

# Jichuan Qiu

## List of Publications by Year in descending order

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70  
papers

3,016  
citations

126907

33  
h-index

168389

53  
g-index

71  
all docs

71  
docs citations

71  
times ranked

5099  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic Scaffolds with a Mineral Gradient and Funnel-Shaped Channels for Spatially Controllable Osteogenesis. <i>Advanced Healthcare Materials</i> , 2022, 11, e2100828.	7.6	8
2	Bimetallic Janus Nanocrystals: Syntheses and Applications. <i>Advanced Materials</i> , 2022, 34, e2102591.	21.0	55
3	Accelerating Cell Migration along Radially Aligned Nanofibers through the Addition of Electrospayed Nanoparticles in a Radial Density Gradient. <i>Particle and Particle Systems Characterization</i> , 2022, 39, .	2.3	8
4	The use of connective tissue growth factor mimics for flexor tendon repair. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2754-2762.	2.3	1
5	Using computational methods to design patient-specific electrospun cardiac patches for pediatric heart failure. <i>Biomaterials</i> , 2022, 283, 121421.	11.4	2
6	Gold Nanostrip Array-Mediated Wireless Electrical Stimulation for Accelerating Functional Neuronal Differentiation. <i>Advanced Science</i> , 2022, 9, .	11.2	11
7	Polystyrene-Silica Colloidal Janus Particles with Uniform Shapes and Complex Structures. <i>Particle and Particle Systems Characterization</i> , 2022, 39, .	2.3	2
8	Highly specific differentiation of MSCs into neurons directed by local electrical stimuli triggered wirelessly by electromagnetic induction nanogenerator. <i>Nano Energy</i> , 2022, 100, 107483.	16.0	13
9	Nanobottles for Controlled Release and Drug Delivery. <i>Advanced Healthcare Materials</i> , 2021, 10, 2000587.	7.6	20
10	Augmenting Tendon-to-Bone Repair with Functionally Graded Scaffolds. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002269.	7.6	34
11	Swelling-Induced Symmetry Breaking: A Versatile Approach to the Scalable Production of Colloidal Particles with a Janus Structure. <i>Angewandte Chemie</i> , 2021, 133, 13090-13094.	2.0	7
12	Swelling-Induced Symmetry Breaking: A Versatile Approach to the Scalable Production of Colloidal Particles with a Janus Structure. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12980-12984.	13.8	28
13	Polydopamine Nanobottles with Photothermal Capability for Controlled Release and Related Applications. <i>Advanced Materials</i> , 2021, 33, e2104729.	21.0	31
14	Radiolabeling of Gold Nanocages for Potential Applications in Tracking, Diagnosis, and Image-Guided Therapy. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002031.	7.6	16
15	Gold nanocages for effective photothermal conversion and related applications. <i>Chemical Science</i> , 2020, 11, 12955-12973.	7.4	46
16	Promoting Cell Migration and Neurite Extension along Uniaxially Aligned Nanofibers with Biomacromolecular Particles in a Density Gradient. <i>Advanced Functional Materials</i> , 2020, 30, 2002031.	14.9	43
17	Phase-Change Materials for Controlled Release and Related Applications. <i>Advanced Materials</i> , 2020, 32, e2000660.	21.0	140
18	Killing cancer cells by rupturing their lysosomes. <i>Nature Nanotechnology</i> , 2020, 15, 252-253.	31.5	33

