Junmin Lee

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4509226/publications.pdf

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60	2,802	159358	182168
papers	citations	30 h-index	51 g-index

68	68	68	4257
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Directing stem cell fate on hydrogel substrates by controlling cell geometry, matrix mechanics and adhesion ligand composition. Biomaterials, 2013, 34, 8140-8148.	5.7	238
2	Interfacial geometry dictates cancer cell tumorigenicity. Nature Materials, 2016, 15, 856-862.	13.3	156
3	Rewiring mesenchymal stem cell lineage specification by switching the biophysical microenvironment. Scientific Reports, 2014, 4, 5188.	1.6	120
4	Highly Mobile Palladium Thin Films on an Elastomeric Substrate: Nanogapâ€Based Hydrogen Gas Sensors. Angewandte Chemie - International Edition, 2011, 50, 5301-5305.	7.2	116
5	Gelatin Methacryloylâ€Based Tactile Sensors for Medical Wearables. Advanced Functional Materials, 2020, 30, 2003601.	7.8	112
6	Organâ€onâ€aâ€Chip for Cancer and Immune Organs Modeling. Advanced Healthcare Materials, 2019, 8, e1801363.	3.9	111
7	Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid. Small, 2020, 16, e1905910.	5.2	104
8	Nanoparticle-Based Hybrid Scaffolds for Deciphering the Role of Multimodal Cues in Cardiac Tissue Engineering. ACS Nano, 2019, 13, 12525-12539.	7.3	101
9	Matrix Composition and Mechanics Direct Proangiogenic Signaling from Mesenchymal Stem Cells. Tissue Engineering - Part A, 2014, 20, 2737-2745.	1.6	97
10	Biodegradable Î²â€Cyclodextrin Conjugated Gelatin Methacryloyl Microneedle for Delivery of Waterâ€Insoluble Drug. Advanced Healthcare Materials, 2020, 9, e2000527.	3.9	91
11	A Patch of Detachable Hybrid Microneedle Depot for Localized Delivery of Mesenchymal Stem Cells in Regeneration Therapy. Advanced Functional Materials, 2020, 30, 2000086.	7.8	91
12	Non-transdermal microneedles for advanced drug delivery. Advanced Drug Delivery Reviews, 2020, 165-166, 41-59.	6.6	80
13	Controlling cell geometry on substrates of variable stiffness can tune the degree of osteogenesis in human mesenchymal stem cells. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 38, 209-218.	1.5	74
14	Temporal Modulation of Stem Cell Activity Using Magnetoactive Hydrogels. Advanced Healthcare Materials, 2016, 5, 2536-2544.	3.9	73
15	Electrochemical cytosensors for detection of breast cancer cells. Biosensors and Bioelectronics, 2020, 151, 111984.	5.3	69
16	Geometric guidance of integrin mediated traction stress during stem cell differentiation. Biomaterials, 2015, 69, 174-183.	5.7	65
17	Design Rules for Nanogapâ€Based Hydrogen Gas Sensors. ChemPhysChem, 2012, 13, 1395-1403.	1.0	58
18	A Heartâ€Breast Cancerâ€onâ€aâ€Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy. Small, 2021, 17, e2004258.	5.2	57

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19	Selenium and dopamine-crosslinked hyaluronic acid hydrogel for chemophotothermal cancer therapy. Journal of Controlled Release, 2020, 324, 750-764.	4.8	56
20	Hydrogelâ€Enabled Transferâ€Printing of Conducting Polymer Films for Soft Organic Bioelectronics. Advanced Functional Materials, 2020, 30, 1906016.	7.8	55
21	Cardiac Fibrotic Remodeling on a Chip with Dynamic Mechanical Stimulation. Advanced Healthcare Materials, 2019, 8, e1801146.	3.9	54
22	Biofabrication of endothelial cell, dermal fibroblast, and multilayered keratinocyte layers for skin tissue engineering. Biofabrication, 2021, 13, 035030.	3.7	54
23	Matrix directed adipogenesis and neurogenesis of mesenchymal stem cells derived from adipose tissue and bone marrow. Acta Biomaterialia, 2016, 42, 46-55.	4.1	52
24	A Human Liverâ€onâ€aâ€Chip Platform for Modeling Nonalcoholic Fatty Liver Disease. Advanced Biology, 2019, 3, e1900104.	3.0	50
25	Influence of Biophysical Parameters on Maintaining the Mesenchymal Stem Cell Phenotype. ACS Biomaterials Science and Engineering, 2015, 1, 218-226.	2.6	43
26	Combinatorial screening of biochemical and physical signals for phenotypic regulation of stem cellâ€“based cartilage tissue engineering. Science Advances, 2020, 6, eaaz5913.	4.7	42
27	Gas Sensing performance of composite materials using conducting polymer/single-walled carbon nanotubes. Macromolecular Research, 2012, 20, 143-146.	1.0	36
28	Serially pH-Modulated Hydrogels Based on Boronate Ester and Polydopamine Linkages for Local Cancer Therapy. ACS Applied Materials & Interfaces, 2021, 13, 2189-2203.	4.0	36
29	Mechanochemical functionalization of disulfide linked hydrogels. Materials Horizons, 2016, 3, 447-451.	6.4	33
30	Ferrous sulfate-directed dual-cross-linked hyaluronic acid hydrogels with long-term delivery of donepezil. International Journal of Pharmaceutics, 2020, 582, 119309.	2.6	33
31	Multi-layered cellulose nanocrystal system for CD44 receptor-positive tumor-targeted anticancer drug delivery. International Journal of Biological Macromolecules, 2020, 162, 798-809.	3.6	31
32	In Vitro Human Liver Model of Nonalcoholic Steatohepatitis by Coculturing Hepatocytes, Endothelial Cells, and Kupffer Cells. Advanced Healthcare Materials, 2019, 8, e1901379.	3.9	30
33	Cancerâ€onâ€aâ€Chip for Modeling Immune Checkpoint Inhibitor and Tumor Interactions. Small, 2021, 17, e2004282.	5.2	30
34	Polypseudorotaxane and polydopamine linkage-based hyaluronic acid hydrogel network with a single syringe injection for sustained drug delivery. Carbohydrate Polymers, 2021, 266, 118104.	5.1	29
35	Capturing extracellular matrix properties inÂvitro: Microengineering materials to decipher cell and tissue level processes. Experimental Biology and Medicine, 2016, 241, 930-938.	1.1	25
36	Melanoma topology reveals a stem-like phenotype that promotes angiogenesis. Science Advances, 2017, 3, e1701350.	4.7	25

