

Keekyoung Kim

List of Publications by Year in descending order

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45
papers

4,524
citations

257357

24
h-index

276775

41
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45
all docs

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docs citations

45
times ranked

6774
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent trends in gelatin methacryloyl nanocomposite hydrogels for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 708-724.	2.1	55
2	Technologies for Single-Cell Printing and Patterning. , 2022, , 375-395.		0
3	A kinetic model for predicting imperfections in the bioink photopolymerization process during visible-light stereolithography printing. <i>Additive Manufacturing</i> , 2022, , 102808.	1.7	5
4	Optimized 3D Bioprinting Technology Based on Machine Learning: A Review of Recent Trends and Advances. <i>Micromachines</i> , 2022, 13, 363.	1.4	23
5	Designing Gelatin Methacryloyl (GelMA)-Based Bioinks for Visible Light Stereolithographic 3D Biofabrication. <i>Macromolecular Bioscience</i> , 2021, 21, e2000317.	2.1	51
6	Polyether ether ketone surface modification with plasma and gelatin for enhancing cell attachment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 622-629.	1.6	19
7	High-throughput three-dimensional cellular platforms for screening biophysical microenvironmental signals. , 2021, , 125-152.		1
8	Increased sanitization potency of hydrogen peroxide with synergistic O ₃ and intense pulsed light for non-woven polypropylene. <i>RSC Advances</i> , 2021, 11, 23881-23891.	1.7	2
9	Development and in vitro evaluation of photocurable GelMA/PEGDA hybrid hydrogel for corneal stromal cells delivery. <i>Materials Today Communications</i> , 2021, 27, 102459.	0.9	9
10	Tunable metacrylated hyaluronic acid-based hybrid bioinks for stereolithography 3D bioprinting. <i>Biofabrication</i> , 2021, 13, 044109.	3.7	26
11	Biofabrication strategies for engineering heterogeneous artificial tissues. <i>Additive Manufacturing</i> , 2020, 36, 101459.	1.7	15
12	Stereolithography 3D Bioprinting Method for Fabrication of Human Corneal Stroma Equivalent. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1955-1970.	1.3	62
13	Antibacterial efficiency assessment of polymer-nanoparticle composites using a high-throughput microfluidic platform. <i>Materials Science and Engineering C</i> , 2020, 111, 110754.	3.8	13
14	Microfluidics-based fabrication of cell-laden microgels. <i>Biomicrofluidics</i> , 2020, 14, 021501.	1.2	40
15	High Throughput Screening of Cell Mechanical Response Using a Stretchable 3D Cellular Microarray Platform. <i>Small</i> , 2020, 16, e2000941.	5.2	16
16	Stereolithography 3D Bioprinting. <i>Methods in Molecular Biology</i> , 2020, 2140, 93-108.	0.4	61
17	Technologies for Single-Cell Printing and Patterning. , 2020, , 1-21.		0
18	Permeability and mechanical properties of gradient porous PDMS scaffolds fabricated by 3D-printed sacrificial templates designed with minimal surfaces. <i>Acta Biomaterialia</i> , 2019, 96, 149-160.	4.1	139

