

# Longquan Shao

## List of Publications by Year in descending order

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102  
papers

6,183  
citations

147801

31  
h-index

71685

76  
g-index

111  
all docs

111  
docs citations

111  
times ranked

9504  
citing authors

#	ARTICLE	IF	CITATIONS
1	The antimicrobial activity of nanoparticles: present situation and prospects for the future. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 1227-1249.	6.7	2,464
2	Toxicity of graphene-family nanoparticles: a general review of the origins and mechanisms. <i>Particle and Fibre Toxicology</i> , 2016, 13, 57.	6.2	540
3	The toxicity of silica nanoparticles to the immune system. <i>Nanomedicine</i> , 2018, 13, 1939-1962.	3.3	211
4	The mechanisms of graphene-based materials-induced programmed cell death: a review of apoptosis, autophagy, and programmed necrosis. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 6633-6646.	6.7	150
5	Potential adverse effects of nanoparticles on the reproductive system. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 8487-8506.	6.7	139
6	Load-bearing capacity and the recommended thickness of dental monolithic zirconia single crowns. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 35, 93-101.	3.1	129
7	The toxicology of ion-shedding zinc oxide nanoparticles. <i>Critical Reviews in Toxicology</i> , 2016, 46, 348-384.	3.9	124
8	A review on potential neurotoxicity of titanium dioxide nanoparticles. <i>Nanoscale Research Letters</i> , 2015, 10, 1042.	5.7	98
9	Central nervous system toxicity of metallic nanoparticles. <i>International Journal of Nanomedicine</i> , 2015, 10, 4321.	6.7	97
10	Superhydrophobic/Superhydrophilic Janus Fabrics Reducing Blood Loss. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701086.	7.6	94
11	Zinc oxide nanoparticles induce toxic responses in human neuroblastoma SHSY5Y cells in a size-dependent manner. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 8085-8099.	6.7	86
12	Evaluation of immunoresponses and cytotoxicity from skin exposure to metallic nanoparticles. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 4445-4459.	6.7	73
13	Graphene oxide and reduced graphene oxide induced neural pheochromocytoma-derived PC12 cell lines apoptosis and cell cycle alterations via the ERK signaling pathways. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 5501-5510.	6.7	70
14	Nanomaterials applied in wound healing: Mechanisms, limitations and perspectives. <i>Journal of Controlled Release</i> , 2021, 337, 236-247.	9.9	63
15	Is Neurotoxicity of Metallic Nanoparticles the Cascades of Oxidative Stress?. <i>Nanoscale Research Letters</i> , 2016, 11, 291.	5.7	61
16	Neuroinflammation is induced by tongue-instilled ZnO nanoparticles via the Ca <sup>2+</sup> -dependent NF- $\kappa$ B and MAPK pathways. <i>Particle and Fibre Toxicology</i> , 2018, 15, 39.	6.2	61
17	Involvement of PINK1/parkin-mediated mitophagy in ZnO nanoparticle-induced toxicity in BV-2 cells. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 1891-1903.	6.7	59
18	Graphene oxide induces p62/SQSTM-dependent apoptosis through the impairment of autophagic flux and lysosomal dysfunction in PC12 cells. <i>Acta Biomaterialia</i> , 2018, 81, 278-292.	8.3	57

