

# Liang Zhao

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

2,768  
citations

172386

29  
h-index

189801

50  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3895  
citing authors

#	ARTICLE	IF	CITATIONS
1	Curcumin-primed exosomes potently ameliorate cognitive function in AD mice by inhibiting hyperphosphorylation of the Tau protein through the AKT/GSK-3 $\beta$ pathway. <i>Nanoscale</i> , 2019, 11, 7481-7496.	2.8	202
2	Combination therapy with BPTES nanoparticles and metformin targets the metabolic heterogeneity of pancreatic cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5328-36.	3.3	180
3	Exosomes from LPS-stimulated macrophages induce neuroprotection and functional improvement after ischemic stroke by modulating microglial polarization. <i>Biomaterials Science</i> , 2019, 7, 2037-2049.	2.6	142
4	Hyaluronic acid-coated chitosan nanoparticles induce ROS-mediated tumor cell apoptosis and enhance antitumor efficiency by targeted drug delivery via CD44. <i>Journal of Nanobiotechnology</i> , 2017, 15, 7.	4.2	124
5	Comparison of methods for evaluating drug-drug interaction. <i>Frontiers in Bioscience - Elite</i> , 2010, E2, 241-249.	0.9	120
6	Brain delivery of quercetin-loaded exosomes improved cognitive function in AD mice by inhibiting phosphorylated tau-mediated neurofibrillary tangles. <i>Drug Delivery</i> , 2020, 27, 745-755.	2.5	116
7	Macrophage-derived exosomes accelerate wound healing through their anti-inflammation effects in a diabetic rat model. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 3793-3803.	1.9	108
8	Exosomes derived from siRNA against GRP78 modified bone-marrow-derived mesenchymal stem cells suppress Sorafenib resistance in hepatocellular carcinoma. <i>Journal of Nanobiotechnology</i> , 2018, 16, 103.	4.2	97
9	Clinical pharmacology considerations in biologics development. <i>Acta Pharmacologica Sinica</i> , 2012, 33, 1339-1347.	2.8	81
10	Curcumin-laden exosomes target ischemic brain tissue and alleviate cerebral ischemia-reperfusion injury by inhibiting ROS-mediated mitochondrial apoptosis. <i>Materials Science and Engineering C</i> , 2020, 117, 111314.	3.8	80
11	Folic Acid-Chitosan Conjugated Nanoparticles for Improving Tumor-Targeted Drug Delivery. <i>BioMed Research International</i> , 2013, 2013, 1-6.	0.9	73
12	A general and green fluoroalkylation reaction promoted via noncovalent interactions between acetone and fluoroalkyl iodides. <i>Chemical Communications</i> , 2020, 56, 1815-1818.	2.2	68
13	Gefitinib loaded folate decorated bovine serum albumin conjugated carboxymethyl-beta-cyclodextrin nanoparticles enhance drug delivery and attenuate autophagy in folate receptor-positive cancer cells. <i>Journal of Nanobiotechnology</i> , 2014, 12, 43.	4.2	64
14	pH-responsive calcium alginate hydrogel laden with protamine nanoparticles and hyaluronan oligosaccharide promotes diabetic wound healing by enhancing angiogenesis and antibacterial activity. <i>Drug Delivery and Translational Research</i> , 2019, 9, 227-239.	3.0	64
15	Co-delivery of Gefitinib and chloroquine by chitosan nanoparticles for overcoming the drug acquired resistance. <i>Journal of Nanobiotechnology</i> , 2015, 13, 57.	4.2	57
16	Surface-modified engineered exosomes attenuated cerebral ischemia/reperfusion injury by targeting the delivery of quercetin towards impaired neurons. <i>Journal of Nanobiotechnology</i> , 2021, 19, 141.	4.2	57
17	Curcumin-loaded chitosan-bovine serum albumin nanoparticles potentially enhanced $A\beta$ 42 phagocytosis and modulated macrophage polarization in Alzheimer's disease. <i>Nanoscale Research Letters</i> , 2018, 13, 330.	3.1	55
18	Carboxymethyl- $\beta$ -cyclodextrin conjugated nanoparticles facilitate therapy for folate receptor-positive tumor with the mediation of folic acid. <i>International Journal of Pharmaceutics</i> , 2014, 474, 202-211.	2.6	53

