

Hak-Joon Sung

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

3,283
citations

201385

27
h-index

155451

55
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all docs

94
docs citations

94
times ranked

6006
citing authors

#	ARTICLE	IF	CITATIONS
1	Sprayable nanomicelle hydrogels and inflammatory bowel disease patient cell chips for development of intestinal lesion-specific therapy. <i>Bioactive Materials</i> , 2022, 18, 433-445.	8.6	8
2	Nanotheranostics of Preâ€Stenotic Vessels By Target Touchâ€On Signaling of Peptide Navigator. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	1
3	Nanotheranostics of Preâ€Stenotic Vessels By Target Touchâ€On Signaling of Peptide Navigator (Adv.) <i>TJ ETQq1 1 0,784314 0gBT /O</i>	7.8	0
4	Serum glucose excretion after Roux-en-Y gastric bypass: a potential target for diabetes treatment. <i>Gut</i> , 2021, 70, 1847-1856.	6.1	19
5	Dilationâ€Responsive Microshape Programing Prevents Vascular Graft Stenosis. <i>Small</i> , 2021, 17, e2007297.	5.2	7
6	Immunomodulatory Scaffolds Derived from Lymph Node Extracellular Matrices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14037-14049.	4.0	14
7	Anti-atherosclerotic vaccination against <i>Porphyrromonas gingivalis</i> as a potential comparator of statin in mice. <i>PeerJ</i> , 2021, 9, e11293.	0.9	5
8	Hormone autocrination by vascularized hydrogel delivery of ovary spheroids to rescue ovarian dysfunctions. <i>Science Advances</i> , 2021, 7, .	4.7	19
9	Selfâ€Enclosable External Support: Dilationâ€Responsive Microshape Programing Prevents Vascular Graft Stenosis (Small 18/2021). <i>Small</i> , 2021, 17, 2170083.	5.2	0
10	Cellâ€Membraneâ€Derived Nanoparticles with Notchâ€1 Suppressor Delivery Promote Hypoxic Cellâ€Cell Packing and Inhibit Angiogenesis Acting as a Twoâ€Edged Sword. <i>Advanced Materials</i> , 2021, 33, e2101558.	11.1	6
11	Cellâ€Membraneâ€Derived Nanoparticles with Notchâ€1 Suppressor Delivery Promote Hypoxic Cellâ€Cell Packing and Inhibit Angiogenesis Acting as a Twoâ€Edged Sword (Adv. Mater. 40/2021). <i>Advanced Materials</i> , 2021, 33, 2170312.	11.1	0
12	Cancer Patient Tissueoid with Selfâ€Homing Nanoâ€Targeting of Metabolic Inhibitor. <i>Advanced Science</i> , 2021, 8, 2102640.	5.6	3
13	Quenching Epigenetic Drug Resistance Using Antihypoxic Microparticles in Glioblastoma Patientâ€Derived Chips. <i>Advanced Healthcare Materials</i> , 2021, , 2102226.	3.9	5
14	Catalytic microgelators for decoupled control of gelation rate and rigidity of the biological gels. <i>Journal of Controlled Release</i> , 2020, 317, 166-180.	4.8	2
15	Microengineered human bloodâ€brain barrier platform for understanding nanoparticle transport mechanisms. <i>Nature Communications</i> , 2020, 11, 175.	5.8	236
16	Nasolacrimal stent with shape memory as an advanced alternative to silicone products. <i>Acta Biomaterialia</i> , 2020, 101, 273-284.	4.1	12
17	Synergistic Adhesiveness of Fibronectin with PHSRN Peptide in Gelatin Mixture Promotes the Therapeutic Potential of Human ES-Derived MSCs. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 73-86.	1.0	3
18	External Selfâ€Closing Tube to Occlude a Vessel Gradually as a Therapeutic Means of Portosystemic Shunt. <i>Advanced Therapeutics</i> , 2020, 3, 2000039.	1.6	2

