

Hao Chang

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,998
citations

257450

24
h-index

377865

34
g-index

37
all docs

37
docs citations

37
times ranked

2847
citing authors

#	ARTICLE	IF	CITATIONS
1	A Swellable Microneedle Patch to Rapidly Extract Skin Interstitial Fluid for Timely Metabolic Analysis. <i>Advanced Materials</i> , 2017, 29, 1702243.	21.0	303
2	Self-implantable double-layered micro-drug-reservoirs for efficient and controlled ocular drug delivery. <i>Nature Communications</i> , 2018, 9, 4433.	12.8	209
3	Electropolymerization of dopamine for surface modification of complex-shaped cardiovascular stents. <i>Biomaterials</i> , 2014, 35, 7679-7689.	11.4	183
4	Construction of Degradable Multilayer Films for Enhanced Antibacterial Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4136-4143.	8.0	117
5	Osmosis-Powered Hydrogel Microneedles for Microliters of Skin Interstitial Fluid Extraction within Minutes. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901683.	7.6	111
6	Polydopamine Nanocoating for Effective Photothermal Killing of Bacteria and Fungus upon Near-Infrared Irradiation. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600767.	3.7	99
7	Cryomicroneedles for transdermal cell delivery. <i>Nature Biomedical Engineering</i> , 2021, 5, 1008-1018.	22.5	97
8	Surface Enhanced Raman Spectroscopy Based Biosensor with a Microneedle Array for Minimally Invasive <i>In Vivo</i> Glucose Measurements. <i>ACS Sensors</i> , 2020, 5, 1777-1785.	7.8	69
9	Direct Adhesion of Endothelial Cells to Bioinspired Poly(dopamine) Coating Through Endogenous Fibronectin and Integrin $\alpha_5\beta_1$. <i>Macromolecular Bioscience</i> , 2013, 13, 483-493.	4.1	67
10	Effect of Polyelectrolyte Film Stiffness on Endothelial Cells During Endothelial-to-Mesenchymal Transition. <i>Biomacromolecules</i> , 2015, 16, 3584-3593.	5.4	57
11	Upconversion Nanoparticle Powered Microneedle Patches for Transdermal Delivery of siRNA. <i>Advanced Healthcare Materials</i> , 2020, 9, e1900635.	7.6	57
12	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.	24.7	54
13	Facile fabrication of robust superhydrophobic multilayered film based on bioinspired poly(dopamine)-modified carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2936.	2.8	51
14	Surface-mediated functional gene delivery: An effective strategy for enhancing competitiveness of endothelial cells over smooth muscle cells. <i>Biomaterials</i> , 2013, 34, 3345-3354.	11.4	47
15	Advances in the Formulations of Microneedles for Manifold Biomedical Applications. <i>Advanced Materials Technologies</i> , 2020, 5, 1900552.	5.8	47
16	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.	11.4	40
17	Improved Endothelial Function of Endothelial Cell Monolayer on the Soft Polyelectrolyte Multilayer Film with Matrix-Bound Vascular Endothelial Growth Factor. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14357-14366.	8.0	38
18	Substrate Stiffness Combined with Hepatocyte Growth Factor Modulates Endothelial Cell Behavior. <i>Biomacromolecules</i> , 2016, 17, 2767-2776.	5.4	36

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19	Surface modulation of complex stiffness via layer-by-layer assembly as a facile strategy for selective cell adhesion. <i>Biomaterials Science</i> , 2015, 3, 352-360.	5.4	34
20	Dynamic stiffness of polyelectrolyte multilayer films based on disulfide bonds for in situ control of cell adhesion. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7546-7553.	5.8	31
21	Mechanical Adaptability of the MMP-Responsive Film Improves the Functionality of Endothelial Cell Monolayer. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601410.	7.6	29
22	Stiffness of polyelectrolyte multilayer film influences endothelial function of endothelial cell monolayer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 149, 379-387.	5.0	26
23	A self-adhesive microneedle patch with drug loading capability through swelling effect. <i>Bioengineering and Translational Medicine</i> , 2020, 5, e10157.	7.1	26
24	Dynamic spongy films to immobilize hydrophobic antimicrobial peptides for self-healing bactericidal coating. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6358-6365.	5.8	24
25	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.	8.0	24
26	Temporal pressure enhanced topical drug delivery through micropore formation. <i>Science Advances</i> , 2020, 6, eaaz6919.	10.3	21
27	Cucurbit[8]uril Supramolecular Assembly for Positively Charged Ultrathin Films as Nanocontainers. <i>Langmuir</i> , 2013, 29, 14101-14107.	3.5	20
28	In Situ Generation of Zinc Oxide Nanobushes on Microneedles as Antibacterial Coating. <i>SLAS Technology</i> , 2019, 24, 181-187.	1.9	19
29	The (PrS/HGF- α -pDNA) multilayer films for gene-eluting stent coating: Gene-protecting, anticoagulation, antibacterial properties, and <i>in vivo</i> antirestenosis evaluation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 430-439.	3.4	16
30	Improved Antithrombotic Function of Oriented Endothelial Cell Monolayer on Microgrooves. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1976-1985.	5.2	16
31	Substrate-mediated delivery of gene complex nanoparticles via polydopamine coating for enhancing competitiveness of endothelial cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 147, 172-179.	5.0	15
32	Oligonucleotide Molecular Sprinkler for Intracellular Detection and Spontaneous Regulation of mRNA for Theranostics of Scar Fibroblasts. <i>Small</i> , 2018, 14, e1802546.	10.0	8
33	Nanostructured Multilayer Films Assembled from Poly(dopamine)-Coated Carbon Nanotubes for Controlling Cell Behavior. <i>ChemNanoMat</i> , 2017, 3, 319-327.	2.8	4
34	Detection of Bacteria in Water with β -Galactosidase-Coated Magnetic Nanoparticles. <i>SLAS Technology</i> , 2018, 23, 624-630.	1.9	3
35	Endothelial Cells: Mechanical Adaptability of the MMP-Responsive Film Improves the Functionality of Endothelial Cell Monolayer (<i>Adv. Healthcare Mater.</i> 14/2017). <i>Advanced Healthcare Materials</i> , 2017, 6, .	7.6	0
36	CONSTRUCTION OF CYCLODEXTRIN-MODIFIED POLYPLEXES <i>via</i> HOST-GUEST ASSEMBLY. <i>Acta Polymerica Sinica</i> , 2013, 012, 1429-1433.	0.0	0