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19	Toxicology data of graphene-family nanomaterials: an update. <i>Archives of Toxicology</i> , 2020, 94, 1915-1939.	4.2	55
20	Contribution of oxidative stress to TiO <sub>2</sub> nanoparticle-induced toxicity. <i>Environmental Toxicology and Pharmacology</i> , 2016, 48, 130-140.	4.0	54
21	Optimizing mechanical property and cytocompatibility of the biodegradable Mg-Zn-Y-Nd alloy by hot extrusion and heat treatment. <i>Journal of Materials Science and Technology</i> , 2019, 35, 6-18.	10.7	51
22	Involvement of autophagy in tantalum nanoparticle-induced osteoblast proliferation. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 4323-4333.	6.7	49
23	Self-assembly chitosan/gelatin composite coating on icariin-modified TiO <sub>2</sub> nanotubes for the regulation of osteoblast bioactivity. <i>Materials and Design</i> , 2016, 92, 471-479.	7.0	46
24	Prenatal exposure to nanosized zinc oxide in rats: neurotoxicity and postnatal impaired learning and memory ability. <i>Nanomedicine</i> , 2017, 12, 777-795.	3.3	46
25	Insights into the angiogenic effects of nanomaterials: mechanisms involved and potential applications. <i>Journal of Nanobiotechnology</i> , 2020, 18, 9.	9.1	46
26	Nanomaterial-mediated autophagy: coexisting hazard and health benefits in biomedicine. <i>Particle and Fibre Toxicology</i> , 2020, 17, 53.	6.2	45
27	Nanoparticles for the Treatment of Oral Biofilms: Current State, Mechanisms, Influencing Factors, and Prospects. <i>Advanced Healthcare Materials</i> , 2019, 8, e1901301.	7.6	42
28	GO-based antibacterial composites: Application and design strategies. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113967.	13.7	41
29	Application of dental nanomaterials: potential toxicity to the central nervous system. <i>International Journal of Nanomedicine</i> , 2015, 10, 3547.	6.7	40
30	Unraveling the neurotoxicity of titanium dioxide nanoparticles: focusing on molecular mechanisms. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 645-654.	2.8	40
31	Interactions of nanomaterials with ion channels and related mechanisms. <i>British Journal of Pharmacology</i> , 2019, 176, 3754-3774.	5.4	36
32	Key Role of Microtubule and Its Acetylation in a Zinc Oxide Nanoparticle-Mediated Lysosome-Autophagy System. <i>Small</i> , 2019, 15, e1901073.	10.0	34
33	Periosteum structure/function-mimicking bioactive scaffolds with piezoelectric/chem/nano signals for critical-sized bone regeneration. <i>Chemical Engineering Journal</i> , 2020, 402, 126203.	12.7	33
34	The Effect of Microteaching Combined with the BOPPPS Model on Dental Materials Education for Predoctoral Dental Students. <i>Journal of Dental Education</i> , 2019, 83, 567-574.	1.2	32
35	Central neurotoxicity induced by the instillation of ZnO and TiO <sub>2</sub> nanoparticles through the taste nerve pathway. <i>Nanomedicine</i> , 2017, 12, 2453-2470.	3.3	31
36	The interrupted effect of autophagic flux and lysosomal function induced by graphene oxide in p62-dependent apoptosis of F98 cells. <i>Journal of Nanobiotechnology</i> , 2020, 18, 52.	9.1	31

