

# Jianbin Xu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7422578/publications.pdf>

Version: 2024-02-01

24  
papers

1,762  
citations

430442

18  
h-index

610482

24  
g-index

27  
all docs

27  
docs citations

27  
times ranked

2908  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy. <i>Science Robotics</i> , 2017, 2, .	9.9	594
2	Injectable stem cell-laden supramolecular hydrogels enhance in situ osteochondral regeneration via the sustained co-delivery of hydrophilic and hydrophobic chondrogenic molecules. <i>Biomaterials</i> , 2019, 210, 51-61.	5.7	179
3	Self-Assembled Injectable Nanocomposite Hydrogels Stabilized by Bisphosphonate-Magnesium (Mg <sup>2+</sup> ) Coordination Regulates the Differentiation of Encapsulated Stem Cells via Dual Crosslinking. <i>Advanced Functional Materials</i> , 2017, 27, 1701642.	7.8	110
4	Robust Biopolymeric Supramolecular "Host" Guest Macromer-Hydrogels Reinforced by <i>in Situ</i> Formed Multivalent Nanoclusters for Cartilage Regeneration. <i>Macromolecules</i> , 2016, 49, 866-875.	2.2	102
5	Self-assembled N-cadherin mimetic peptide hydrogels promote the chondrogenesis of mesenchymal stem cells through inhibition of canonical Wnt/ $\beta$ -catenin signaling. <i>Biomaterials</i> , 2017, 145, 33-43.	5.7	100
6	Circular RNA circRHOBTB3 represses metastasis by regulating the HuR-mediated mRNA stability of PTBP1 in colorectal cancer. <i>Theranostics</i> , 2021, 11, 7507-7526.	4.6	87
7	Near-infrared light-triggered release of small molecules for controlled differentiation and long-term tracking of stem cells <i>in vivo</i> using upconversion nanoparticles. <i>Biomaterials</i> , 2016, 110, 1-10.	5.7	77
8	Synthetic presentation of noncanonical Wnt5a motif promotes mechanosensing-dependent differentiation of stem cells and regeneration. <i>Science Advances</i> , 2019, 5, eaaw3896.	4.7	64
9	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , 2019, 10, 2705.	5.8	60
10	Molecular cargo delivery using multicellular magnetic microswimmers. <i>Applied Materials Today</i> , 2019, 15, 242-251.	2.3	52
11	Multifunctional Quantum Dot Nanoparticles for Effective Differentiation and Long-Term Tracking of Human Mesenchymal Stem Cells <i>In Vitro</i> and <i>In Vivo</i> . <i>Advanced Healthcare Materials</i> , 2016, 5, 1049-1057.	3.9	50
12	Photocontrolled siRNA Delivery and Biomarker-Triggered Luminogens of Aggregation-Induced Emission by Up-Conversion NaYF <sub>4</sub> :Yb <sub>3+</sub> Tm <sub>3+</sub> @SiO <sub>2</sub> Nanoparticles for Inducing and Monitoring Stem-Cell Differentiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22074-22084.	4.0	43
13	Nanocarrier-Mediated Codelivery of Small Molecular Drugs and siRNA to Enhance Chondrogenic Differentiation and Suppress Hypertrophy of Human Mesenchymal Stem Cells. <i>Advanced Functional Materials</i> , 2016, 26, 2463-2472.	7.8	42
14	Efficient catechol functionalization of biopolymeric hydrogels for effective multiscale bioadhesion. <i>Materials Science and Engineering C</i> , 2019, 103, 109835.	3.8	34
15	Bioactive Nanocomposite Poly (Ethylene Glycol) Hydrogels Crosslinked by Multifunctional Layered Double Hydroxides Nanocrosslinkers. <i>Macromolecular Bioscience</i> , 2016, 16, 1019-1026.	2.1	28
16	Citrate-based fluorophore-modified cellulose nanocrystals as a biocompatible fluorescent probe for detecting ferric ions and intracellular imaging. <i>Carbohydrate Polymers</i> , 2019, 224, 115198.	5.1	28
17	Acid-Cleavable Unimolecular Micelles from Amphiphilic Star Copolymers for Triggered Release of Anticancer Drugs. <i>Macromolecular Bioscience</i> , 2017, 17, 1600258.	2.1	27
18	Co-delivery of 5-fluorouracil and miRNA-34a mimics by host-guest self-assembly nanocarriers for efficacious targeted therapy in colorectal cancer patient-derived tumor xenografts. <i>Theranostics</i> , 2021, 11, 2475-2489.	4.6	22

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19	Multiscale reconstruction of a synthetic biomimetic micro-niche for enhancing and monitoring the differentiation of stem cells. <i>Biomaterials</i> , 2018, 173, 87-99.	5.7	14
20	Unmasking carcinoma-associated fibroblasts: Key transformation player within the tumor microenvironment. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2020, 1874, 188443.	3.3	13
21	Detection of Matrix Metalloproteinase 13 for Monitoring Stem Cell Differentiation and Early Diagnosis of Osteoarthritis by Fluorescent Light-Up Probes with Aggregation-Induced Emission Characteristics. <i>Advanced Biology</i> , 2018, 2, 1800010.	3.0	12
22	Exosomal non-coding RNAs have a significant effect on tumor metastasis. <i>Molecular Therapy - Nucleic Acids</i> , 2022, 29, 16-35.	2.3	12
23	Asiatic Acid Attenuates Bone Loss by Regulating Osteoclastic Differentiation. <i>Calcified Tissue International</i> , 2019, 105, 531-545.	1.5	8
24	LYPD8 regulates the proliferation and migration of colorectal cancer cells through inhibiting the secretion of IL-6 and TNF- $\alpha$ . <i>Oncology Reports</i> , 2019, 41, 2389-2395.	1.2	4