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19	Shape Memory Tube Plug for Fine-control of Intraocular Pressure by Glaucoma Devices. ACS Biomaterials Science and Engineering, 2020, 6, 3784-3790.	2.6	6
20	Hydrogel cross-linkingâ€“programmed release of nitric oxide regulates source-dependent angiogenic behaviors of human mesenchymal stem cell. Science Advances, 2020, 6, eaay5413.	4.7	33
21	Microchannel network hydrogel induced ischemic blood perfusion connection. Nature Communications, 2020, 11, 615.	5.8	43
22	Antiâ€“Atherogenic Effect of Stem Cell Nanovesicles Targeting Disturbed Flow Sites. Small, 2020, 16, e2000012.	5.2	14
23	Development of a Shapeâ€“Memory Tube to Prevent Vascular Stenosis. Advanced Materials, 2019, 31, e1904476.	11.1	38
24	Three-Dimensionally Printed Breast Reconstruction Devices Facilitate Nanostructure Surface-Guided Healthy Lipogenesis. ACS Biomaterials Science and Engineering, 2019, 5, 4962-4969.	2.6	6
25	Implantable Vascularized Liver Chip for Crossâ€“Validation of Disease Treatment with Animal Model. Advanced Functional Materials, 2019, 29, 1900075.	7.8	28
26	Design of Polymeric Culture Substrates to Promote Proangiogenic Potential of Stem Cells. Macromolecular Bioscience, 2018, 18, 1700340.	2.1	0
27	Association Between Impairment of DNA Double Strand Break Repair and Decreased Ovarian Reserve in Patients With Endometriosis. Frontiers in Endocrinology, 2018, 9, 772.	1.5	12
28	ROS-Responsive Biomaterial Design for Medical Applications. Advances in Experimental Medicine and Biology, 2018, 1064, 237-251.	0.8	5
29	Angiogenic and Osteogenic Synergy of Human Mesenchymal Stem Cells and Human Umbilical Vein Endothelial Cells Cocultured on a Nanomatrix. Scientific Reports, 2018, 8, 15749.	1.6	29
30	Spatial Organization of Superparamagnetic Iron Oxide Nanoparticles in/on Nano/Microsized Carriers Modulates the Magnetic Resonance Signal. Langmuir, 2018, 34, 15276-15282.	1.6	7
31	Porcine As a Training Module for Head and Neck Microvascular Reconstruction. Journal of Visualized Experiments, 2018, , .	0.2	2
32	Microneedle Vascular Couplers with Heparin-Immobilized Surface Improve Suture-Free Anastomosis Performance. ACS Biomaterials Science and Engineering, 2018, 4, 3848-3853.	2.6	4
33	Direct Control of Stem Cell Behavior Using Biomaterials and Genetic Factors. Stem Cells International, 2018, 2018, 1-17.	1.2	13
34	Aging Donor-Derived Human Mesenchymal Stem Cells Exhibit Reduced Reactive Oxygen Species Loads and Increased Differentiation Potential Following Serial Expansion on a PEG-PCL Copolymer Substrate. International Journal of Molecular Sciences, 2018, 19, 359.	1.8	7
35	Tunable Surface Repellency Maintains Stemness and Redox Capacity of Human Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2017, 9, 22994-23006.	4.0	16
36	Gradient release of cardiac morphogens by photo-responsive polymer micelles for gradient-mediated variation of embryoid body differentiation. Journal of Materials Chemistry B, 2017, 5, 5206-5217.	2.9	6

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37	High-content image informatics of the structural nuclear protein NuMA parses trajectories for stem/progenitor cell lineages and oncogenic transformation. <i>Experimental Cell Research</i> , 2017, 351, 11-23.	1.2	10
38	Heparin-functionalized polymer graft surface eluting MK2 inhibitory peptide to improve hemocompatibility and anti-neointimal activity. <i>Journal of Controlled Release</i> , 2017, 266, 321-330.	4.8	12
39	Oxidized cyclodextrin-functionalized injectable gelatin hydrogels as a new platform for tissue-adhesive hydrophobic drug delivery. <i>RSC Advances</i> , 2017, 7, 34053-34062.	1.7	39
40	The nesprin-cytoskeleton interface probed directly on single nuclei is a mechanically rich system. <i>Nucleus</i> , 2017, 8, 534-547.	0.6	16
41	MG-63 Cell Proliferation with Static or Dynamic Compressive Stimulation on an Auxetic PLGA Scaffold. <i>International Journal of Polymer Science</i> , 2017, 2017, 1-6.	1.2	8
42	In Situ Forming Gelatin Hydrogels-Directed Angiogenic Differentiation and Activity of Patient-Derived Human Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1705.	1.8	14
43	Tracheal reconstruction with a free vascularized myofascial flap: preclinical investigation in a porcine model to human clinical application. <i>Scientific Reports</i> , 2017, 7, 10022.	1.6	8
44	Recent strategies to design vascular theranostic nanoparticles. <i>Nanotheranostics</i> , 2017, 1, 166-177.	2.7	27
45	Cationic Nanocylinders Promote Angiogenic Activities of Endothelial Cells. <i>Polymers</i> , 2016, 8, 15.	2.0	14
46	Development of Poly(ϵ -caprolactone) Scaffold Loaded with Simvastatin and Beta-Cyclodextrin Modified Hydroxyapatite Inclusion Complex for Bone Tissue Engineering. <i>Polymers</i> , 2016, 8, 49.	2.0	18
47	Noncovalent π - π Stacking at the Carbon Electrolyte Interface: Controlling the Voltage Window of Electrochemical Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19558-19566.	4.0	26
48	Directing lineage specification of human mesenchymal stem cells by decoupling electrical stimulation and physical patterning on unmodified graphene. <i>Nanoscale</i> , 2016, 8, 13730-13739.	2.8	39
49	Reprint of: Pendant allyl crosslinking as a tunable shape memory actuator for vascular applications. <i>Acta Biomaterialia</i> , 2016, 34, 73-83.	4.1	11
50	Copolymer-Mediated Cell Aggregation Promotes a Proangiogenic Stem Cell Phenotype In Vitro and In Vivo. <i>Advanced Healthcare Materials</i> , 2016, 5, 2866-2871.	3.9	5
51	Biomaterial-Based Approaches to Address Vein Graft and Hemodialysis Access Failures. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1860-1880.	2.0	9
52	MG-63 osteoblast-like cell proliferation on auxetic PLGA scaffold with mechanical stimulation for bone tissue regeneration. <i>Biomaterials Research</i> , 2016, 20, 33.	3.2	15
53	MG-63 cells proliferation following various types of mechanical stimulation on cells by auxetic hybrid scaffolds. <i>Biomaterials Research</i> , 2016, 20, 32.	3.2	16
54	Development of 3D Microvascular Networks Within Gelatin Hydrogels Using Thermoresponsive Sacrificial Microfibers. <i>Advanced Healthcare Materials</i> , 2016, 5, 781-785.	3.9	81