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37	The ethanol extract of <i>Osmanthus fragrans</i> attenuates <i>Porphyromonas gingivalis</i> lipopolysaccharide-stimulated inflammatory effect through the nuclear factor erythroid 2-related factor-mediated antioxidant signalling pathway. <i>Archives of Oral Biology</i> , 2015, 60, 1030-1038.	1.8	30
38	Nanoscaffolds in promoting regeneration of the peripheral nervous system. <i>Nanomedicine</i> , 2018, 13, 1067-1085.	3.3	30
39	Biomechanical properties of nano-TiO <sub>2</sub> addition to a medical silicone elastomer: The effect of artificial ageing. <i>Journal of Dentistry</i> , 2014, 42, 475-483.	4.1	29
40	The mTOR/ULK1 signaling pathway mediates the autophagy-promoting and osteogenic effects of dicalcium silicate nanoparticles. <i>Journal of Nanobiotechnology</i> , 2020, 18, 119.	9.1	28
41	Nanomaterials and hepatic disease: toxicokinetics, disease types, intrinsic mechanisms, liver susceptibility, and influencing factors. <i>Journal of Nanobiotechnology</i> , 2021, 19, 108.	9.1	28
42	Oxidation of Reduced Graphene Oxide <i>via</i> Cellular Redox Signaling Modulates Actin-Mediated Neurotransmission. <i>ACS Nano</i> , 2020, 14, 3059-3074.	14.6	27
43	Involvement of Programmed Cell Death in Neurotoxicity of Metallic Nanoparticles: Recent Advances and Future Perspectives. <i>Nanoscale Research Letters</i> , 2016, 11, 484.	5.7	24
44	METTL3-mediated m <sup>6</sup> A modification regulates cell cycle progression of dental pulp stem cells. <i>Stem Cell Research and Therapy</i> , 2021, 12, 159.	5.5	24
45	Effects of small-grit grinding and glazing on mechanical behaviors and ageing resistance of a super-translucent dental zirconia. <i>Journal of Dentistry</i> , 2017, 66, 23-31.	4.1	23
46	ZnO NPs delay the recovery of psoriasis-like skin lesions through promoting nuclear translocation of p-NF- $\kappa$ B p65 and cysteine deficiency in keratinocytes. <i>Journal of Hazardous Materials</i> , 2021, 410, 124566.	12.4	23
47	Understanding the interactions between inorganic-based nanomaterials and biological membranes. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113820.	13.7	23
48	Graphene oxide disrupted mitochondrial homeostasis through inducing intracellular redox deviation and autophagy-lysosomal network dysfunction in SH-SY5Y cells. <i>Journal of Hazardous Materials</i> , 2021, 416, 126158.	12.4	23
49	Nanomaterials alleviating redox stress in neurological diseases: mechanisms and applications. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	9.1	22
50	Characterization of maxillofacial silicone elastomer reinforced with different hollow microspheres. <i>Journal of Materials Science</i> , 2015, 50, 3976-3983.	3.7	20
51	The effect of graded glass-zirconia structure on the bond between core and veneer in layered zirconia restorations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 46, 197-204.	3.1	20
52	Potential Links between Cytoskeletal Disturbances and Electroneurophysiological Dysfunctions Induced in the Central Nervous System by Inorganic Nanoparticles. <i>Cellular Physiology and Biochemistry</i> , 2016, 40, 1487-1505.	1.6	20
53	Neurotoxicity of nanoparticles entering the brain via sensory nerve-to-brain pathways: injuries and mechanisms. <i>Archives of Toxicology</i> , 2020, 94, 1479-1495.	4.2	20
54	Highly Efficient Multifunctional Organic Photosensitizer with Aggregation-Induced Emission for <i>In Vivo</i> Bioimaging and Photodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 54783-54793.	8.0	20

