

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	Self-Powered Electrical Stimulation for Enhancing Neural Differentiation of Mesenchymal Stem Cells on Graphene-Poly(3,4-ethylenedioxythiophene) Hybrid Microfibers. ACS Nano, 2016, 10, 5086-5095.	14.6	249
2	Phase-Change Materials for Controlled Release and Related Applications. Advanced Materials, 2020, 32, e2000660.	21.0	140
3	NiO-TiO ₂ heterostructured nanocables bridged by zero-bandgap rGO for highly efficient photocatalytic water splitting. Nano Energy, 2015, 16, 207-217.	16.0	136
4	Construction of a 3D rGO-collagen hybrid scaffold for enhancement of the neural differentiation of mesenchymal stem cells. Nanoscale, 2016, 8, 1897-1904.	5.6	127
5	Effects of Graphene Quantum Dots on the Self-Renewal and Differentiation of Mesenchymal Stem Cells. Advanced Healthcare Materials, 2016, 5, 702-710.	7.6	103
6	Encapsulation of a Phase-Change Material in Nanocapsules with a Well-Defined Hole in the Wall for the Controlled Release of Drugs. Angewandte Chemie - International Edition, 2019, 58, 10606-10611.	13.8	102
7	Biopolymer/Calcium Phosphate Scaffolds for Bone Tissue Engineering. Advanced Healthcare Materials, 2014, 3, 469-484.	7.6	97
8	Microenvironment-Driven Bioelimination of Magnetoplasmonic Nanoassemblies and Their Multimodal Imaging-Guided Tumor Photothermal Therapy. ACS Nano, 2016, 10, 7094-7105.	14.6	97
9	Poly(lactic Acid) Nanopillar Array-Driven Osteogenic Differentiation of Human Adipose-Derived Stem Cells Determined by Pillar Diameter. Nano Letters, 2018, 18, 2243-2253.	9.1	92
10	Encapsulation of a Phase-Change Material in Nanocapsules with a Well-Defined Hole in the Wall for the Controlled Release of Drugs. Angewandte Chemie, 2019, 131, 10716-10721.	2.0	87
11	Design and Fabrication of a Hierarchically Structured Scaffold for Tendon-Bone Repair. Advanced Materials, 2018, 30, e1707306.	21.0	82
12	Fluorescent graphene quantum dots as traceable, pH-sensitive drug delivery systems. International Journal of Nanomedicine, 2015, 10, 6709.	6.7	79
13	Surface Charge Regulation of Osteogenic Differentiation of Mesenchymal Stem Cell on Polarized Ferroelectric Crystal Substrate. Advanced Healthcare Materials, 2015, 4, 998-1003.	7.6	79
14	Graphene microfiber as a scaffold for regulation of neural stem cells differentiation. Scientific Reports, 2017, 7, 5678.	3.3	67
15	Rutile Nanorod/Anatase Nanowire Junction Array as Both Sensor and Power Supplier for High-Performance, Self-Powered, Wireless UV Photodetector. Small, 2016, 12, 2759-2767.	10.0	66
16	Graphene oxide-reinforced biodegradable genipin-cross-linked chitosan fluorescent biocomposite film and its cytocompatibility. International Journal of Nanomedicine, 2013, 8, 3415.	6.7	64
17	TiO ₂ Nanorod Array Constructed Nanotopography for Regulation of Mesenchymal Stem Cells Fate and the Realization of Location-Committed Stem Cell Differentiation. Small, 2016, 12, 1770-1778.	10.0	57
18	Carbodiimide crosslinked collagen from porcine dermal matrix for high-strength tissue engineering scaffold. International Journal of Biological Macromolecules, 2013, 61, 69-74.	7.5	56

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19	Bimetallic Janus Nanocrystals: Syntheses and Applications. <i>Advanced Materials</i> , 2022, 34, e2102591.	21.0	55
20	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
21	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
22	Killing two birds with one stone: To eliminate the toxicity and enhance the photocatalytic property of CdS nanobelts by assembling ultrafine TiO ₂ nanowires on them. <i>Solar Energy Materials and Solar Cells</i> , 2018, 183, 41-47.	6.2	50
23	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
24	Gold nanocages for effective photothermal conversion and related applications. <i>Chemical Science</i> , 2020, 11, 12955-12973.	7.4	46
25	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
26	Synthesis, Transformation, and Utilization of Monodispersed Colloidal Spheres. <i>Accounts of Chemical Research</i> , 2019, 52, 3475-3487.	15.6	44
27	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
28	Eu/Tb codoped spindle-shaped fluorinated hydroxyapatite nanoparticles for dual-color cell imaging. <i>Nanoscale</i> , 2016, 8, 11580-11587.	5.6	41
29	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
30	TiO ₂ 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
31	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
32	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
33	In vitro Investigation on the Biodegradability and Biocompatibility of Genipin Cross-linked Porcine Acellular Dermal Matrix with Intrinsic Fluorescence. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 344-350.	8.0	36
34	Augmenting Tendon-Bone Repair with Functionally Graded Scaffolds. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002269.	7.6	34
35	Killing cancer cells by rupturing their lysosomes. <i>Nature Nanotechnology</i> , 2020, 15, 252-253.	31.5	33
36	Polydopamine Nanobottles with Photothermal Capability for Controlled Release and Related Applications. <i>Advanced Materials</i> , 2021, 33, e2104729.	21.0	31

