism of silver nanoparticle impact on hippocampal synaptic plasticity and spatial cognition in rats. *Toxicology Letters*, **2012**, 209, 227-31	4.4	74
66	Potential impact of nanotechnology on the control of infectious diseases. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **2008**, 102, 1-2	2	71
65	Effects of nanoparticle zinc oxide on spatial cognition and synaptic plasticity in mice with depressive-like behaviors. *Journal of Biomedical Science*, **2012**, 19, 14	13.3	66
64	Nano-zinc oxide damages spatial cognition capability via over-enhanced long-term potentiation in hippocampus of Wistar rats. *International Journal of Nanomedicine*, **2011**, 6, 1453-61	7.3	58
63	Fire Retardancy of Natural Fibre Reinforced Sheet Moulding Compound. *Applied Composite Materials*, **2007**, 14, 251-264	2	53
62	A comparison of methods to assess the antimicrobial activity of nanoparticle combinations on bacterial cells. *PLoS ONE*, **2018**, 13, e0192093	3.7	52
61	In vitro study on influence of nano particles of CuO on CA1 pyramidal neurons of rat hippocampus potassium currents. *Environmental Toxicology*, **2009**, 24, 211-7	4.2	50
60	Antibacterial Performance of a Cu-bearing Stainless Steel against Microorganisms in Tap Water. *Journal of Materials Science and Technology*, **2015**, 31, 243-251	9.1	45
59	Cognitive deficits induced by multi-walled carbon nanotubes via the autophagic pathway. *Toxicology*, **2015**, 337, 21-9	4.4	33

58	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	5.3	32
57	Study on behaviour and mechanism of Cu2+ ion release from Cu bearing antibacterial stainless steel. *Materials Technology*, **2015**, 30, B126-B132	2.1	31
56	Physio-chemical and antibacterial characteristics of pressure spun nylon nanofibres embedded with functional silver nanoparticles. *Materials Science and Engineering C*, **2015**, 56, 195-204	8.3	31
55	A Study of Tribological Properties of Water-Based Ceria Nanofluids. *Tribology Transactions*, **2013**, 56, 275-283	1.8	30
54	Effect of temperature on the mechanical properties of 3D-printed PLA tensile specimens. *Rapid Prototyping Journal*, **2018**, 24, 1337-1346	3.8	30
53	Antimicrobial properties of electrically formed elastomeric polyurethane-copper oxide nanocomposites for medical and dental applications. *Methods in Enzymology*, **2012**, 509, 87-99	1.7	29
52	Nano-CuO inhibited voltage-gated sodium current of hippocampal CA1 neurons via reactive oxygen species but independent from G-proteins pathway. *Journal of Applied Toxicology*, **2011**, 31, 439-45	4.1	29
51	A novel coping metal material CoCrCu alloy fabricated by selective laser melting with antimicrobial and antibiofilm properties. *Materials Science and Engineering C*, **2016**, 67, 461-467	8.3	28
50	The Tribological Properties of Zinc Borate Ultrafine Powder as a Lubricant Additive in Sunflower Oil. *Tribology Transactions*, **2014**, 57, 425-434	1.8	27
49	The inhibitory effects of nano-Ag on voltage-gated potassium currents of hippocampal CA1 neurons. *Environmental Toxicology*, **2011**, 26, 552-8	4.2	26
48	Rheology and pressurised gyration of starch and starch-loaded poly(ethylene oxide). *Carbohydrate Polymers*, **2014**, 114, 279-287	10.3	25
47	Antibacterial Performance of Cu-Bearing Stainless Steel against Staphylococcus aureus and Pseudomonas aeruginosa in Whole Milk. *Journal of Materials Science and Technology*, **2016**, 32, 445-451	9.1	25
46	Gyrospun antimicrobial nanoparticle loaded fibrous polymeric filters. *Materials Science and Engineering C*, **2017**, 74, 315-324	8.3	24
