

Hongchen Sun

List of Publications by Year in descending order

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34
papers

4,492
citations

361413

20
h-index

377865

34
g-index

34
all docs

34
docs citations

34
times ranked

7225
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Photoluminescent Carbon Dots for Multicolor Patterning, Sensors, and Bioimaging. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3953-3957.	13.8	2,907
2	One-step hydrothermal synthesis of photoluminescent carbon nanodots with selective antibacterial activity against <i>Porphyromonas gingivalis</i> . <i>Nanoscale</i> , 2017, 9, 7135-7142.	5.6	201
3	Aspirin-Based Carbon Dots, a Good Biocompatibility of Material Applied for Bioimaging and Anti-Inflammation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32706-32716.	8.0	140
4	Fe ₃ O ₄ @polydopamine Composite Theranostic Superparticles Employing Preassembled Fe ₃ O ₄ Nanoparticles as the Core. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22942-22952.	8.0	135
5	Enhanced Biocompatibility of PLGA Nanofibers with Gelatin/Nano-Hydroxyapatite Bone Biomimetics Incorporation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9402-9410.	8.0	116
6	Photothermal-Activatable Fe ₃ O ₄ Superparticle Nanodrug Carriers with PD-L1 Immune Checkpoint Blockade for Anti-metastatic Cancer Immunotherapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20342-20355.	8.0	112
7	Cu ²⁺ -Loaded Polydopamine Nanoparticles for Magnetic Resonance Imaging-Guided pH- and Near-Infrared-Light-Stimulated Thermochemotherapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19706-19716.	8.0	103
8	Hydroquinone-Assisted Synthesis of Branched Au@Ag Nanoparticles with Polydopamine Coating as Highly Efficient Photothermal Agents. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11613-11623.	8.0	95
9	Growth Factor Free Multicomponent Nanocomposite Hydrogels That Stimulate Bone Formation. <i>Advanced Functional Materials</i> , 2020, 30, 1906205.	14.9	65
10	Cupreous Complex-Loaded Chitosan Nanoparticles for Photothermal Therapy and Chemotherapy of Oral Epithelial Carcinoma. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20801-20812.	8.0	58
11	Cu(II) doped polyaniline nanoshuttles for multimodal tumor diagnosis and therapy. <i>Biomaterials</i> , 2016, 104, 213-222.	11.4	48
12	Osteogenic potential of Zn ²⁺ -passivated carbon dots for bone regeneration <i>in vivo</i> . <i>Biomaterials Science</i> , 2019, 7, 5414-5423.	5.4	46
13	Cu(II)-Doped Polydopamine-Coated Gold Nanorods for Tumor Theranostics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44293-44306.	8.0	45
14	Ascorbic Acid-PEI Carbon Dots with Osteogenic Effects as miR-2861 Carriers to Effectively Enhance Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50287-50302.	8.0	40
15	Small molecules modified biomimetic gelatin/hydroxyapatite nanofibers constructing an ideal osteogenic microenvironment with significantly enhanced cranial bone formation. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 7167-7181.	6.7	37
16	Surfactant-Free Preparation of Au@Resveratrol Hollow Nanoparticles with Photothermal Performance and Antioxidant Activity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3376-3387.	8.0	35
17	Deletion of BMP receptor type IB decreased bone mass in association with compromised osteoblastic differentiation of bone marrow mesenchymal progenitors. <i>Scientific Reports</i> , 2016, 6, 24256.	3.3	32
18	Metformin Carbon Dots for Promoting Periodontal Bone Regeneration via Activation of ERK/AMPK Pathway. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100196.	7.6	32

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19	Targeting mitochondria with Au@Ag@Polydopamine nanoparticles for papillary thyroid cancer therapy. <i>Biomaterials Science</i> , 2019, 7, 1052-1063.	5.4	31
20	Bone morphogenetic protein signaling through ACVR1 and BMPR1A negatively regulates bone mass along with alterations in bone composition. <i>Journal of Structural Biology</i> , 2018, 201, 237-246.	2.8	24
21	Osteopromotive carbon dots promote bone regeneration through the PERK-eIF2 α -ATF4 pathway. <i>Biomaterials Science</i> , 2020, 8, 2840-2852.	5.4	22
22	Bone mesenchymal stem cells are recruited via CXCL8/CXCR2 and promote EMT through TGF β 2 signal pathways in oral squamous carcinoma. <i>Cell Proliferation</i> , 2020, 53, e12859.	5.3	21
23	Injectable thermosensitive chitosan/gelatin-based hydrogel carried erythropoietin to effectively enhance maxillary sinus floor augmentation in vivo. <i>Dental Materials</i> , 2020, 36, e229-e240.	3.5	20
24	Efficiently engineered cell sheet using a complex of polyethylenimine–alginate nanocomposites plus bone morphogenetic protein 2 gene to promote new bone formation. <i>International Journal of Nanomedicine</i> , 2014, 9, 2179.	6.7	19
25	Carbon Dots Induce Epithelial&dashrightarrow;Mesenchymal Transition for Promoting Cutaneous Wound Healing via Activation of TGF β 2/p38/Snail Pathway. <i>Advanced Functional Materials</i> , 2020, 30, 2004886.	14.9	19
26	Modification of Metal-Organic Framework Nanoparticles Using Dental Pulp Mesenchymal Stem Cell Membranes to Target Oral Squamous Cell Carcinoma. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 650-660.	9.4	19
27	Bone formation promoted by bone morphogenetic protein-2 plasmid-loaded porous silica nanoparticles with the involvement of autophagy. <i>Nanoscale</i> , 2019, 11, 21953-21963.	5.6	15
28	Construction of hollow polydopamine nanoparticle based drug sustainable release system and its application in bone regeneration. <i>International Journal of Oral Science</i> , 2021, 13, 27.	8.6	15
29	Distinctive role of ACVR1 in dentin formation: requirement for dentin thickness in molars and prevention of osteodentin formation in incisors of mice. <i>Journal of Molecular Histology</i> , 2019, 50, 43-61.	2.2	13
30	Potential of Mesenchymal Stem Cells by Adenovirus-Mediated Erythropoietin Gene Therapy Approaches for Bone Defect. <i>Cell Biochemistry and Biophysics</i> , 2014, 70, 1199-1204.	1.8	12
31	<i>Acvr1</i> deletion in osteoblasts impaired mandibular bone mass through compromised osteoblast differentiation and enhanced sRANKL-induced osteoclastogenesis. <i>Journal of Cellular Physiology</i> , 2021, 236, 4580-4591.	4.1	5
32	Electrostatic attraction driven and shuttle-like morphology assisted enhancement for tumor uptake. <i>RSC Advances</i> , 2017, 7, 56621-56628.	3.6	4
33	ACVR1 is essential for periodontium development and promotes alveolar bone formation. <i>Archives of Oral Biology</i> , 2018, 95, 108-117.	1.8	4
34	Tumor Theranostics of Transition Metal Ions Loaded Polyaminopyrrole Nanoparticles. <i>Nanotheranostics</i> , 2018, 2, 211-221.	5.2	2