

Guogang Ren

List of Publications by Year in descending order

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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	Nano-CuO causes cell damage through activation of dose-dependent autophagy and mitochondrial IncCyt b-AS/ND5-AS/ND6-AS in SH-SY5Y cells. Toxicology Mechanisms and Methods, 2022, 32, 37-48.	1.3	7
2	Exploiting the antiviral potential of intermetallic nanoparticles. Emergent Materials, 2022, 5, 1251-1260.	3.2	6
3	Efficacy of Green Cerium Oxide Nanoparticles for Potential Therapeutic Applications: Circumstantial Insight on Mechanistic Aspects. Nanomaterials, 2022, 12, 2117.	1.9	21
4	Exploitation of Antimicrobial Nanoparticles and Their Applications in Biomedical Engineering. Applied Sciences (Switzerland), 2021, 11, 4520.	1.3	32
5	Antiviral Efficacy of Metal and Metal Oxide Nanoparticles against the Porcine Reproductive and Respiratory Syndrome Virus. Nanomaterials, 2021, 11, 2120.	1.9	3
6	Surface interactions and viability of coronaviruses. Journal of the Royal Society Interface, 2021, 18, 20200798.	1.5	31
7	Metal-based nanoparticles for combating antibiotic resistance. Applied Physics Reviews, 2021, 8, .	5.5	21
8	A novel treatment strategy for preterm birth: Intra-vaginal progesterone-loaded fibrous patches. International Journal of Pharmaceutics, 2020, 588, 119782.	2.6	31
9	Comparative Study of the Antimicrobial Effects of Tungsten Nanoparticles and Tungsten Nanocomposite Fibres on Hospital Acquired Bacterial and Viral Pathogens. Nanomaterials, 2020, 10, 1017.	1.9	38
10	AVNP2 protects against cognitive impairments induced by C6 glioma by suppressing tumour associated inflammation in rats. Brain, Behavior, and Immunity, 2020, 87, 645-659.	2.0	14
11	Synergistic Antifungal Study of PEGylated Graphene Oxides and Copper Nanoparticles against Candida albicans. Nanomaterials, 2020, 10, 819.	1.9	21
12	TRPC6-Mediated Ca ²⁺ Entry Essential for the Regulation of Nano-ZnO Induced Autophagy in SH-SY5Y Cells. Neurochemical Research, 2020, 45, 1602-1613.	1.6	10
13	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.	1.1	4
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	Anti-fungal bandages containing cinnamon extract. International Wound Journal, 2019, 16, 730-736.	1.3	30
16	Culture of Keratinocyte Staphylococcus aureus on CuAgZn/CuO and CuAgW Nanoparticle Loaded Bacterial Cellulose:PMMA Bandages. Macromolecular Materials and Engineering, 2019, 304, 1800537.	1.7	30
17	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.	1.0	8
18	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.	1.0	13

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19	Synergistic Antibacterial Effects of Metallic Nanoparticle Combinations. <i>Scientific Reports</i> , 2019, 9, 16074.	1.6	142
20	Pretreatment-Etidronate Alleviates CoCl ₂ Induced-SH-SY5Y Cell Apoptosis via Decreased HIF-1 α and TRPC5 Channel Proteins. <i>Neurochemical Research</i> , 2019, 44, 428-440.	1.6	12
21	Effect of temperature on the mechanical properties of 3D-printed PLA tensile specimens. <i>Rapid Prototyping Journal</i> , 2018, 24, 1337-1346.	1.6	57
22	Etidronate-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
23	A comparison of methods to assess the antimicrobial activity of nanoparticle combinations on bacterial cells. <i>PLoS ONE</i> , 2018, 13, e0192093.	1.1	74
24	Gyrospon antimicrobial nanoparticle loaded fibrous polymeric filters. <i>Materials Science and Engineering C</i> , 2017, 74, 315-324.	3.8	29
25	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
26	Characterisation of the Chemical Composition and Structural Features of Novel Antimicrobial Nanoparticles. <i>Nanomaterials</i> , 2017, 7, 152.	1.9	13
27	Biological evaluations of novel 2,3,3-Trisphosphonate in osteoclastic and osteoblastic activities. <i>General Medicine Open</i> , 2017, 2, .	0.0	1
28	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
29	Antibacterial Performance of Cu-Bearing Stainless Steel against <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> in Whole Milk. <i>Journal of Materials Science and Technology</i> , 2016, 32, 445-451.	5.6	29
30	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
31	Antibacterial Performance of a Cu-bearing Stainless Steel against Microorganisms in Tap Water. <i>Journal of Materials Science and Technology</i> , 2015, 31, 243-251.	5.6	54
32	Hemp fibre as alternative to glass fibre in sheet moulding compound. Part 2-impact properties. <i>Plastics, Rubber and Composites</i> , 2015, 44, 291-298.	0.9	7
33	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
34	Simulation and experimental study of rheological properties of CeO ₂ -water nanofluid. <i>International Nano Letters</i> , 2015, 5, 1-7.	2.3	14
35	Determination of Cu ²⁺ 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 <i>Staphylococcus aureus</i> . <i>Materials Science and Engineering C</i> , 2015, 51, 356-361.	3.8	29