45	Anti-fungal bandages containing cinnamon extract. *International Wound Journal*, **2019**, 16, 730-736	2.6	24
44	Determination of Cu2+ ions release rate from antimicrobial copper bearing stainless steel by joint analysis using ICP-OES and XPS. *Materials Technology*, **2015**, 30, B86-B89	2.1	24
43	Multi-walled carbon nanotube increases the excitability of hippocampal CA1 neurons through inhibition of potassium channels in rat brain slices. *Toxicology Letters*, **2013**, 217, 121-8	4.4	23
42	Anti-biofilm formation of a novel stainless steel against Staphylococcus aureus. *Materials Science and Engineering C*, **2015**, 51, 356-61	8.3	22
41	Nano-Ag inhibiting action potential independent glutamatergic synaptic transmission but increasing excitability in rat CA1 pyramidal neurons. *Nanotoxicology*, **2012**, 6, 414-23	5.3	22

40	Inhibitory effect of tungsten carbide nanoparticles on voltage-gated potassium currents of hippocampal CA1 neurons. *Toxicology Letters*, **2012**, 209, 129-35	4.4	21
39	Surface interactions and viability of coronaviruses. *Journal of the Royal Society Interface*, **2021**, 18, 20200798	4.2	21
38	Neuroprotective Effects of Etidronate and 2,3,3-Trisphosphonate Against Glutamate-Induced Toxicity in PC12 Cells. *Neurochemical Research*, **2016**, 41, 844-54	4.6	20
37	Determination of the complex permittivity of textiles and leather in the 140 GHz millimetre-wave band using a free-wave transmittance only method. *IET Microwaves, Antennas and Propagation*, **2008**, 2, 606-614	1.6	20
36	Co-Culture of Keratinocyte-Staphylococcus aureus on Cu-Ag-Zn/CuO and Cu-Ag-W Nanoparticle Loaded Bacterial Cellulose:PMMA Bandages. *Macromolecular Materials and Engineering*, **2019**, 304, 1800537	3.9	19
35	Molecular dynamics simulation study of rheological properties of CuO water nanofluid. *Journal of Materials Science*, **2015**, 50, 4075-4082	4.3	19
34	Etidronate rescues cognitive deficits through improving synaptic transmission and suppressing apoptosis in 2-vessel occlusion model rats. *Journal of Neurochemistry*, **2017**, 140, 476-484	6	19
33	The preparation and tribological properties of surface modified zinc borate ultrafine powder as a lubricant additive in liquid paraffin. *Tribology International*, **2014**, 70, 155-164	4.9	18
32	A molecular dynamic investigation of viscosity and diffusion coefficient of nanoclusters in hydrocarbon fluids. *Computational Materials Science*, **2015**, 99, 242-246	3.2	18
31	Hemp fibre as alternative to glass fibre in sheet moulding compound Part 1 Influence of fibre content and surface treatment on mechanical properties. *Plastics, Rubber and Composites*, **2010**, 39, 268-276	1.5	18
30	A novel treatment strategy for preterm birth: Intra-vaginal progesterone-loaded fibrous patches. *International Journal of Pharmaceutics*, **2020**, 588, 119782	6.5	17
29	Multi-walled carbon nanotube inhibits CA1 glutamatergic synaptic transmission in rat's hippocampal slices. *Toxicology Letters*, **2014**, 229, 423-9	4.4	16
28	In vitro toxicity of nanosized copper particles in PC12 cells induced by oxidative stress. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	16
27	Comparative Study of the Antimicrobial Effects of Tungsten Nanoparticles and Tungsten Nanocomposite Fibres on Hospital Acquired Bacterial and Viral Pathogens. *Nanomaterials*, **2020**, 10,	5.4	15
26	Synergistic Antifungal Study of PEGylated Graphene Oxides and Copper Nanoparticles against. *Nanomaterials*, **2020**, 10,	5.4	14
25	Characterisation of the Chemical Composition and Structural Features of Novel Antimicrobial Nanoparticles. *Nanomaterials*, **2017**, 7,	5.4	11