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55	Nanoindentation Characterization of the Hardness of Zirconia Dental Ceramics. <i>Advanced Engineering Materials</i> , 2013, 15, 704-707.	3.5	19
56	Evaluation of the effect of time on the distribution of zinc oxide nanoparticles in tissues of rats and mice: a systematic review. <i>IET Nanobiotechnology</i> , 2016, 10, 97-106.	3.8	19
57	lon-shedding zinc oxide nanoparticles induce microglial BV2 cell proliferation via the ERK and Akt signaling pathways. <i>Toxicological Sciences</i> , 2017, , kfw241.	3.1	19
58	LncRNA TUG1 mediates lipopolysaccharide-induced proliferative inhibition and apoptosis of human periodontal ligament cells by sponging miR-132. <i>Acta Biochimica Et Biophysica Sinica</i> , 2019, 51, 1208-1215.	2.0	19
59	<p>&lt;p>Efficient miRNA Inhibitor Delivery with Graphene Oxide-Polyethylenimine to Inhibit Oral Squamous Cell Carcinoma</p>&lt;p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 1569-1583.	6.7	19
60	Effects of carbon-based nanomaterials on vascular endothelia under physiological and pathological conditions: interactions, mechanisms and potential therapeutic applications. <i>Journal of Controlled Release</i> , 2021, 330, 945-962.	9.9	19
61	Exposure of the murine RAW 264.7 macrophage cell line to dicalcium silicate coating: assessment of cytotoxicity and pro-inflammatory effects. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 59.	3.6	17
62	A Novel Approach to Enhance Bone Regeneration by Controlling the Polarity of GaN/AlGaN Heterostructures. <i>Advanced Functional Materials</i> , 2021, 31, 2007487.	14.9	17
63	Amorphous Calcium Phosphate NPs Mediate the Macrophage Response and Modulate BMSC Osteogenesis. <i>Inflammation</i> , 2021, 44, 278-296.	3.8	17
64	<i>Enterococcus faecalis</i> -Induced Macrophage Necroptosis Promotes Refractory Apical Periodontitis. <i>Microbiology Spectrum</i> , 2022, 10, .	3.0	17
65	Current understanding of the toxicological risk posed to the fetus following maternal exposure to nanoparticles. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2017, 13, 1251-1263.	3.3	16
66	NIR-II emissive dye based polymer nanoparticle targeting EGFR for oral cancer theranostics. <i>Nano Research</i> , 2022, 15, 6288-6296.	10.4	16
67	A 3-dimensional finite element analysis of the restoration of the maxillary canine with a complex zirconia post system. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 1406-1415.	2.8	12
68	Corrosion Behavior and In Vitro Cytotoxicity of Niâ€Ti and Stainless Steel Arch Wires Exposed to Lysozyme, Ovalbumin, and Bovine Serum Albumin. <i>ACS Omega</i> , 2020, 5, 18995-19003.	3.5	12
69	&lt;p>&lt;p>The Role of Tantalum Nanoparticles in Bone Regeneration Involves the BMP2/Smad4/Runx2 Signaling Pathway&lt;/p>&lt;p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 2419-2435.	6.7	11
70	Finite element analysis of stress distribution in four different endodontic post systems in a model canine. <i>Bio-Medical Materials and Engineering</i> , 2015, 26, S629-S635.	0.6	10
71	Endothelial Barrier Dysfunction Induced by Zinc Oxide Nanoparticles <i>In</i> <i>Vivo</i> and <i>In</i> <i>Vitro</i> and Their Mechanism of Crossing the Endothelial Barrier. <i>Journal of Biomedical Nanotechnology</i> , 2019, 15, 443-461.	1.1	10
72	Potential proinflammatory and osteogenic effects of dicalcium silicate particles in vitro. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 44, 10-22.	3.1	9

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73	Efficient dendrimers based on naphthalene indenofluorene for two-photon fluorescent imaging in living cells and tissues. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2160-2170.	5.5	9
74	Dual effects of JNK activation in blood-milk barrier damage induced by zinc oxide nanoparticles. <i>Journal of Hazardous Materials</i> , 2020, 399, 122809.	12.4	9
75	Electrochemically derived nanographene oxide activates endothelial tip cells and promotes angiogenesis by binding endogenous lysophosphatidic acid. <i>Bioactive Materials</i> , 2022, 9, 92-104.	15.6	9
76	Icariin activates autophagy to trigger TGF $\beta$ 1 upregulation and promote angiogenesis in EA.hy926 human vascular endothelial cells. <i>Bioengineered</i> , 2022, 13, 164-177.	3.2	9
77	Preparation and characterisation of poly p-phenylene-2,6-benzobisoxazole fibre-reinforced resin matrix composite for endodontic post material: A preliminary study. <i>Journal of Dentistry</i> , 2014, 42, 1560-1568.	4.1	8
78	Comparing Integrated and Disciplinary Clinical Training Patterns for Dental Interns: Advantages, Disadvantages, and Effect on Students' Self-Confidence. <i>Journal of Dental Education</i> , 2016, 80, 318-327.	1.2	8
79	Rapamycin-Induced Autophagy Promotes the Chondrogenic Differentiation of Synovium-Derived Mesenchymal Stem Cells in the Temporomandibular Joint in Response to IL-1 $\beta$ . <i>BioMed Research International</i> , 2020, 2020, 1-12.	1.9	8
80	Concentrated growth factor regulates the macrophage-mediated immune response. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab049.	3.7	8
81	Toxicity Induced by Zirconia Oxide Nanoparticles on Various Organs After Intravenous Administration in Rats. <i>Journal of Biomedical Nanotechnology</i> , 2019, 15, 728-741.	1.1	8
82	Circadian rhythm modulates endochondral bone formation via MTR1/AMPK $\beta$ 1/BMAL1 signaling axis. <i>Cell Death and Differentiation</i> , 2022, 29, 874-887.	11.2	8
83	Finite element analysis to study the effects of using CAD/CAM glass-fiber post system in a severely damaged anterior tooth. <i>Bio-Medical Materials and Engineering</i> , 2015, 26, S519-S525.	0.6	5
84	An abnormal displacement change during holding period in nanoindentation tests on zirconia dental ceramic. <i>Journal of Advanced Ceramics</i> , 2016, 5, 153-158.	17.4	5
85	Icariin-Loaded TiO <sub>2</sub> Nanotubes for Regulation of the Bioactivity of Bone Marrow Cells. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-12.	2.7	5
86	The current understanding of immunotoxicity induced by silica nanoparticles. <i>Nanomedicine</i> , 2019, 14, 1227-1229.	3.3	5
87	An in vitro evaluation of the zirconia surface treatment by mesoporous zirconia coating on its bonding to resin cement. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 2109-2116.	0.6	4
88	Nec-1 attenuates inflammation and cytotoxicity induced by high glucose on THP-1 derived macrophages through RIP1. <i>Archives of Oral Biology</i> , 2020, 118, 104858.	1.8	4
89	Comparing digital and traditional guides in first molar implant surgery: A randomized clinical trial. <i>Technology and Health Care</i> , 2022, 30, 403-412.	1.2	4
90	Comparing Integrated and Disciplinary Clinical Training Patterns for Dental Interns: Advantages, Disadvantages, and Effect on Students' Self-Confidence. <i>Journal of Dental Education</i> , 2016, 80, 318-27.	1.2	4

