Jinfeng Liao

List of Publications by Year
in descending order

61 papers	3,555 citations	136740 32 h-index	138251 58 g-index
62 all docs	62 docs citations	62 times ranked	5853 citing authors

#	Article	IF	Citations
1	Nanomaterials and bone regeneration. Bone Research, 2015, 3, 15029.	5.4	415
2	The Effect of shape on Cellular Uptake of Gold Nanoparticles in the forms of Stars, Rods, and Triangles. Scientific Reports, 2017, 7, 3827.	1.6	280
3	Combined Cancer Photothermal-Chemotherapy Based on Doxorubicin/Gold Nanorod-Loaded Polymersomes. Theranostics, 2015, 5, 345-356.	4.6	172
4	Injectable thermosensitive PEGâ€“PCLâ€“PEG hydrogel/acellular bone matrix composite for bone regeneration in cranial defects. Biomaterials, 2014, 35, 236-248.	5.7	139
5	Biodegradable CSMA/PECA/Graphene Porous Hybrid Scaffold for Cartilage Tissue Engineering. Scientific Reports, 2015, 5, 9879.	1.6	133
6	The fabrication of biomimetic biphasic CAN-PAC hydrogel with a seamless interfacial layer applied in osteochondral defect repair. Bone Research, 2017, 5, 17018.	5.4	127
7	Review of a new bone tumor therapy strategy based on bifunctional biomaterials. Bone Research, 2021, 9, 18.	5.4	125
8	The design, mechanism and biomedical application of self-healing hydrogels. Chinese Chemical Letters, 2017, 28, 1857-1874.	4.8	116
9	A biodegradable thermo-responsive hybrid hydrogel: therapeutic applications in preventing the post-operative recurrence of breast cancer. NPG Asia Materials, 2015, 7, e207-e207.	3.8	113
10	Controlled release of cisplatin from pH-thermal dual responsive nanogels. Biomaterials, 2013, 34, 8726-8740.	5.7	109
11	Mesoporous Magnetic Gold â€œNanoclustersâ€•as Theranostic Carrier for Chemo-Photothermal Co-therapy of Breast Cancer. Theranostics, 2014, 4, 678-692.	4.6	103
12	Gold nanorods and nanohydroxyapatite hybrid hydrogel for preventing bone tumor recurrence via postoperative photothermal therapy and bone regeneration promotion. Bioactive Materials, 2021, 6, 2221-2230.	8.6	100
13	The immune reaction and degradation fate of scaffold in cartilage/bone tissue engineering. Materials Science and Engineering C, 2019, 104, 109927.	3.8	99
14	Polymer hybrid magnetic nanocapsules encapsulating IR820 and PTX for external magnetic field-guided tumor targeting and multifunctional theranostics. Nanoscale, 2017, 9, 2479-2491.	2.8	80
15	Biomaterial-based strategies for maxillofacial tumour therapy and bone defect regeneration. International Journal of Oral Science, 2021, 13, 9.	3.6	78
16	Injectable Alginate Hydrogel Cross-Linked by Calcium Gluconate-Loaded Porous Microspheres for Cartilage Tissue Engineering. ACS Omega, 2017, 2, 443-454.	1.6	77
17	Graphene-Nanoparticle-Based Self-Healing Hydrogel in Preventing Postoperative Recurrence of Breast Cancer. ACS Biomaterials Science and Engineering, 2019, 5, 768-779.	2.6	73
18	Recent Developments in Scaffold-Guided Cartilage Tissue Regeneration. Journal of Biomedical Nanotechnology, 2014, 10, 3085-3104.	0.5	65

