

# Hongchen Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

2,090  
citations

279798

23  
h-index

233421

45  
g-index

49  
all docs

49  
docs citations

49  
times ranked

3343  
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Step Hydrothermal Synthesis of Nitrogen-Doped Conjugated Carbonized Polymer Dots with 31% Efficient Red Emission for In Vivo Imaging. <i>Small</i> , 2018, 14, e1703919.	10.0	317
2	An injectable and thermosensitive hydrogel: Promoting periodontal regeneration by controlled-release of aspirin and erythropoietin. <i>Acta Biomaterialia</i> , 2019, 86, 235-246.	8.3	170
3	Aspirin-Based Carbon Dots, a Good Biocompatibility of Material Applied for Bioimaging and Anti-Inflammation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32706-32716.	8.0	140
4	Fe <sub>3</sub> O <sub>4</sub> @polydopamine Composite Theranostic Superparticles Employing Preassembled Fe <sub>3</sub> O <sub>4</sub> Nanoparticles as the Core. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 22942-22952.	8.0	135
5	Injectable gelatin derivative hydrogels with sustained vascular endothelial growth factor release for induced angiogenesis. <i>Acta Biomaterialia</i> , 2015, 13, 88-100.	8.3	115
6	Photothermal-Activatable Fe <sub>3</sub> O <sub>4</sub> Superparticle Nanodrug Carriers with PD-L1 Immune Checkpoint Blockade for Anti-metastatic Cancer Immunotherapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20342-20355.	8.0	112
7	Cu <sup>2+</sup> -Loaded Polydopamine Nanoparticles for Magnetic Resonance Imaging-Guided pH- and Near-Infrared-Light-Stimulated Thermochemotherapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 19706-19716.	8.0	103
8	Pulp regeneration in a full-length human tooth root using a hierarchical nanofibrous microsphere system. <i>Acta Biomaterialia</i> , 2016, 35, 57-67.	8.3	75
9	In vitro and in vivo effects of rat kidney vascular endothelial cells on osteogenesis of rat bone marrow mesenchymal stem cells growing on polylactide-glycolic acid (PLGA) scaffolds. <i>BioMedical Engineering OnLine</i> , 2007, 6, 41.	2.7	70
10	Magnesium Oxide-Assisted Dual-Cross-Linking Bio-Multifunctional Hydrogels for Wound Repair during Full-Thickness Skin Injuries. <i>Advanced Functional Materials</i> , 2021, 31, 2105718.	14.9	60
11	Cupreous Complex-Loaded Chitosan Nanoparticles for Photothermal Therapy and Chemotherapy of Oral Epithelial Carcinoma. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 20801-20812.	8.0	58
12	Hierarchical Nanofibrous Microspheres with Controlled Growth Factor Delivery for Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2015, 4, 2699-2708.	7.6	57
13	Codelivery of doxorubicin and MDR1-siRNA by mesoporous silica nanoparticles-polymerpolyethylenimine to improve oral squamous carcinoma treatment. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 187-198.	6.7	49
14	Cu(II) doped polyaniline nanoshuttles for multimodal tumor diagnosis and therapy. <i>Biomaterials</i> , 2016, 104, 213-222.	11.4	48
15	Inhibition of autophagy by 3-MA enhances IL-24-induced apoptosis in human oral squamous cell carcinoma cells. <i>Journal of Experimental and Clinical Cancer Research</i> , 2015, 34, 97.	8.6	44
16	Ascorbic Acid-PEI Carbon Dots with Osteogenic Effects as miR-2861 Carriers to Effectively Enhance Bone Regeneration. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50287-50302.	8.0	40
17	Chelation competition induced polymerization (CCIP): construction of integrated hollow polydopamine nanocontainers with tailorability. <i>Chemical Communications</i> , 2016, 52, 10155-10158.	4.1	36
18	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

