

Se-Jun Lee

List of Publications by Year in descending order

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73
papers

5,088
citations

71102

41
h-index

88630

70
g-index

75
all docs

75
docs citations

75
times ranked

6049
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Bioprinting for Organ Regeneration. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601118.	7.6	385
2	4D printing smart biomedical scaffolds with novel soybean oil epoxidized acrylate. <i>Scientific Reports</i> , 2016, 6, 27226.	3.3	296
3	4D printing of polymeric materials for tissue and organ regeneration. <i>Materials Today</i> , 2017, 20, 577-591.	14.2	292
4	3D printing nano conductive multi-walled carbon nanotube scaffolds for nerve regeneration. <i>Journal of Neural Engineering</i> , 2018, 15, 016018.	3.5	176
5	Integrating biologically inspired nanomaterials and table-top stereolithography for 3D printed biomimetic osteochondral scaffolds. <i>Nanoscale</i> , 2015, 7, 14010-14022.	5.6	172
6	Development of 3D printable conductive hydrogel with crystallized PEDOT:PSS for neural tissue engineering. <i>Materials Science and Engineering C</i> , 2019, 99, 582-590.	7.3	167
7	3D printed nanocomposite matrix for the study of breast cancer bone metastasis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 69-79.	3.3	162
8	Hierarchical Fabrication of Engineered Vascularized Bone Biphasic Constructs via Dual 3D Bioprinting: Integrating Regional Bioactive Factors into Architectural Design. <i>Advanced Healthcare Materials</i> , 2016, 5, 2174-2181.	7.6	153
9	3D bioprinting mesenchymal stem cell-laden construct with core-shell nanospheres for cartilage tissue engineering. <i>Nanotechnology</i> , 2018, 29, 185101.	2.6	134
10	Four-Dimensional Printing Hierarchy Scaffolds with Highly Biocompatible Smart Polymers for Tissue Engineering Applications. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 952-963.	2.1	128
11	Fabrication of a Highly Aligned Neural Scaffold via a Table Top Stereolithography 3D Printing and Electrospinning. <i>Tissue Engineering - Part A</i> , 2017, 23, 491-502.	3.1	125
12	4D physiologically adaptable cardiac patch: A 4-month in vivo study for the treatment of myocardial infarction. <i>Science Advances</i> , 2020, 6, eabb5067.	10.3	118
13	3D bioprinting for cardiovascular regeneration and pharmacology. <i>Advanced Drug Delivery Reviews</i> , 2018, 132, 252-269.	13.7	115
14	Stereolithographic 4D Bioprinting of Multiresponsive Architectures for Neural Engineering. <i>Advanced Biology</i> , 2018, 2, 1800101.	3.0	114
15	Highly aligned nanocomposite scaffolds by electrospinning and electrospaying for neural tissue regeneration. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 693-704.	3.3	108
16	Improved Human Bone Marrow Mesenchymal Stem Cell Osteogenesis in 3D Bioprinted Tissue Scaffolds with Low Intensity Pulsed Ultrasound Stimulation. <i>Scientific Reports</i> , 2016, 6, 32876.	3.3	99
17	Photolithographic-stereolithographic-tandem fabrication of 4D smart scaffolds for improved stem cell cardiomyogenic differentiation. <i>Biofabrication</i> , 2018, 10, 035007.	7.1	92
18	Recent advances in 3D printing: vascular network for tissue and organ regeneration. <i>Translational Research</i> , 2019, 211, 46-63.	5.0	92