#	ARTICLE	IF	CITATIONS
19	Rapid and Inexpensive Fabrication of Multi-Depth Microfluidic Device using High-Resolution LCD Stereolithographic 3D Printing. <i>Journal of Manufacturing and Materials Processing</i> , 2019, 3, 26.	1.0	48
20	An integrated microfluidic flow-focusing platform for on-chip fabrication and filtration of cell-laden microgels. <i>Lab on A Chip</i> , 2019, 19, 1621-1632.	3.1	48
21	A Novel, Well-Resolved Direct Laser Bioprinting System for Rapid Cell Encapsulation and Microwell Fabrication. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701249.	3.9	42
22	Nanowire-Based Biosensors: From Growth to Applications. <i>Micromachines</i> , 2018, 9, 679.	1.4	99
23	Visible Light Photoinitiation of Cell-Adhesive Gelatin Methacryloyl Hydrogels for Stereolithography 3D Bioprinting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26859-26869.	4.0	197
24	Rapid Fabrication of Multilayer Microfluidic Devices Using the Liquid Crystal Display-Based Stereolithography 3D Printing System. <i>3D Printing and Additive Manufacturing</i> , 2017, 4, 156-164.	1.4	40
25	Visible light-based stereolithography bioprinting of cell-adhesive gelatin hydrogels. , 2017, 2017, 1599-1602.		29
26	Comparative study of gelatin methacrylate hydrogels from different sources for biofabrication applications. <i>Biofabrication</i> , 2017, 9, 044101.	3.7	81
27	Adipose-Derived Stem Cells for Tissue Engineering and Regenerative Medicine Applications. <i>Stem Cells International</i> , 2016, 2016, 1-19.	1.2	221
28	High-throughput investigation of endothelial-to-mesenchymal transformation (EndMT) with combinatorial cellular microarrays. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1403-1412.	1.7	16
29	An automated system for high-throughput generation and optimization of microdroplets. <i>Biomicrofluidics</i> , 2016, 10, 054110.	1.2	12
30	Experimental and computational study of microfluidic flow-focusing generation of gelatin methacrylate hydrogel droplets. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	24
31	An ultrafast hydrogel photocrosslinking method for direct laser bioprinting. <i>RSC Advances</i> , 2016, 6, 21099-21104.	1.7	75
32	Rapid fabrication of circular channel microfluidic flow-focusing devices for hydrogel droplet generation. <i>Micro and Nano Letters</i> , 2016, 11, 41-45.	0.6	21
33	Nanowire-Based Sensors for Biological and Medical Applications. <i>IEEE Transactions on Nanobioscience</i> , 2016, 15, 186-199.	2.2	60
34	3D bioprinting for engineering complex tissues. <i>Biotechnology Advances</i> , 2016, 34, 422-434.	6.0	1,240
35	Organ-on-a-Chip Platforms for Drug Screening and Tissue Engineering. <i>Biosystems and Biorobotics</i> , 2016, , 209-233.	0.2	15
36	The cleanroom-free rapid fabrication of a liquid conductivity sensor for surface water quality monitoring. <i>Microsystem Technologies</i> , 2016, 22, 2273-2278.	1.2	4

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37	A simple and high-resolution stereolithography-based 3D bioprinting system using visible light crosslinkable bioinks. <i>Biofabrication</i> , 2015, 7, 045009.	3.7	466
38	Multiscale stress-strain characterization of onion outer epidermal tissue in wet and dry states. <i>American Journal of Botany</i> , 2015, 102, 12-20.	0.8	36
39	Embryoid body size-mediated differential endodermal and mesodermal differentiation using polyethylene glycol (PEG) microwell array. <i>Macromolecular Research</i> , 2015, 23, 245-255.	1.0	21
40	An optical multi-sensing system for detection of cardiovascular toxicity. <i>Biotechnology Letters</i> , 2014, 36, 1089-1094.	1.1	3
41	Microfluidics-Assisted Fabrication of Gelatin-Silica Core-Shell Microgels for Injectable Tissue Constructs. <i>Biomacromolecules</i> , 2014, 15, 283-290.	2.6	133
42	Carbon-Nanotube-Embedded Hydrogel Sheets for Engineering Cardiac Constructs and Bioactuators. <i>ACS Nano</i> , 2013, 7, 2369-2380.	7.3	789
43	Sacrificial layer technique for axial force post assay of immature cardiomyocytes. <i>Biomedical Microdevices</i> , 2013, 15, 171-181.	1.4	35
44	Directed endothelial cell morphogenesis in micropatterned gelatin methacrylate hydrogels. <i>Biomaterials</i> , 2012, 33, 9009-9018.	5.7	221
45	Spot Identification and Quality Control in Cell-Based Microarrays. <i>ACS Combinatorial Science</i> , 2012, 14, 471-477.	3.8	11