24	Exploitation of Antimicrobial Nanoparticles and Their Applications in Biomedical Engineering. *Applied Sciences (Switzerland)*, **2021**, 11, 4520	2.6	11
23	Simulation and experimental study of rheological properties of CeO2 water nanofluid. *International Nano Letters*, **2015**, 5, 1-7	5.7	9

22	Etidronate-zinc Complex Ameliorated Cognitive and Synaptic Plasticity Impairments in 2-Vessel Occlusion Model Rats by Reducing Neuroinflammation. *Neuroscience*, **2018**, 390, 206-217	3.9	9
21	Pretreatment-Etidronate Alleviates CoCl Induced-SH-SY5Y Cell Apoptosis via Decreased HIF-1 and TRPC5 Channel Proteins. *Neurochemical Research*, **2019**, 44, 428-440	4.6	8
20	Involvement of reactive oxygen species and high-voltage-activated calcium currents in nanoparticle zinc oxide-induced cytotoxicity in vitro. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	7
19	Attenuated effect of tungsten carbide nanoparticles on voltage-gated sodium current of hippocampal CA1 pyramidal neurons. *Toxicology in Vitro*, **2013**, 27, 299-304	3.6	7
18	Mechanical properties of carbon-fibre reinforced silicate matrix composites. *Materials & Design*, **2007**, 28, 1547-1554		7
17	AVNP2 protects against cognitive impairments induced by C6 glioma by suppressing tumour associated inflammation in rats. *Brain, Behavior, and Immunity*, **2020**, 87, 645-659	16.6	6
16	Hemp fibre as alternative to glass fibre in sheet moulding compound. Part 2 Impact properties. *Plastics, Rubber and Composites*, **2015**, 44, 291-298	1.5	6
15	Cu-bearing steel reduce inflammation after stent implantation. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 114	4.5	5
14	Low cost ceramic moulding composites: impact properties. *Advances in Applied Ceramics*, **2004**, 103, 158-164		4
13	A Scale-up of Energy-Cycle Analysis on Processing Non-Woven Flax/PLA Tape and Triaxial Glass Fibre Fabric for Composites. *Journal of Manufacturing and Materials Processing*, **2019**, 3, 92	2.2	4
12	Fire reactions of ceramic and polymer moulding composites. *Advances in Applied Ceramics*, **2010**, 109, 328-337	2.3	3
11	Mechanical properties of glass silicate based composites effects of varying fibre volume fractions. *Advances in Applied Ceramics*, **2012**, 111, 113-119	2.3	3
10	Impaired endogenous fibrinolysis at high shear using a point-of-care test in STEMI is associated with alterations in clot architecture. *Journal of Thrombosis and Thrombolysis*, **2019**, 47, 392-395	5.1	3
9	TRPC6-Mediated Ca Entry Essential for the Regulation of Nano-ZnO Induced Autophagy in SH-SY5Y Cells. *Neurochemical Research*, **2020**, 45, 1602-1613	4.6	3
8	Nanometals as Antimicrobials327-350		3
7	Investigation of vehicle ride height and diffuser ramp angle on downforce and efficiency. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2019**, 233, 2139-2145	1.4	2
6	Metal-based nanoparticles for combating antibiotic resistance. *Applied Physics Reviews*, **2021**, 8, 041303	17.3	2
5	Nano-CuO causes cell damage through activation of dose-dependent autophagy and mitochondrial lncCyt b-AS/ND5-AS/ND6-AS in SH-SY5Y cells. *Toxicology Mechanisms and Methods*, **2022**, 32, 37-48	3.6	2

4	Development of low cost ceramic moulding composites as fire barriers. *Advances in Applied Ceramics*, **2009**, 108, 319-324	2.3	1
3	Low cost ceramic moulding composites: materials and manufacturing technology. *Advances in Applied Ceramics*, **2008**, 107, 329-336	2.3	1
2	China: experience of radioactive waste (RAW) management **2013**, 697-725e		0
1	Exploiting the antiviral potential of intermetallic nanoparticles. *Emergent Materials*, **2021**, 1-10	3.5	0