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19	Regulation of FN1 degradation by the p62/SQSTM1-dependent autophagy-lysosome pathway in HNSCC. <i>International Journal of Oral Science</i> , 2020, 12, 34.	8.6	32
20	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
21	Effects of human vascular endothelial growth factor on reparative dentin formation. <i>Molecular Medicine Reports</i> , 2016, 13, 705-712.	2.4	30
22	BMP Signaling Mediated by BMPR1A in Osteoclasts Negatively Regulates Osteoblast Mineralization Through Suppression of Cx43. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 605-614.	2.6	27
23	Chelation Competition Induced Polymerization (CCIP): A Binding Energy Based Strategy for Nonspherical Polymer Nanocontainers™ Fabrication. <i>Chemistry of Materials</i> , 2017, 29, 6536-6543.	6.7	25
24	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
25	Synthesis of carbon dots with strong luminescence in both dispersed and aggregated states by tailoring sulfur doping. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 54-64.	9.4	24
26	Compressive force regulates ephrinB2 and EphB4 in osteoblasts and osteoclasts contributing to alveolar bone resorption during experimental tooth movement. <i>Korean Journal of Orthodontics</i> , 2014, 44, 320.	2.3	21
27	Bone mesenchymal stem cells are recruited via CXCL8/CXCR2 and promote EMT through TGF $\beta$ 2 signal pathways in oral squamous carcinoma. <i>Cell Proliferation</i> , 2020, 53, e12859.	5.3	21
28	Efficiently engineered cell sheet using a complex of polyethylenimine&ndash;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
29	Carbon Dots Induce Epithelial&dashrightarrow;Mesenchymal Transition for Promoting Cutaneous Wound Healing via Activation of TGF $\beta$ 2/p38/Snail Pathway. <i>Advanced Functional Materials</i> , 2020, 30, 2004886.	14.9	19
30	Effective delivery of bone morphogenetic protein 2 gene using chitosan&dashrightarrow;polyethylenimine nanoparticle to promote bone formation. <i>RSC Advances</i> , 2016, 6, 34081-34089.	3.6	18
31	&lt;p&gt;Disulfiram inhibits epithelial&dashrightarrow;mesenchymal transition through TGF&beta;&dashrightarrow;ERK&dashrightarrow;Snail pathway independently of Smad4 to decrease oral squamous cell carcinoma metastasis&lt;/p&gt;. <i>Cancer Management and Research</i> , 2019, Volume 11, 3887-3898.	1.9	16
32	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
33	Compound mutations in <i>Bmpr1a</i> and <i>Tak1</i> synergize facial deformities via increased cell death. <i>Genesis</i> , 2018, 56, e23093.	1.6	14
34	Ultrafast Spreading Effect Induced Rapid Cell Trapping into Porous Scaffold with Superhydrophilic Surface. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 17545-17551.	8.0	13
35	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
36	Characteristics of three sizes of silica nanoparticles in the osteoblastic cell line, MC3T3-E1. <i>RSC Advances</i> , 2014, 4, 46481-46487.	3.6	11

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37	Rapamycin promotes osteogenesis under inflammatory conditions. <i>Molecular Medicine Reports</i> , 2017, 16, 8923-8929.	2.4	10
38	A case report on desmoplastic ameloblastoma of anterior mandible. <i>BMC Research Notes</i> , 2016, 9, 171.	1.4	8
39	The effect of synthetic $\beta$ -tricalcium phosphate on osteogenic differentiation of rat bone mesenchymal stem cells. <i>American Journal of Translational Research (discontinued)</i> , 2015, 7, 1588-601.	0.0	8
40	Sustained release poly (lactic-co-glycolic acid) microspheres of bone morphogenetic protein 2 plasmid/calcium phosphate to promote in vitro bone formation and in vivo ectopic osteogenesis. <i>American Journal of Translational Research (discontinued)</i> , 2015, 7, 2561-72.	0.0	8
41	Unraveling an Innate Mechanism of Pathological Mineralizationâ€Regulated Inflammation by a Nanobiomimetic System. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101586.	7.6	6
42	Musselâ€Inspired Biocoating for Improving the Adhesion of Dental Pulp Stem Cells in Dental Pulp Regeneration. <i>Macromolecular Rapid Communications</i> , 2020, 41, 2000102.	3.9	5
43	<i>Acvr1</i> deletion in osteoblasts impaired mandibular bone mass through compromised osteoblast differentiation and enhanced sRANKLâ€induced osteoclastogenesis. <i>Journal of Cellular Physiology</i> , 2021, 236, 4580-4591.	4.1	5
44	ACVR1 is essential for periodontium development and promotes alveolar bone formation. <i>Archives of Oral Biology</i> , 2018, 95, 108-117.	1.8	4
45	New Strategies for the Prevention and Treatment of Bone Loss - From Mechanical Loading Point of View. <i>Current Pharmaceutical Design</i> , 2018, 23, 6264-6271.	1.9	1
46	Brucine restores sodium nitroprusside-induced chondrocyte dysfunction by suppressing the GSK-3 $\beta$ / $\beta$ -catenin pathway. <i>Chemico-Biological Interactions</i> , 2022, , 109980.	4.0	0