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91	Measuring Global DNA Methylation to Assess Neurotoxicity of Titanium Dioxide Nanoparticles. <i>Science of Advanced Materials</i> , 2017, 9, 1051-1056.	0.7	3
92	Nano-graphene oxide depresses neurotransmission by blocking retrograde transport of mitochondria. <i>Journal of Hazardous Materials</i> , 2021, , 127660.	12.4	3
93	Perlecan and synaptophysin changes in denervated skeletal muscle. <i>Neural Regeneration Research</i> , 2012, 7, 1293-8.	3.0	3
94	Improvement of synaptic plasticity by nanoparticles and the related mechanisms: Applications and prospects. <i>Journal of Controlled Release</i> , 2022, 347, 143-163.	9.9	3
95	Influence of mesoporous silica coating treatment on push-out bond strength of zirconia posts. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 2187-2195.	0.6	2
96	The Effect of Artificial Ageing on Cytotoxicity of Nano-TiO <sub>2</sub> ; Silicone Elastomer. <i>Journal of Biomaterials and Tissue Engineering</i> , 2015, 5, 996-1002.	0.1	2
97	Perplexing relationship between bite force and occlusal contact area. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2011, 140, 753-754.	1.7	1
98	Prosthetic Rehabilitation of an External Auricle Defect With Silicone Rubber Using Extrinsic Staining. <i>Journal of Craniofacial Surgery</i> , 2013, 24, e302-e305.	0.7	1
99	Tantalum Particles Induced Cytotoxic and Inflammatory Effects in Human Monocytes. <i>BioMed Research International</i> , 2021, 2021, 1-10.	1.9	1
100	Effect of Forming Process on Flexural Properties of Posts Reinforced with Poly p-Phenylene-2,6-Benzobisoxazole Fibers. <i>Journal of Biomaterials and Tissue Engineering</i> , 2016, 6, 500-507.	0.1	1
101	<p></p>The Role of Tantalum Nanoparticles in Bone Regeneration Involves the BMP2/Smad4/Runx2 Signaling Pathway [Retraction]</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 3391-3392.	6.7	0
102	Apatite-forming ability of sandblasted and acid-etched titanium surfaces modified by ultraviolet irradiation: An in vitro study. <i>International Journal of Artificial Organs</i> , 2022, 45, 506-513.	1.4	0