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19	Spatiotemporally Controlling the Release of Biological Effectors Enhances Their Effects on Cell Migration and Neurite Outgrowth. <i>Small Methods</i> , 2020, 4, 2000125.	8.6	17
20	Continuous Production of Water-Soluble Nanocrystals through Anti-Solvent Precipitation in a Fluidic Device. <i>ChemNanoMat</i> , 2019, 5, 1131-1136.	2.8	3
21	Direct Visualization and Semi-Quantitative Analysis of Payload Loading in the Case of Gold Nanocages. <i>Angewandte Chemie</i> , 2019, 131, 17835-17838.	2.0	0
22	Direct Visualization and Semi-Quantitative Analysis of Payload Loading in the Case of Gold Nanocages. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17671-17674.	13.8	9
23	General Approach to the Synthesis of Heterodimers of Metal Nanoparticles through Site-Selected Protection and Growth. <i>Nano Letters</i> , 2019, 19, 6703-6708.	9.1	51
24	Identification of surface-passivating ligands and core-size-dependent CdSe/CdZnS with highly emitting for cell labeling. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 112, 142-148.	2.7	1
25	Encapsulation of a Phase-Change Material in Nanocapsules with a Well-Defined Hole in the Wall for the Controlled Release of Drugs. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10606-10611.	13.8	102
26	Encapsulation of a Phase-Change Material in Nanocapsules with a Well-Defined Hole in the Wall for the Controlled Release of Drugs. <i>Angewandte Chemie</i> , 2019, 131, 10716-10721.	2.0	87
27	Au@Cu Core-Shell Nanocubes with Controllable Sizes in the Range of 20-30 nm for Applications in Catalysis and Plasmonics. <i>ACS Applied Nano Materials</i> , 2019, 2, 1533-1540.	5.0	22
28	Synthesis, Transformation, and Utilization of Monodispersed Colloidal Spheres. <i>Accounts of Chemical Research</i> , 2019, 52, 3475-3487.	15.6	44
29	Polylactic Acid Nanopillar Array-Driven Osteogenic Differentiation of Human Adipose-Derived Stem Cells Determined by Pillar Diameter. <i>Nano Letters</i> , 2018, 18, 2243-2253.	9.1	92
30	Tissue Regeneration: Design and Fabrication of a Hierarchically Structured Scaffold for Tendon-Bone Repair ( <i>Adv. Mater.</i> 16/2018). <i>Advanced Materials</i> , 2018, 30, 1870116.	21.0	15
31	Nanostructured molybdenum disulfide biointerface for adhesion and osteogenic differentiation of mesenchymal stem cells. <i>Applied Materials Today</i> , 2018, 10, 164-172.	4.3	37
32	Killing two birds with one stone: To eliminate the toxicity and enhance the photocatalytic property of CdS nanobelts by assembling ultrafine TiO <sub>2</sub> nanowires on them. <i>Solar Energy Materials and Solar Cells</i> , 2018, 183, 41-47.	6.2	50
33	Design and Fabrication of a Hierarchically Structured Scaffold for Tendon-Bone Repair. <i>Advanced Materials</i> , 2018, 30, e1707306.	21.0	82
34	Mass-production of fluorescent chitosan/graphene oxide hybrid microspheres for in vitro 3D expansion of human umbilical cord mesenchymal stem cells. <i>Chemical Engineering Journal</i> , 2018, 331, 675-684.	12.7	28
35	Inverse Opal Scaffolds with Gradations in Mineral Content for Spatial Control of Osteogenesis. <i>Advanced Materials</i> , 2018, 30, e1706706.	21.0	30
36	Terbium-Aspartic Acid Nanocrystals with Chirality-Dependent Tunable Fluorescent Properties. <i>ACS Nano</i> , 2017, 11, 1973-1981.	14.6	27

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37	A Nanostructured Molybdenum Disulfide Film for Promoting Neural Stem Cell Neuronal Differentiation: toward a Nerve Tissue-Engineered 3D Scaffold. <i>Advanced Biology</i> , 2017, 1, e1600042.	3.0	45
38	Static pressure-induced neural differentiation of mesenchymal stem cells. <i>Nanoscale</i> , 2017, 9, 10031-10037.	5.6	9
39	TiO <sub>2</sub> nanorod arrays as a photocatalytic coating enhanced antifungal and antibacterial efficiency of Ti substrates. <i>Nanomedicine</i> , 2017, 12, 761-776.	3.3	22
40	Growth and accelerated differentiation of mesenchymal stem cells on graphene-oxide-coated titanate with dexamethasone on surface of titanium implants. <i>Dental Materials</i> , 2017, 33, 525-535.	3.5	53
41	TiO <sub>2</sub> nanorod arrays modified Ti substrates promote the adhesion, proliferation and osteogenic differentiation of human periodontal ligament stem cells. <i>Materials Science and Engineering C</i> , 2017, 76, 684-691.	7.3	38
42	Nanostructured titanium foam with metal ions incorporation for promoting osteogenic differentiation of mesenchymal stem cells. <i>Journal of Alloys and Compounds</i> , 2017, 729, 816-822.	5.5	6
43	Graphene microfiber as a scaffold for regulation of neural stem cells differentiation. <i>Scientific Reports</i> , 2017, 7, 5678.	3.3	67
44	Prolonged fluorescence lifetime of carbon quantum dots by combining with hydroxyapatite nanorods for bio-applications. <i>Nanoscale</i> , 2017, 9, 2162-2171.	5.6	37
45	A novel aptameric biosensor based on the self-assembled DNA-WS <sub>2</sub> nanosheet architecture. <i>Talanta</i> , 2017, 163, 78-84.	5.5	26
46	A titanium dioxide nanorod array as a high-affinity nano-bio interface of a microfluidic device for efficient capture of circulating tumor cells. <i>Nano Research</i> , 2017, 10, 776-784.	10.4	22
47	Effects of Graphene Quantum Dots on the Self-Renewal and Differentiation of Mesenchymal Stem Cells. <i>Advanced Healthcare Materials</i> , 2016, 5, 702-710.	7.6	103
48	Rutile Nanorod/Anatase Nanowire Junction Array as Both Sensor and Power Supplier for High-Performance, Self-Powered, Wireless UV Photodetector. <i>Small</i> , 2016, 12, 2759-2767.	10.0	66
49	Construction of titanium dioxide nanorod/graphite microfiber hybrid electrodes for a high performance electrochemical glucose biosensor. <i>Nanoscale</i> , 2016, 8, 9382-9389.	5.6	39
50	Specific detection of potassium ion in serum by a modified G-quadruplex method. <i>RSC Advances</i> , 2016, 6, 41999-42007.	3.6	13
51	Self-Powered Electrical Stimulation for Enhancing Neural Differentiation of Mesenchymal Stem Cells on Graphene-Poly(3,4-ethylenedioxythiophene) Hybrid Microfibers. <i>ACS Nano</i> , 2016, 10, 5086-5095.	14.6	249
52	Bright YAG:Ce Nanorod Phosphors Prepared via a Partial Wet Chemical Route and Biolabeling Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11990-11997.	8.0	26
53	Eu/Tb codoped spindle-shaped fluorinated hydroxyapatite nanoparticles for dual-color cell imaging. <i>Nanoscale</i> , 2016, 8, 11580-11587.	5.6	41
54	Microenvironment-Driven Bioelimination of Magnetoplasmonic Nanoassemblies and Their Multimodal Imaging-Guided Tumor Photothermal Therapy. <i>ACS Nano</i> , 2016, 10, 7094-7105.	14.6	97