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19	Development and application of vortex-assisted membrane extraction based on metal-organic framework mixed-matrix membrane for the analysis of estrogens in human urine. <i>Analytica Chimica Acta</i> , 2018, 1023, 35-43.	2.6	50
20	Curcumin-loaded chitosan nanoparticles promote diabetic wound healing via attenuating inflammation in a diabetic rat model. <i>Journal of Biomaterials Applications</i> , 2019, 34, 476-486.	1.2	46
21	A multifunctional antibacterial and self-healing hydrogel laden with bone marrow mesenchymal stem cell-derived exosomes for accelerating diabetic wound healing. <i>Materials Science and Engineering C</i> , 2022, 133, 112613.	3.8	45
22	Triphenyl Phosphine-Functionalized Chitosan Nanoparticles Enhanced Antitumor Efficiency Through Targeted Delivery of Doxorubicin to Mitochondria. <i>Nanoscale Research Letters</i> , 2017, 12, 158.	3.1	43
23	Chitosan nanoparticles triggered the induction of ROS-mediated cytoprotective autophagy in cancer cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 293-301.	1.9	41
24	Chitosan nanoparticles loaded hydrogels promote skin wound healing through the modulation of reactive oxygen species. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 138-149.	1.9	38
25	Edaravone-Loaded Macrophage-Derived Exosomes Enhance Neuroprotection in the Rat Permanent Middle Cerebral Artery Occlusion Model of Stroke. <i>Molecular Pharmaceutics</i> , 2020, 17, 3192-3201.	2.3	36
26	The Cell Surface GRP78 Facilitates the Invasion of Hepatocellular Carcinoma Cells. <i>BioMed Research International</i> , 2013, 2013, 1-8.	0.9	34
27	Chitosan nanoparticles induced the antitumor effect in hepatocellular carcinoma cells by regulating ROS-mediated mitochondrial damage and endoplasmic reticulum stress. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 747-756.	1.9	32
28	Preparation and characterization of imprinted monolith with metal ion as pivot. <i>Journal of Chromatography A</i> , 2011, 1218, 9071-9079.	1.8	31
29	Preparation of Biocompatible Carboxymethyl Chitosan Nanoparticles for Delivery of Antibiotic Drug. <i>BioMed Research International</i> , 2013, 2013, 1-7.	0.9	30
30	The role of c-Src in the invasion and metastasis of hepatocellular carcinoma cells induced by association of cell surface GRP78 with activated $\text{I}\kappa\text{B}$ . <i>BMC Cancer</i> , 2015, 15, 389.	1.1	29
31	Chitosan nanoparticle-mediated co-delivery of shAtg-5 and gefitinib synergistically promoted the efficacy of chemotherapeutics through the modulation of autophagy. <i>Journal of Nanobiotechnology</i> , 2017, 15, 28.	4.2	29
32	Plasma exosomes protect against cerebral ischemia/reperfusion injury via exosomal HSP70 mediated suppression of ROS. <i>Life Sciences</i> , 2020, 256, 117987.	2.0	29
33	Baicalin-loaded macrophage-derived exosomes ameliorate ischemic brain injury via the antioxidative pathway. <i>Materials Science and Engineering C</i> , 2021, 126, 112123.	3.8	29
34	Nanoparticles inhibit cancer cell invasion and enhance antitumor efficiency by targeted drug delivery via cell surface-related GRP78. <i>International Journal of Nanomedicine</i> , 2015, 10, 245.	3.3	27
35	Nanoparticle Delivery of Artesunate Enhances the Anti-tumor Efficiency by Activating Mitochondria-Mediated Cell Apoptosis. <i>Nanoscale Research Letters</i> , 2017, 12, 403.	3.1	27
36	A thermoreversible antibacterial zeolite-based nanoparticles loaded hydrogel promotes diabetic wound healing via detrimental factor neutralization and ROS scavenging. <i>Journal of Nanobiotechnology</i> , 2021, 19, 414.	4.2	27

