

Jin Woo Lee

List of Publications by Year in descending order

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56
papers

3,153
citations

236833

25
h-index

155592

55
g-index

56
all docs

56
docs citations

56
times ranked

4634
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Strategy for Creating an Antibacterial Surface Using a Highly Efficient Electrospray-Based Method for Silica Deposition. <i>International Journal of Molecular Sciences</i> , 2022, 23, 513.	1.8	8
2	Development of a 3D subcutaneous construct containing insulin-producing beta cells using bioprinting. <i>Bio-Design and Manufacturing</i> , 2022, 5, 265-276.	3.9	9
3	PCL/Sodium-Alginate Based 3D-Printed Dual Drug Delivery System with Antibacterial Activity for Osteomyelitis Therapy. <i>Gels</i> , 2022, 8, 163.	2.1	18
4	3D Spheroid Cultures of Stem Cells and Exosome Applications for Cartilage Repair. <i>Life</i> , 2022, 12, 939.	1.1	11
5	Motility Improvement of Biomimetic Trachea Scaffold via Hybrid 3D-Bioprinting Technology. <i>Polymers</i> , 2021, 13, 971.	2.0	13
6	Development of Multi-layer Tubular Vascular Scaffold to Enhance Compliance by Exhibiting a Negative Poisson's Ratio. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 841-853.	2.7	8
7	Development of a Multi-Layer Skin Substitute Using Human Hair Keratinic Extract-Based Hybrid 3D Printing. <i>Polymers</i> , 2021, 13, 2584.	2.0	20
8	Development of a novel dual reproductive organ on a chip: recapitulating bidirectional endocrine crosstalk between the uterine endometrium and the ovary. <i>Biofabrication</i> , 2021, 13, 015001.	3.7	18
9	Targeting Cancer Stem Cell Markers or Pathways: A Potential Therapeutic Strategy for Oral Cancer Treatment. <i>International Journal of Stem Cells</i> , 2021, 14, 386-399.	0.8	3
10	Auxetic Structures for Tissue Engineering Scaffolds and Biomedical Devices. <i>Materials</i> , 2021, 14, 6821.	1.3	27
11	Development of a heat labile antibiotic eluting 3D printed scaffold for the treatment of osteomyelitis. <i>Scientific Reports</i> , 2020, 10, 7554.	1.6	35
12	Simulated microgravity with floating environment promotes migration of non-small cell lung cancers. <i>Scientific Reports</i> , 2019, 9, 14553.	1.6	29
13	Development of a 3D-Printed Drug-Eluting Stent for Treating Obstructive Salivary Gland Disease. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3572-3581.	2.6	26
14	Development of a flexible 3D printed scaffold with a cell-adhesive surface for artificial trachea. <i>Biomedical Materials (Bristol)</i> , 2019, 14, 055001.	1.7	20
15	Optimization of Electrospun Poly(ϵ -caprolactone) Fiber Diameter for Vascular Scaffolds to Maximize Smooth Muscle Cell Infiltration and Phenotype Modulation. <i>Polymers</i> , 2019, 11, 643.	2.0	31
16	SERPINB2 Is a Novel Indicator of Cancer Stem Cell Tumorigenicity in Multiple Cancer Types. <i>Cancers</i> , 2019, 11, 499.	1.7	26
17	Feasibility of a 3D Printed Patient-Specific Model System to Determine Hemodynamic Energy Delivery During Extracorporeal Circulation. <i>ASAIO Journal</i> , 2018, 64, 309-317.	0.9	4
18	Development of arginine-glycine-aspartate-immobilized 3D printed poly(propylene fumarate) scaffolds for cartilage tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 917-931.	1.9	24

