Yun Xiao

List of Publications by Year
in descending order

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Version: 2024-02-01

22 papers	1,813 citations	471371 17 h-index	752573 20 g-index
22 all docs	22 docs citations	22 times ranked	3243 citing authors

#	Article	IF	Citations
1	Biowire: a platform for maturation of human pluripotent stem cellâ€“derived cardiomyocytes. Nature Methods, 2013, 10, 781-787.	9.0	784
2	In Situ Mechanical Characterization of the Cell Nucleus by Atomic Force Microscopy. ACS Nano, 2014, 8, 3821-3828.	7.3	176
3	Microfabricated perfusable cardiac biowire: a platform that mimics native cardiac bundle. Lab on A Chip, 2014, 14, 869-882.	3.1	121
4	Diabetic wound regeneration using peptide-modified hydrogels to target re-epithelialization. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5792-E5801.	3.3	108
5	Viscoelasticity in natural tissues and engineered scaffolds for tissue reconstruction. Acta Biomaterialia, 2019, 97, 74-92.	4.1	88
6	Biomaterial based cardiac tissue engineering and its applications. Biomedical Materials (Bristol), 2015, 10, 034004.	1.7	79
7	Cellulose Nanocrystal Reinforced Collagen-Based Nanocomposite Hydrogel with Self-Healing and Stress-Relaxation Properties for Cell Delivery. Biomacromolecules, 2020, 21, 2400-2408.	2.6	73
8	Micro- and nanotechnology in cardiovascular tissue engineering. Nanotechnology, 2011, 22, 494003.	1.3	55
9	Bioreactor for modulation of cardiac microtissue phenotype by combined static stretch and electrical stimulation. Biofabrication, 2014, 6, 024113.	3.7	53
10	Antibacterial and biodegradable tissue nano-adhesives for rapid wound closure. International Journal of Nanomedicine, 2018, Volume 13, 5849-5863.	3.3	43
11	Aged Human Cells Rejuvenated by Cytokine Enhancement of Biomaterials for Surgical Ventricular Restoration. Journal of the American College of Cardiology, 2012, 60, 2237-2249.	1.2	41
12	Topological and electrical control of cardiac differentiation and assembly. Stem Cell Research and Therapy, 2013, 4, 14.	2.4	36
13	Structural and electrochemical studies of tungsten carbide/carbon composites for hydrogen evolution. International Journal of Hydrogen Energy, 2017, 42, 29781-29790.	3.8	31
14	Biochemical and Biophysical Cues in Matrix Design for Chronic and Diabetic Wound Treatment. Tissue Engineering - Part B: Reviews, 2017, 23, 9-26.	2.5	30
15	Modifications of collagen-based biomaterials with immobilized growth factors or peptides. Methods, 2015, 84, 44-52.	1.9	26
16	Biofabrication of nerve fibers with mimetic myelin sheath-like structure and aligned fibrous niche. Biofabrication, 2020, 12, 035013.	3.7	22
17	Role of N-Cadherin in a Niche-Mimicking Microenvironment for Chondrogenesis of Mesenchymal Stem Cells In Vitro. ACS Biomaterials Science and Engineering, 2020, 6, 3491-3501.	2.6	18
18	Bioactive scaffolds based on collagen filaments with tunable physico-chemical and biological features. Soft Matter, 2020, 16, 4540-4548.	1.2	10

#	Article	IF	Citations
19	A sonication-induced silk-collagen hydrogel for functional cartilage regeneration. Journal of Materials Chemistry B, 2022, 10, 5045-5057.	2.9	9
20	Progress in Preparation of Silk Fibroin Microspheres for Biomedical Applications. Pharmaceutical Nanotechnology, 2020, 8, 358-371.	0.6	8
21	Microfluidic Cell Culture Techniques. , 2013, , 303-321.		1
22	Cardiac tissue regeneration in bioreactors. , 2014, , 640-668.		1