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37	Cu-bearing steel reduce inflammation after stent implantation. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 114.	1.7	7
38	Molecular dynamics simulation study of rheological properties of CuO-water nanofluid. <i>Journal of Materials Science</i> , 2015, 50, 4075-4082.	1.7	25
39	Study on behaviour and mechanism of Cu ²⁺ ion release from Cu bearing antibacterial stainless steel. <i>Materials Technology</i> , 2015, 30, B126-B132.	1.5	43
40	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
41	Cognitive deficits induced by multi-walled carbon nanotubes via the autophagic pathway. <i>Toxicology</i> , 2015, 337, 21-29.	2.0	39
42	Rheology and pressurised gyration of starch and starch-loaded poly(ethylene oxide). <i>Carbohydrate Polymers</i> , 2014, 114, 279-287.	5.1	28
43	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
44	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
45	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
46	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
47	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
48	China: experience of radioactive waste (RAW) management. , 2013, , 697-725e.		1
49	A Study of Tribological Properties of Water-Based Ceria Nanofluids. <i>Tribology Transactions</i> , 2013, 56, 275-283.	1.1	35
50	Mechanical properties of glass silicate based composites - effects of varying fibre volume fractions. <i>Advances in Applied Ceramics</i> , 2012, 111, 113-119.	0.6	4
51	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
52	In vitro toxicity of multi-walled carbon nanotubes in C6 rat glioma cells. <i>NeuroToxicology</i> , 2012, 33, 1128-1134.	1.4	81
53	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
54	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

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55	The possible mechanism of silver nanoparticle impact on hippocampal synaptic plasticity and spatial cognition in rats. <i>Toxicology Letters</i> , 2012, 209, 227-231.	0.4	90
56	Antimicrobial activity of nanoparticulate metal oxides against peri-implantitis pathogens. <i>International Journal of Antimicrobial Agents</i> , 2012, 40, 135-139.	1.1	194
57	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
58	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
59	Effects of nanoparticle zinc oxide on spatial cognition and synaptic plasticity in mice with depressive-like behaviors. <i>Journal of Biomedical Science</i> , 2012, 19, 14.	2.6	94
60	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
61	Nano-CuO inhibited voltage-gated sodium current of hippocampal CA1 neurons via reactive oxygen species but independent from Ca-proteins pathway. <i>Journal of Applied Toxicology</i> , 2011, 31, 439-445.	1.4	33
62	Nano-zinc oxide damages spatial cognition capability via over-enhanced long-term potentiation in hippocampus of Wistar rats. <i>International Journal of Nanomedicine</i> , 2011, 6, 1453.	3.3	73
63	Oxidative stress and apoptosis induced by nanosized titanium dioxide in PC12 cells. <i>Toxicology</i> , 2010, 267, 172-177.	2.0	203
64	Fire reactions of ceramic and polymer moulding composites. <i>Advances in Applied Ceramics</i> , 2010, 109, 328-337.	0.6	3
65	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
66	A review of nanoparticle functionality and toxicity on the central nervous system. <i>Journal of the Royal Society Interface</i> , 2010, 7, S411-22.	1.5	202
67	Development of low cost ceramic moulding composites as fire barriers. <i>Advances in Applied Ceramics</i> , 2009, 108, 319-324.	0.6	1
68	<i>In vitro</i> study on influence of nano particles of CuO on CA1 pyramidal neurons of rat hippocampus potassium currents. <i>Environmental Toxicology</i> , 2009, 24, 211-217.	2.1	55
69	Action potential changes associated with the inhibitory effects on voltage-gated sodium current of hippocampal CA1 neurons by silver nanoparticles. <i>Toxicology</i> , 2009, 264, 179-184.	2.0	111
70	Influences of nanoparticle zinc oxide on acutely isolated rat hippocampal CA3 pyramidal neurons. <i>NeuroToxicology</i> , 2009, 30, 220-230.	1.4	149
71	Characterisation of copper oxide nanoparticles for antimicrobial applications. <i>International Journal of Antimicrobial Agents</i> , 2009, 33, 587-590.	1.1	1,228
72	Potential impact of nanotechnology on the control of infectious diseases. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2008, 102, 1-2.	0.7	110

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73	Determination of the complex permittivity of textiles and leather in the 14–40 GHz millimetre-wave band using a free-wave transmittance only method. IET Microwaves, Antennas and Propagation, 2008, 2, 606-614.	0.7	31
74	Low cost ceramic moulding composites: materials and manufacturing technology. Advances in Applied Ceramics, 2008, 107, 329-336.	0.6	1
75	Fire Retardancy of Natural Fibre Reinforced Sheet Moulding Compound. Applied Composite Materials, 2007, 14, 251-264.	1.3	66
76	Mechanical properties of carbon-fibre reinforced silicate matrix composites. Materials & Design, 2007, 28, 1547-1554.	5.1	7
77	Low cost ceramic moulding composites: impact properties. Advances in Applied Ceramics, 2004, 103, 158-164.	0.4	4
78	Comparative molecular dynamics simulations of thermal conductivities of aqueous and hydrocarbon nanofluids. Beilstein Journal of Nanotechnology, 0, 13, 620-628.	1.5	1