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19	<i>In vitro</i> and <i>in vivo</i> evaluation of 3D bioprinted small-diameter vasculature with smooth muscle and endothelium. <i>Biofabrication</i> , 2020, 12, 015004.	7.1	90
20	Enhanced neural stem cell functions in conductive annealed carbon nanofibrous scaffolds with electrical stimulation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2485-2494.	3.3	89
21	Titanium dental implants surface-immobilized with gold nanoparticles as osteoinductive agents for rapid osseointegration. <i>Journal of Colloid and Interface Science</i> , 2016, 469, 129-137.	9.4	87
22	A novel near-infrared light responsive 4D printed nanoarchitecture with dynamically and remotely controllable transformation. <i>Nano Research</i> , 2019, 12, 1381-1388.	10.4	82
23	4D Printed Cardiac Construct with Aligned Myofibers and Adjustable Curvature for Myocardial Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12746-12758.	8.0	82
24	4D printing soft robotics for biomedical applications. <i>Additive Manufacturing</i> , 2020, 36, 101567.	3.0	73
25	Multifunctional hydrogel coatings on the surface of neural cuff electrode for improving electrode-nerve tissue interfaces. <i>Acta Biomaterialia</i> , 2016, 39, 25-33.	8.3	71
26	Engineering a biomimetic three-dimensional nanostructured bone model for breast cancer bone metastasis study. <i>Acta Biomaterialia</i> , 2015, 14, 164-174.	8.3	70
27	Synergistic Effect of Cold Atmospheric Plasma and Drug Loaded Core-shell Nanoparticles on Inhibiting Breast Cancer Cell Growth. <i>Scientific Reports</i> , 2016, 6, 21974.	3.3	70
28	3D Bioprinting-Tunable Small-Diameter Blood Vessels with Biomimetic Biphasic Cell Layers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45904-45915.	8.0	70
29	Advances in 3D Bioprinting for Neural Tissue Engineering. <i>Advanced Biology</i> , 2018, 2, 1700213.	3.0	69
30	3D printing scaffold coupled with low level light therapy for neural tissue regeneration. <i>Biofabrication</i> , 2017, 9, 025002.	7.1	68
31	Bio-Based Polymers for 3D Printing of Bioscaffolds. <i>Polymer Reviews</i> , 2018, 58, 668-687.	10.9	67
32	Design of a Novel 3D Printed Bioactive Nanocomposite Scaffold for Improved Osteochondral Regeneration. <i>Cellular and Molecular Bioengineering</i> , 2015, 8, 416-432.	2.1	66
33	4D printing in biomedical applications: emerging trends and technologies. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7608-7632.	5.8	65
34	Development of Novel 3-D Printed Scaffolds With Core-Shell Nanoparticles for Nerve Regeneration. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 408-418.	4.2	62
35	Emerging 4D Printing Strategies for Next-Generation Tissue Regeneration and Medical Devices. <i>Advanced Materials</i> , 2022, 34, e2109198.	21.0	57
36	The Strong Cell-based Hydrogen Peroxide Generation Triggered by Cold Atmospheric Plasma. <i>Scientific Reports</i> , 2017, 7, 10831.	3.3	56

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37	Three-Dimensional Printing Articular Cartilage: Recapitulating the Complexity of Native Tissue. <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 225-236.	4.8	55
38	Dual 3D printing for vascularized bone tissue regeneration. <i>Acta Biomaterialia</i> , 2021, 123, 263-274.	8.3	53
39	3D Printed scaffolds with hierarchical biomimetic structure for osteochondral regeneration. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 19, 58-70.	3.3	49
40	4D Self-Morphing Culture Substrate for Modulating Cell Differentiation. <i>Advanced Science</i> , 2020, 7, 1902403.	11.2	46
41	Effects of scaffold microstructure and low intensity pulsed ultrasound on chondrogenic differentiation of human mesenchymal stem cells. <i>Biotechnology and Bioengineering</i> , 2018, 115, 495-506.	3.3	45
42	Engineering a Novel 3D Printed Vascularized Tissue Model for Investigating Breast Cancer Metastasis to Bone. <i>Advanced Healthcare Materials</i> , 2020, 9, e1900924.	7.6	45
43	Advanced 4D-bioprinting technologies for brain tissue modeling and study. <i>International Journal of Smart and Nano Materials</i> , 2019, 10, 177-204.	4.2	40
44	4D anisotropic skeletal muscle tissue constructs fabricated by staircase effect strategy. <i>Biofabrication</i> , 2019, 11, 035030.	7.1	40
45	Lipid Coated Microbubbles and Low Intensity Pulsed Ultrasound Enhance Chondrogenesis of Human Mesenchymal Stem Cells in 3D Printed Scaffolds. <i>Scientific Reports</i> , 2016, 6, 37728.	3.3	39
46	Aggregation State of Metal-Based Nanomaterials at the Pulmonary Surfactant Film Determines Biophysical Inhibition. <i>Environmental Science & Technology</i> , 2018, 52, 8920-8929.	10.0	38
47	Recent advances in bioprinting technologies for engineering cardiac tissue. <i>Materials Science and Engineering C</i> , 2021, 124, 112057.	7.3	35
48	3D printing novel in vitro cancer cell culture model systems for lung cancer stem cell study. <i>Materials Science and Engineering C</i> , 2021, 122, 111914.	7.3	32
49	Cold Atmospheric Plasma Modified Electrospun Scaffolds with Embedded Microspheres for Improved Cartilage Regeneration. <i>PLoS ONE</i> , 2015, 10, e0134729.	2.5	29
50	Biophysical Assessment of Pulmonary Surfactant Predicts the Lung Toxicity of Nanomaterials. <i>Small Methods</i> , 2018, 2, 1700367.	8.6	28
51	Directly Induced Neural Differentiation of Human Adipose-Derived Stem Cells Using Three-Dimensional Culture System of Conductive Microwell with Electrical Stimulation. <i>Tissue Engineering - Part A</i> , 2018, 24, 537-545.	3.1	28
52	Biomimetic biphasic Ca nanocomposite scaffold for osteochondral regeneration. <i>AIChE Journal</i> , 2014, 60, 432-442.	3.6	26
53	Recent advances in bioprinting technologies for engineering hepatic tissue. <i>Materials Science and Engineering C</i> , 2021, 123, 112013.	7.3	26
54	Single-step synthesis of carbon encapsulated magnetic nanoparticles in arc plasma and potential biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 414-421.	9.4	23