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55	TiO <sub>2</sub> Nanorod Array Constructed Nanotopography for Regulation of Mesenchymal Stem Cells Fate and the Realization of Location-Committed Stem Cell Differentiation. <i>Small</i> , 2016, 12, 1770-1778.	10.0	57
56	Localized committed differentiation of neural stem cells based on the topographical regulation effects of TiO <sub>2</sub> nanostructured ceramics. <i>Nanoscale</i> , 2016, 8, 13186-13191.	5.6	11
57	Cellular internalization of LiNbO <sub>3</sub> nanocrystals for second harmonic imaging and the effects on stem cell differentiation. <i>Nanoscale</i> , 2016, 8, 7416-7422.	5.6	21
58	Construction of a 3D rGO-collagen hybrid scaffold for enhancement of the neural differentiation of mesenchymal stem cells. <i>Nanoscale</i> , 2016, 8, 1897-1904.	5.6	127
59	An Impedimetric-Fluorescence Double-Checking Biosensor with Enhanced Reliability Based on Graphene Oxide. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500279.	3.7	3
60	Scaly Graphene Oxide/Graphite Fiber Hybrid Electrodes for DNA Biosensors. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500072.	3.7	8
61	Fluorescent graphene quantum dots as traceable, pH-sensitive drug delivery systems. <i>International Journal of Nanomedicine</i> , 2015, 10, 6709.	6.7	79
62	Surface Charge Regulation of Osteogenic Differentiation of Mesenchymal Stem Cell on Polarized Ferroelectric Crystal Substrate. <i>Advanced Healthcare Materials</i> , 2015, 4, 998-1003.	7.6	79
63	NiO-TiO <sub>2</sub> heterostructured nanocables bridged by zero-bandgap rGO for highly efficient photocatalytic water splitting. <i>Nano Energy</i> , 2015, 16, 207-217.	16.0	136
64	Sustained delivery of BMP-2 enhanced osteoblastic differentiation of BMSCs based on surface hydroxyapatite nanostructure in chitosan-HAP scaffold. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014, 25, 1813-1827.	3.5	29
65	Nanostructured Titanate with Different Metal Ions on the Surface of Metallic Titanium: A Facile Approach for Regulation of rBMSCs Fate on Titanium Implants. <i>Small</i> , 2014, 10, 3169-3180.	10.0	49
66	Biopolymer/Calcium Phosphate Scaffolds for Bone Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2014, 3, 469-484.	7.6	97
67	Highly biocompatible POSS-coated CdTe quantum dots for cell labeling. <i>RSC Advances</i> , 2014, 4, 598-604.	3.6	9
68	Carbodiimide crosslinked collagen from porcine dermal matrix for high-strength tissue engineering scaffold. <i>International Journal of Biological Macromolecules</i> , 2013, 61, 69-74.	7.5	56
69	In vitro Investigation on the Biodegradability and Biocompatibility of Genipin Cross-linked Porcine Acellular Dermal Matrix with Intrinsic Fluorescence. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 344-350.	8.0	36
70	Graphene oxide-reinforced biodegradable genipin-cross-linked chitosan fluorescent biocomposite film and its cytocompatibility. <i>International Journal of Nanomedicine</i> , 2013, 8, 3415.	6.7	64