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19	A Review on Hydrogels with Photothermal Effect in Wound Healing and Bone Tissue Engineering. Polymers, 2021, 13, 2100.	2.0	65
20	Recent Advances in Formation, Properties, and Applications of Polymersomes. Current Pharmaceutical Design, 2012, 18, 3432-3441.	0.9	58
21	Label-free alpha fetoprotein immunosensor established by the facile synthesis of a palladiumâ€“graphene nanocomposite. Biosensors and Bioelectronics, 2014, 61, 245-250.	5.3	57
22	Synthesis and characterization of novel dual-responsive nanogels and their application as drug delivery systems. Nanoscale, 2012, 4, 2694.	2.8	56
23	Hybrid cellulose nanocrystal/alginate/gelatin scaffold with improved mechanical properties and guided wound healing. RSC Advances, 2019, 9, 22966-22979.	1.7	55
24	Improvement of Gold Nanorods in Photothermal Therapy: Recent Progress and Perspective. Frontiers in Pharmacology, 2021, 12, 664123.	1.6	55
25	Curcumin-Microsphere/IR820 Hybrid Bifunctional Hydrogels for In Situ Osteosarcoma Chemo-co-Thermal Therapy and Bone Reconstruction. ACS Applied Materials & Interfaces, 2021, 13, 31542-31553.	4.0	50
26	Green synthesis of carrier-free curcumin nanodrugs for light-activated breast cancer photodynamic therapy. Colloids and Surfaces B: Biointerfaces, 2019, 180, 313-318.	2.5	49
27	Fabrication of Calcium Phosphate Microflowers and Their Extended Application in Bone Regeneration. ACS Applied Materials & Interfaces, 2017, 9, 30437-30447.	4.0	48
28	Injectable and thermosensitive TGF-Î²1-loaded PCEC hydrogel system for in vivo cartilage repair. Scientific Reports, 2017, 7, 10553.	1.6	47
29	Injectable Hybrid Poly(Îµ-caprolactone)-b-poly(ethylene glycol)-b-poly(Îµ-caprolactone) Porous Microspheres/Alginate Hydrogel Cross-linked by Calcium Gluconate Crystals Deposited in the Pores of Microspheres Improved Skin Wound Healing. ACS Biomaterials Science and Engineering, 2018, 4, 1029-1036.	2.6	45
30	<scp>PCL</scp>â€<scp>PEG</scp>â€<scp>PCL</scp> film promotes cartilage regeneration in vivo. Cell Proliferation, 2016, 49, 729-739.	2.4	44
31	Physicalâ€, chemicalâ€, and biologicalâ€responsive nanomedicine for cancer therapy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1581.	3.3	44
32	Advances and trends of hydrogel therapy platform in localized tumor treatment: A review. Journal of Biomedical Materials Research - Part A, 2021, 109, 404-425.	2.1	42
33	Different Sources of Stem Cells and their Application in Cartilage Tissue Engineering. Current Stem Cell Research and Therapy, 2018, 13, 568-575.	0.6	38
34	A Review on the Design of Hydrogels With Different Stiffness and Their Effects on Tissue Repair. Frontiers in Bioengineering and Biotechnology, 2022, 10, 817391.	2.0	38
35	Near-infrared light control of GelMA/PMMA/PDA hydrogel with mild photothermal therapy for skull regeneration. Materials Science and Engineering C, 2022, 133, 112641.	3.8	33
36	Restorative biodegradable two-layered hybrid microneedles for melanoma photothermal/chemo co-therapy and wound healing. Journal of Nanobiotechnology, 2022, 20, 238.	4.2	31