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55	Integration of biological systems with electronic-mechanical assemblies. <i>Acta Biomaterialia</i> , 2019, 95, 91-111.	8.3	23
56	Integrating three-dimensional printing and nanotechnology for musculoskeletal regeneration. <i>Nanotechnology</i> , 2017, 28, 382001.	2.6	22
57	Integrating cold atmospheric plasma with 3D printed bioactive nanocomposite scaffold for cartilage regeneration. <i>Materials Science and Engineering C</i> , 2020, 111, 110844.	7.3	22
58	Acoustic and mechanical characterization of 3D-printed scaffolds for tissue engineering applications. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 055013.	3.3	20
59	Enhanced Osteogenic Differentiation of Human Mesenchymal Stem Cells Using Microbubbles and Low Intensity Pulsed Ultrasound on 3D Printed Scaffolds. <i>Advanced Biology</i> , 2019, 3, e1800257.	3.0	19
60	How can 3D printing be a powerful tool in nanomedicine?. <i>Nanomedicine</i> , 2018, 13, 251-253.	3.3	15
61	Enhanced neuronal differentiation of neural stem cells with mechanically enhanced touch-spun nanofibrous scaffolds. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 24, 102152.	3.3	15
62	Simulated Body Fluid Nucleation of Three-Dimensional Printed Elastomeric Scaffolds for Enhanced Osteogenesis. <i>Tissue Engineering - Part A</i> , 2016, 22, 940-948.	3.1	14
63	Inhibition of Human Breast Cancer Cell Proliferation by <scp>Lowâ€Intensity</scp> Ultrasound Stimulation. <i>Journal of Ultrasound in Medicine</i> , 2020, 39, 2043-2052.	1.7	10
64	Enhanced human bone marrow mesenchymal stem cell functions on cathodic arc plasma-treated titanium. <i>International Journal of Nanomedicine</i> , 2015, 10, 7385.	6.7	8
65	Development of a Novel 3D Bioprinted In Vitro Nano Bone Model for Breast Cancer Bone Metastasis Study. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1724, 1.	0.1	5
66	Nanotechnology and 3D/4D Bioprinting for Neural Tissue Regeneration. , 2022, , 427-458.		4
67	Enhanced Human Bone Marrow Mesenchymal Stem Cell Chondrogenic Differentiation on Cold Atmospheric Plasma Modified Cartilage Scaffold. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1723, 1.	0.1	3
68	Acoustic Droplet Vaporization of Perfluorocarbon Droplets in 3D-Printable Gelatin Methacrylate Scaffolds. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 3263-3274.	1.5	2
69	Novel Biologically Inspired Nanostructured Scaffolds for Directing Chondrogenic Differentiation of Mesenchymal Stem Cells. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1498, 59-66.	0.1	1
70	Enhanced osteoblast adhesion on novel biomimetic nanotube/nanoparticle coating for orthopedic applications. , 2012, , .		0
71	Design a Biologically Inspired Nanostructured Coating for Better Osseointegration. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1418, 111.	0.1	0
72	3D Bioprinting: Biologically Inspired Smart Release System Based on 3D Bioprinted Perfused Scaffold for Vascularized Tissue Regeneration (<i>Adv. Sci.</i> 8/2016). <i>Advanced Science</i> , 2016, 3, .	11.2	0

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73	Nanotechnology: A Toolkit for Cell Behavior. , 2015, , 3-32.		0