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19	SERPINB2 is a novel indicator of stem cell toxicity. <i>Cell Death and Disease</i> , 2018, 9, 724.	2.7	20
20	Fabrication and tissue engineering application of a 3D PPF/DEF scaffold using Blu-ray based 3D printing system. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 2581-2587.	0.7	19
21	Two Phase Modulation of NH ₄ ⁺ Entry and Cl ⁻ /HCO ₃ ⁻ Exchanger in Submandibular Glands Cells by Dexmedetomidine. <i>Frontiers in Physiology</i> , 2017, 8, 86.	1.3	9
22	Applications of Functionalized Carbon Nanotubes for the Therapy and Diagnosis of Cancer. <i>Polymers</i> , 2017, 9, 13.	2.0	54
23	Synthesis and Characterization of Poly(Ethylene Glycol) Based Thermo-Responsive Hydrogels for Cell Sheet Engineering. <i>Materials</i> , 2016, 9, 854.	1.3	67
24	Carbon nanotubes as cancer therapeutic carriers and mediators. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 5163-5185.	3.3	193
25	Which Variables Should be Considered as Confounders of Florescence Intensity During Indocyanine Green Bronchoscopy?. <i>Annals of Thoracic Surgery</i> , 2016, 102, 2136-2137.	0.7	1
26	Development of a 3D cell printed construct considering angiogenesis for liver tissue engineering. <i>Biofabrication</i> , 2016, 8, 015007.	3.7	193
27	A Tubular Biomaterial Construct Exhibiting a Negative Poisson's Ratio. <i>PLoS ONE</i> , 2016, 11, e0155681.	1.1	41
28	Initial Graphite Disorder of Carbon Lattice Structures Increase Surface Hydrophilicity and Protein Adsorption. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11896-11902.	0.9	0
29	3D Printing Technology and Its Applications for Tissue/Organ Regeneration. <i>The Journal of the Korean Society for Transplantation</i> , 2015, 29, 187-193.	0.2	3
30	Analysis of Osteoblast Differentiation on Polymer Thin Films Embedded with Carbon Nanotubes. <i>PLoS ONE</i> , 2015, 10, e0129856.	1.1	9
31	3D Nanoprinting Technologies for Tissue Engineering Applications. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-14.	1.5	16
32	A nano-scale probing system with a gold nano-dot array for measurement of a single biomolecular interaction force. <i>RSC Advances</i> , 2015, 5, 105727-105730.	1.7	1
33	Hybrid scaffold composed of hydrogel/3D-framework and its application as a dopamine delivery system. <i>Journal of Controlled Release</i> , 2014, 175, 10-16.	4.8	31
34	Development of a bone reconstruction technique using a solid free-form fabrication (SFF)-based drug releasing scaffold and adipose-derived stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1865-1875.	2.1	16
35	A three-dimensional polymer scaffolding material exhibiting a zero Poisson's ratio. <i>Soft Matter</i> , 2012, 8, 4946.	1.2	77
36	Three-dimensional scaffolding to investigate neuronal derivatives of human embryonic stem cells. <i>Biomedical Microdevices</i> , 2012, 14, 829-838.	1.4	60

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37	Spatial tuning of negative and positive Poisson's ratio in a multi-layer scaffold. <i>Acta Biomaterialia</i> , 2012, 8, 2587-2594.	4.1	70
38	Cancer cell migration within 3D layer-by-layer microfabricated photocrosslinked PEG scaffolds with tunable stiffness. <i>Biomaterials</i> , 2012, 33, 7064-7070.	5.7	107
39	Rapid Fabrication of Complex 3D Extracellular Microenvironments by Dynamic Optical Projection Stereolithography. <i>Advanced Materials</i> , 2012, 24, 4266-4270.	11.1	302
40	Microfabrication of complex porous tissue engineering scaffolds using 3D projection stereolithography. <i>Biomaterials</i> , 2012, 33, 3824-3834.	5.7	560
41	Evaluation of cell proliferation and differentiation on a poly(propylene fumarate) 3D scaffold treated with functional peptides. <i>Journal of Materials Science</i> , 2011, 46, 5282-5287.	1.7	25
42	Bone regeneration using a microstereolithography-produced customized poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (<i>Biomaterials</i> , 2011, 32, 744-752.	5.7	239
43	Three-dimensional Polymer Constructs Exhibiting a Tunable Negative Poisson's Ratio. <i>Advanced Functional Materials</i> , 2011, 21, 2712-2720.	7.8	128
44	Evaluating cell proliferation based on internal pore size and 3D scaffold architecture fabricated using solid freeform fabrication technology. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 3195-3205.	1.7	77
45	Gustatory sweating after submandibular gland excision. <i>Otolaryngology - Head and Neck Surgery</i> , 2010, 143, 845-846.	1.1	2
46	Effect of Pore Architecture on Oxygen Diffusion in 3D Scaffolds for Tissue Engineering. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 104506.	0.6	35
47	Solid Free-form Fabrication Technology and Its Application to Bone Tissue Engineering. <i>International Journal of Stem Cells</i> , 2010, 3, 85-95.	0.8	60
48	Development of 3D PPF/DEF scaffolds using micro-stereolithography and surface modification. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 271-279.	1.7	129
49	Estimation of cell proliferation by various peptide coating at the PPF/DEF 3D scaffold. <i>Microelectronic Engineering</i> , 2009, 86, 1451-1454.	1.1	16
50	Development of nano- and microscale composite 3D scaffolds using PPF/DEF-HA and micro-stereolithography. <i>Microelectronic Engineering</i> , 2009, 86, 1465-1467.	1.1	100
51	Fabrication and characteristic analysis of a poly(propylene fumarate) scaffold using micro-stereolithography technology. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 87B, 1-9.	1.6	69
52	3D scaffold fabrication with PPF/DEF using micro-stereolithography. <i>Microelectronic Engineering</i> , 2007, 84, 1702-1705.	1.1	63
53	Fluid-dynamic optimality in the generation-averaged length-to-diameter ratio of the human bronchial tree. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 1071-1078.	1.6	14
54	Development of a Resin Curing Model for UV Nanoimprint. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 1637-1642.	0.9	3

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55	Nonequilibrium Reynolds stress for the dispersed phase of solid particles in turbulent flows. <i>Physics of Fluids</i> , 2002, 14, 2898-2916.	1.6	2
56	Monte-Carlo Simulation of Turbulent Deposition of Charged Particles in a Plate-Plate Electrostatic Precipitator. <i>Aerosol Science and Technology</i> , 1996, 25, 31-45.	1.5	12