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37	Mechanical Cues Regulating Proangiogenic Potential of Human Mesenchymal Stem Cells through YAPâ€Mediated Mechanosensing. Small, 2020, 16, e2001837.	5.2	25
38	Monopotassium phosphate-reinforced in situ forming injectable hyaluronic acid hydrogels for subcutaneous injection. International Journal of Biological Macromolecules, 2020, 163, 2134-2144.	3.6	24
39	Coâ€Electrospun Silk Fibroin and Gelatin Methacryloyl Sheet Seeded with Mesenchymal Stem Cells for Tendon Regeneration. Small, 2022, 18, e2107714.	5.2	23
40	<scp>C</scp>ell shape and the presentation of adhesion ligands guide smooth muscle myogenesis. Journal of Biomedical Materials Research - Part A, 2016, 104, 1212-1220.	2.1	20
41	Bioengineered Multicellular Liver Microtissues for Modeling Advanced Hepatic Fibrosis Driven Through Nonâ€Alcoholic Fatty Liver Disease. Small, 2021, 17, e2007425.	5.2	20
42	Geometric regulation of histone state directs melanoma reprogramming. Communications Biology, 2020, 3, 341.	2.0	19
43	A Microfabricated Sandwiching Assay for Nanoliter and Highâ€Throughput Biomarker Screening. Small, 2019, 15, e1900300.	5.2	18
44	Iron sulfate-reinforced hydrogel reactors with glucose deprivation, serial reactive oxygen species generation, ferroptosis induction, and photothermal ablation for cancer therapy. Chemical Engineering Journal, 2022, 438, 135584.	6.6	17
45	Submolecular Ligand Size and Spacing for Cell Adhesion. Advanced Materials, 2022, 34, e2110340.	11.1	13
46	Rhodamine Conjugated Gelatin Methacryloyl Nanoparticles for Stable Cell Imaging. ACS Applied Bio Materials, 2020, 3, 6908-6918.	2.3	12
47	Combinatorial Discovery of Defined Substrates That Promote a Stem Cell State in Malignant Melanoma. ACS Central Science, 2017, 3, 381-393.	5.3	11
48	Gradient and Dynamic Hydrogel Materials to Probe Dynamics in Cancer Stem Cell Phenotypes. ACS Applied Bio Materials, 2021, 4, 711-720.	2.3	9
49	Cytoskeletal Priming of Mesenchymal Stem Cells to a Medicinal Phenotype. Regenerative Engineering and Translational Medicine, 2017, 3, 5-14.	1.6	7
50	Wearable Tactile Sensors: Gelatin Methacryloylâ€Based Tactile Sensors for Medical Wearables (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	7.8	6
51	Engineering liver microtissues to study the fusion of HepG2 with mesenchymal stem cells and invasive potential of fused cells. Biofabrication, 2022, 14, 014104.	3.7	5
52	Microneedle Patches: Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid (Small 16/2020). Small, 2020, 16, 2070086.	5.2	4
53	Synthetic Biomaterials to Rival Nature's Complexityâ€”a Path Forward with Combinatorics, Highâ€Throughput Discovery, and Highâ€Content Analysis. Advanced Healthcare Materials, 2017, 6, 1700535.	3.9	3
54	Hall of Fame Article: Minimally Invasive and Regenerative Therapeutics (Adv. Mater. 1/2019). Advanced Materials, 2019, 31, 1970005.	11.1	2

#	Article	IF	Citations
55	Hydrogelâ€Enabled Transfer Printing: Hydrogelâ€Enabled Transferâ€Printing of Conducting Polymer Films for Soft Organic Bioelectronics (Adv. Funct. Mater. 6/2020). Advanced Functional Materials, 2020, 30, 2070038.	7.8	2
56	Highâ€Throughput Drug Screening: A Microfabricated Sandwiching Assay for Nanoliter and Highâ€Throughput Biomarker Screening (Small 15/2019). Small, 2019, 15, 1970078.	5.2	1
57	Titelbild: Highly Mobile Palladium Thin Films on an Elastomeric Substrate: Nanogap-Based Hydrogen Gas Sensors (Angew. Chem. 23/2011). Angewandte Chemie, 2011, 123, 5335-5335.	1.6	0
58	Cover Picture: Highly Mobile Palladium Thin Films on an Elastomeric Substrate: Nanogap-Based Hydrogen Gas Sensors (Angew. Chem. Int. Ed. 23/2011). Angewandte Chemie - International Edition, 2011, 50, 5227-5227.	7.2	0
59	Angiogenesis: Mechanical Cues Regulating Proangiogenic Potential of Human Mesenchymal Stem Cells through YAPâ€Mediated Mechanosensing (Small 25/2020). Small, 2020, 16, 2070142.	5.2	0
60	Organâ€onâ€aâ€Chip: A Heartâ€Breast Cancerâ€onâ€aâ€Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy (Small 15/2021). Small, 2021, 17, 2170070.	5.2	0