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37	Inverse Opal Scaffolds with Gradations in Mineral Content for Spatial Control of Osteogenesis. <i>Advanced Materials</i> , 2018, 30, e1706706.	21.0	30
38	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
39	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
40	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
41	Terbium-Aspartic Acid Nanocrystals with Chirality-Dependent Tunable Fluorescent Properties. <i>ACS Nano</i> , 2017, 11, 1973-1981.	14.6	27
42	Bright YAG:Ce Nanorod Phosphors Prepared via a Partial Wet Chemical Route and Biolabeling Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11990-11997.	8.0	26
43	A novel aptameric biosensor based on the self-assembled DNA-WS2 nanosheet architecture. <i>Talanta</i> , 2017, 163, 78-84.	5.5	26
44	TiO ₂ nanorod arrays as a photocatalytic coating enhanced antifungal and antibacterial efficiency of Ti substrates. <i>Nanomedicine</i> , 2017, 12, 761-776.	3.3	22
45	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
46	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
47	Cellular internalization of LiNbO ₃ nanocrystals for second harmonic imaging and the effects on stem cell differentiation. <i>Nanoscale</i> , 2016, 8, 7416-7422.	5.6	21
48	Nanobottles for Controlled Release and Drug Delivery. <i>Advanced Healthcare Materials</i> , 2021, 10, 2000587.	7.6	20
49	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
50	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
51	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
52	Specific detection of potassium ion in serum by a modified G-quadruplex method. <i>RSC Advances</i> , 2016, 6, 41999-42007.	3.6	13
53	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
54	Localized committed differentiation of neural stem cells based on the topographical regulation effects of TiO ₂ nanostructured ceramics. <i>Nanoscale</i> , 2016, 8, 13186-13191.	5.6	11

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55	Gold Nanostrip Arrayâ€Mediated Wireless Electrical Stimulation for Accelerating Functional Neuronal Differentiation. <i>Advanced Science</i> , 2022, 9, .	11.2	11
56	Highly biocompatible POSS-coated CdTe quantum dots for cell labeling. <i>RSC Advances</i> , 2014, 4, 598-604.	3.6	9
57	Static pressure-induced neural differentiation of mesenchymal stem cells. <i>Nanoscale</i> , 2017, 9, 10031-10037.	5.6	9
58	Direct Visualization and Semiâ€Quantitative Analysis of Payload Loading in the Case of Gold Nanocages. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17671-17674.	13.8	9
59	Scaly Graphene Oxide/Graphite Fiber Hybrid Electrodes for DNA Biosensors. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500072.	3.7	8
60	Biomimetic Scaffolds with a Mineral Gradient and Funnelâ€Shaped Channels for Spatially Controllable Osteogenesis. <i>Advanced Healthcare Materials</i> , 2022, 11, e2100828.	7.6	8
61	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
62	Swellingâ€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
63	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
64	An Impedimetricâ€Fluorescence Doubleâ€Checking Biosensor with Enhanced Reliability Based on Graphene Oxide. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500279.	3.7	3
65	Continuous Production of Waterâ€Soluble Nanocrystals through Antiâ€Solvent Precipitation in a Fluidic Device. <i>ChemNanoMat</i> , 2019, 5, 1131-1136.	2.8	3
66	Using computational methods to design patient-specific electrospun cardiac patches for pediatric heart failure. <i>Biomaterials</i> , 2022, 283, 121421.	11.4	2
67	Polystyreneâ€Silica Colloidal Janus Particles with Uniform Shapes and Complex Structures. <i>Particle and Particle Systems Characterization</i> , 2022, 39, .	2.3	2
68	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
69	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
70	Direct Visualization and Semiâ€Quantitative Analysis of Payload Loading in the Case of Gold Nanocages. <i>Angewandte Chemie</i> , 2019, 131, 17835-17838.	2.0	0