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37	An injectable, self-healing carboxymethylated chitosan hydrogel with mild photothermal stimulation for wound healing. Carbohydrate Polymers, 2022, 293, 119722.	5.1	30
38	Tea Polyphenolâ€“Functionalized Graphene/Chitosan as an Experimental Platform with Improved Mechanical Behavior and Bioactivity. ACS Applied Materials & Interfaces, 2015, 7, 20893-20901.	4.0	27
39	Near-infrared light-responsive hybrid hydrogels for the synergistic chemo-photothermal therapy of oral cancer. Nanoscale, 2021, 13, 17168-17182.	2.8	23
40	Role of Hydrogels in Bone Tissue Engineering: How Properties Shape Regeneration. Journal of Biomedical Nanotechnology, 2020, 16, 1667-1686.	0.5	21
41	Photothermal hydrogel platform for prevention of post-surgical tumor recurrence and improving breast reconstruction. Journal of Nanobiotechnology, 2021, 19, 307.	4.2	21
42	Multifunctional Nanostructured Materials for Multimodal Cancer Imaging and Therapy. Journal of Nanoscience and Nanotechnology, 2014, 14, 175-189.	0.9	20
43	Anti-Tumor Activity and Safety Evaluation of Fisetin-Loaded Methoxy Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 50 2014, 10, 580-591.	0.5	17
44	Research on Graphene and Its Derivatives in Oral Disease Treatment. International Journal of Molecular Sciences, 2022, 23, 4737.	1.8	15
45	The Review of Nanomaterials Inducing the Differentiation of Stem Cells into Chondrocyte Phenotypes in Cartilage Tissue Engineering. Current Stem Cell Research and Therapy, 2018, 13, 600-607.	0.6	14
46	Colorimetric detection of cancer biomarker based on pH induced color change. Sensors and Actuators B: Chemical, 2012, 166-167, 56-60.	4.0	13
47	Dexamethasone-Loaded Poly(D, L-lactic acid) Microspheres/Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (glyc Augmentation. Journal of Biomedical Nanotechnology, 2014, 10, 592-602.	0.5	13
48	A potential flower-like coating consisting of calcium-phosphate nanosheets on titanium surface. Chinese Chemical Letters, 2017, 28, 1893-1896.	4.8	13
49	A review: potential application and outlook of photothermal therapy in oral cancer treatment. Biomedical Materials (Bristol), 2022, 17, 022008.	1.7	11
50	In Vivo Biodistribution, Clearance, and Biocompatibility of Multiple Carbon Dots Containing Nanoparticles for Biomedical Application. Pharmaceutics, 2021, 13, 1872.	2.0	10
51	Preparation and Properties of Nano-Hydroxyapatite/Gelatin/Poly(vinyl alcohol) Composite Membrane. Journal of Nanoscience and Nanotechnology, 2015, 15, 4188-4192.	0.9	9
52	Influences of Tumor Necrosis Factorâ€“Î± on Lysyl Oxidases and Matrix Metalloproteinases of Injured Anterior Cruciate Ligament and Medial Collateral Ligament Fibroblasts. Journal of Knee Surgery, 2017, 30, 78-87.	0.9	6
53	Broadening the biocompatibility of gold nanorods from rat to Macaca fascicularis: advancing clinical potential. Journal of Nanobiotechnology, 2021, 19, 195.	4.2	6
54	Physical Cues Drive Chondrogenic Differentiation. Current Stem Cell Research and Therapy, 2018, 13, 576-582.	0.6	6

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55	A Nonenzymatic Electrochemical Immunosensor for Ultrasensitive Detection of Tumor Biomarkers Based on Palladium Nanoparticles Conjugated Reduced Graphene Nanosheets. Journal of Biomedical Nanotechnology, 2015, 11, 2050-2056.	0.5	5
56	Characterization, Specific Demand and Application of Nanomaterials in Bone Regeneration. Journal of Nanoscience and Nanotechnology, 2016, 16, 9381-9392.	0.9	5
57	Stem Cells and Cartilage Tissue Engineering. Current Stem Cell Research and Therapy, 2018, 13, 489-489.	0.6	3
58	Effect of Micro-/Nanoparticle Hybrid Hydrogel Platform on the Treatment of Articular Cartilage-Related Diseases. Gels, 2021, 7, 155.	2.1	3
59	Recent Research on Hybrid Hydrogels for Infection Treatment and Bone Repair. Gels, 2022, 8, 306.	2.1	3
60	Preparation and Characterization of Epoxidized Methyl Oleate-Graphite Oxide/Poly(L-lactide) Electrospun Hybrid Fibrous Scaffolds for Tissue Engineering Applications. Science of Advanced Materials, 2014, 6, 1769-1777.	0.1	2
61	Preparation of Polystyrene Microspheres/PEG-PCL-PEG Hydrogel Composite for Soft Tissue Augmentation. Science of Advanced Materials, 2014, 6, 1820-1827.	0.1	0