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37	Biomimetic silibinin-loaded macrophage-derived exosomes induce dual inhibition of A $\beta$ aggregation and astrocyte activation to alleviate cognitive impairment in a model of Alzheimer's disease. <i>Materials Science and Engineering C</i> , 2021, 129, 112365.	3.8	24
38	Iron-Catalyzed Silylation of (Hetero)aryl Chlorides with Et <sub>3</sub> SiBpin. <i>Organic Letters</i> , 2020, 22, 2816-2821.	2.4	22
39	Brain Microvascular Endothelial Cell Derived Exosomes Potently Ameliorate Cognitive Dysfunction by Enhancing the Clearance of A $\beta$ Through Up-Regulation of P-gp in Mouse Model of AD. <i>Neurochemical Research</i> , 2020, 45, 2161-2172.	1.6	21
40	GRP78 confers the resistance to 5-FU by activating the c-Src/LSF/TS Axis in hepatocellular carcinoma. <i>Oncotarget</i> , 2015, 6, 33658-33674.	0.8	21
41	Preparation and characterization of novel chitosan-protamine nanoparticles for nucleus-targeted anticancer drug delivery. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 6035-6046.	3.3	20
42	In vitro and in vivo evaluation of SN-38 nanocrystals with different particle sizes. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 5487-5500.	3.3	20
43	Brain-targeted heptapeptide-loaded exosomes attenuated ischemia-reperfusion injury by promoting the transfer of healthy mitochondria from astrocytes to neurons. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	4.2	18
44	Preparation of biocompatible heat-labile enterotoxin subunit B-bovine serum albumin nanoparticles for improving tumor-targeted drug delivery via heat-labile enterotoxin subunit B mediation. <i>International Journal of Nanomedicine</i> , 2014, 9, 2149.	3.3	14
45	mAb MDR1-modified chitosan nanoparticles overcome acquired EGFR-TKI resistance through two potential therapeutic targets modulation of MDR1 and autophagy. <i>Journal of Nanobiotechnology</i> , 2017, 15, 66.	4.2	14
46	Fabrication of carboxymethylcellulose hydrogel containing $\beta$ -cyclodextrin-eugenol inclusion complexes for promoting diabetic wound healing. <i>Journal of Biomaterials Applications</i> , 2020, 34, 851-863.	1.2	14
47	Modification of electrospun poly(vinylidene fluoride-hexafluoropropylene) membranes through the introduction of poly(ethylene glycol) dimethacrylate. <i>Journal of Applied Polymer Science</i> , 2009, 111, 3104-3112.	1.3	13
48	Intracellular targeted co-delivery of shMDR1 and gefitinib with chitosan nanoparticles for overcoming multidrug resistance. <i>International Journal of Nanomedicine</i> , 2015, 10, 7045.	3.3	12
49	Ginkgolide B Alleviates Learning and Memory Impairment in Rats With Vascular Dementia by Reducing Neuroinflammation via Regulating NF- $\kappa$ B Pathway. <i>Frontiers in Pharmacology</i> , 2021, 12, 676392.	1.6	12
50	A biomimetic zeolite-based nanoenzyme contributes to neuroprotection in the neurovascular unit after ischaemic stroke via efficient removal of zinc and ROS. <i>Acta Biomaterialia</i> , 2022, 144, 142-156.	4.1	11
51	Characterization of Convection for Molecularly Imprinted Monolith. <i>Chromatographia</i> , 2010, 71, 559-569.	0.7	10
52	Protamine nanoparticles for improving shRNA-mediated anti-cancer effects. <i>Nanoscale Research Letters</i> , 2015, 10, 134.	3.1	10
53	The Photoinduced Metal-Free Hydrotrifluoromethylation of Vinyl Phosphonates or Phosphine Oxides. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 7475-7482.	1.2	10
54	Growth arrest and DNA damage-inducible protein 34 (GADD34) contributes to cerebral ischemic injury and can be detected in plasma exosomes. <i>Neuroscience Letters</i> , 2021, 758, 136004.	1.0	10

