

Hao Chang

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,998
citations

293460

24
h-index

425179

34
g-index

37
all docs

37
docs citations

37
times ranked

3219
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryomicroneedles for transdermal cell delivery. <i>Nature Biomedical Engineering</i> , 2021, 5, 1008-1018.	11.6	97
2	Upconversion Nanoparticle Powered Microneedle Patches for Transdermal Delivery of siRNA. <i>Advanced Healthcare Materials</i> , 2020, 9, e1900635.	3.9	57
3	Surface Enhanced Raman Spectroscopy Based Biosensor with a Microneedle Array for Minimally Invasive <i><i>In Vivo</i></i> Glucose Measurements. <i>ACS Sensors</i> , 2020, 5, 1777-1785.	4.0	69
4	Temporal pressure enhanced topical drug delivery through micropore formation. <i>Science Advances</i> , 2020, 6, eaaz6919.	4.7	21
5	A self- ϵ adhesive microneedle patch with drug loading capability through swelling effect. <i>Bioengineering and Translational Medicine</i> , 2020, 5, e10157.	3.9	26
6	Advances in the Formulations of Microneedles for Manifold Biomedical Applications. <i>Advanced Materials Technologies</i> , 2020, 5, 1900552.	3.0	47
7	Osmosis- ϵ Powered Hydrogel Microneedles for Microliters of Skin Interstitial Fluid Extraction within Minutes. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901683.	3.9	111
8	Layer-by-layer assembly as a robust method to construct extracellular matrix mimic surfaces to modulate cell behavior. <i>Progress in Polymer Science</i> , 2019, 92, 1-34.	11.8	54
9	In Situ Generation of Zinc Oxide Nanobushes on Microneedles as Antibacterial Coating. <i>SLAS Technology</i> , 2019, 24, 181-187.	1.0	19
10	Improved Antithrombotic Function of Oriented Endothelial Cell Monolayer on Microgrooves. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1976-1985.	2.6	16
11	Self-implantable double-layered micro-drug-reservoirs for efficient and controlled ocular drug delivery. <i>Nature Communications</i> , 2018, 9, 4433.	5.8	209
12	Oligonucleotide Molecular Sprinkler for Intracellular Detection and Spontaneous Regulation of mRNA for Theranostics of Scar Fibroblasts. <i>Small</i> , 2018, 14, e1802546.	5.2	8
13	Detection of Bacteria in Water with β -Galactosidase-Coated Magnetic Nanoparticles. <i>SLAS Technology</i> , 2018, 23, 624-630.	1.0	3
14	Mechanical Adaptability of the MMP- ϵ Responsive Film Improves the Functionality of Endothelial Cell Monolayer. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601410.	3.9	29
15	Surface-mediated transfection of a pDNA vector encoding short hairpin RNA to downregulate TGF- β 1 expression for the prevention of in-stent restenosis. <i>Biomaterials</i> , 2017, 116, 95-105.	5.7	40
16	Iron Oxide Nanoparticle-Powered Micro-Optical Coherence Tomography for in Situ Imaging the Penetration and Swelling of Polymeric Microneedles in the Skin. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20340-20347.	4.0	24
17	Nanostructured Multilayer Films Assembled from Poly(dopamine)- ϵ Coated Carbon Nanotubes for Controlling Cell Behavior. <i>ChemNanoMat</i> , 2017, 3, 319-327.	1.5	4
18	Endothelial Cells: Mechanical Adaptability of the MMP- ϵ Responsive Film Improves the Functionality of Endothelial Cell Monolayer (<i>Adv. Healthcare Mater.</i> 14/2017). <i>Advanced Healthcare Materials</i> , 2017, 6, .	3.9	0