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55	Visible-Light-Induced Regioselective Deaminative Alkylation of Coumarins via Photoredox Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 24-29.	2.1	10
56	Chitosan nanoparticles loaded with aspirin and 5-fluorouracil enable synergistic antitumour activity through the modulation of NF- $\kappa$ B/COX-2 signalling pathway. <i>IET Nanobiotechnology</i> , 2020, 14, 479-484.	1.9	10
57	A new stochastic approach to multi-compartment pharmacokinetic models: probability of traveling route and distribution of residence time in linear and nonlinear systems. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2011, 38, 83-104.	0.8	9
58	Iron-catalyzed C-F bond silylation and borylation of fluoroarenes. <i>Organic Chemistry Frontiers</i> , 2021, 8, 5322-5327.	2.3	9
59	A novel brain targeted plasma exosomes enhance the neuroprotective efficacy of edaravone in ischemic stroke. <i>IET Nanobiotechnology</i> , 2021, 15, 107-116.	1.9	9
60	Plasma Exosomes Loaded pH-Responsive Carboxymethylcellulose Hydrogel Promotes Wound Repair by Activating the Vascular Endothelial Growth Factor Signaling Pathway in Type 1 Diabetic Mice. <i>Journal of Biomedical Nanotechnology</i> , 2021, 17, 2021-2033.	0.5	9
61	Bioengineered microglia-targeted exosomes facilitate A $\beta$ clearance via enhancing activity of microglial lysosome for promoting cognitive recovery in Alzheimer's disease. , 2022, 136, 212770.		9
62	Iodine-Catalyzed C-H Amidation and Imination at the 2-Position of 2,3-Disubstituted Indoles with Chloramine Salts. <i>Journal of Organic Chemistry</i> , 2018, 83, 4665-4673.	1.7	7
63	New developments in using stochastic recipe for multi-compartment model: Inter-compartment traveling route, residence time, and exponential convolution expansion. <i>Mathematical Biosciences and Engineering</i> , 2009, 6, 663-682.	1.0	6
64	Effects of arsenic trioxide on proliferation, paracrine and migration of cardiac progenitor cells. <i>International Journal of Cardiology</i> , 2015, 179, 393-396.	0.8	5
65	Carbon nanotubes grown on electrospun polyacrylonitrile-based carbon nanofibers via chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 863-869.	1.1	3
66	Sodium Alginate Coated Chitosan Nanoparticles Enhance Antitumor Efficiency via Smartly Regulating Drug Release at Different pH. <i>Journal of Biomaterials and Tissue Engineering</i> , 2017, 7, 127-133.	0.0	3
67	Palladium-catalyzed cross-coupling of benzylzinc reagents with 2-bromo-3,3,3-trifluoropropene. <i>Synthetic Communications</i> , 2019, 49, 3329-3334.	1.1	2
68	Preparation of Gefitinib Loaded Chitosan-Bovine Serum Albumin Nanoparticles for Enhancing Antitumor Effects. <i>Journal of Biomaterials and Tissue Engineering</i> , 2016, 6, 582-587.	0.0	2
69	Efficient Nucleus-Targeted Delivery of Gene by Nuclear Localization Signal Peptides-Mediated Nanoparticles. <i>Journal of Biomaterials and Tissue Engineering</i> , 2016, 6, 924-930.	0.0	2
70	Plasma Exosomes as a Therapeutic Approach Prevent the Cognitive Decline by Inhibiting Tau Protein Hyperphosphorylation in Alzheimer's Disease Mice. <i>Journal of Biomaterials and Tissue Engineering</i> , 2021, 11, 221-228.	0.0	0
71	Atom transfer radical additions (ATRA) promoted by catalytic amounts of amines: The effective iododifluoroalkylation of alkenes/alkynes. <i>Synthetic Communications</i> , 0, , 1-9.	1.1	0