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55	Poly(L-Lactic Acid)/Gelatin Fibrous Scaffold Loaded with Simvastatin/Beta-Cyclodextrin-Modified Hydroxyapatite Inclusion Complex for Bone Tissue Regeneration. <i>Macromolecular Bioscience</i> , 2016, 16, 1027-1038.	2.1	44
56	Biomimetic Microstructure Morphology in Electrospun Fiber Mats is Critical for Maintaining Healthy Cardiomyocyte Phenotype. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 107-115.	1.0	8
57	Patterned polymer matrix promotes stemness and cell-cell interaction of adult stem cells. <i>Journal of Biological Engineering</i> , 2015, 9, 18.	2.0	15
58	Current Progress in Nanotechnology Applications for Diagnosis and Treatment of Kidney Diseases. <i>Advanced Healthcare Materials</i> , 2015, 4, 2037-2045.	3.9	18
59	Pendant allyl crosslinking as a tunable shape memory actuator for vascular applications. <i>Acta Biomaterialia</i> , 2015, 24, 53-63.	4.1	32
60	Granulocyte-colony stimulating factor as a treatment for diabetic neuropathy in rat. <i>Molecular and Cellular Endocrinology</i> , 2015, 414, 64-72.	1.6	10
61	A temperature-sensitive, self-adhesive hydrogel to deliver iPSC-derived cardiomyocytes for heart repair. <i>International Journal of Cardiology</i> , 2015, 190, 177-180.	0.8	23
62	Phage-Display-Guided Nanocarrier Targeting to Atheroprone Vasculature. <i>ACS Nano</i> , 2015, 9, 4435-4446.	7.3	27
63	Differential responses of induced pluripotent stem cell-derived cardiomyocytes to anisotropic strain depends on disease status. <i>Journal of Biomechanics</i> , 2015, 48, 3890-3896.	0.9	13
64	Oligoproline-derived nanocarrier for dual stimuli-responsive gene delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7271-7280.	2.9	32
65	Combinatorial polymer matrices enhance in vitro maturation of human induced pluripotent stem cell-derived cardiomyocytes. <i>Biomaterials</i> , 2015, 67, 52-64.	5.7	71
66	Cardiac ECM Structure-Mimetic Electrospun Scaffolds Reinstates Healthy Cardiomyocyte Phenotype. <i>FASEB Journal</i> , 2015, 29, 946.10.	0.2	0
67	In Situ Crosslinkable Gelatin Hydrogels for Vasculogenic Induction and Delivery of Mesenchymal Stem Cells. <i>Advanced Functional Materials</i> , 2014, 24, 6771-6781.	7.8	69
68	Polymeric stent materials dysregulate macrophage and endothelial cell functions: Implications for coronary artery stent. <i>International Journal of Cardiology</i> , 2014, 174, 688-695.	0.8	9
69	Cancer Stem Cells Under Hypoxia as a Chemoresistance Factor in the Breast and Brain. <i>Current Pathobiology Reports</i> , 2014, 2, 33-40.	1.6	45
70	ROS-cleavable proline oligomer crosslinking of polycaprolactone for pro-angiogenic host response. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7109-7113.	2.9	50
71	Uncoupling angiogenesis and inflammation in peripheral artery disease with therapeutic peptide-loaded microgels. <i>Biomaterials</i> , 2014, 35, 9635-9648.	5.7	28
72	Femtosecond laser-patterned nanopore arrays for surface-mediated peptide treatment. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 11-14.	1.7	5

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73	Passage-dependent cancerous transformation of human mesenchymal stem cells under carcinogenic hypoxia. <i>FASEB Journal</i> , 2013, 27, 2788-2798.	0.2	29
74	Three-dimensional graphene foams promote osteogenic differentiation of human mesenchymal stem cells. <i>Nanoscale</i> , 2013, 5, 4171.	2.8	221
75	Neurovascular unit on a chip: implications for translational applications. <i>Stem Cell Research and Therapy</i> , 2013, 4, S18.	2.4	56
76	In situ forming gelatin-based tissue adhesives and their phenolic content-driven properties. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2407.	2.9	108
77	Current Progress in Reactive Oxygen Species (ROS)-Responsive Materials for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2013, 2, 908-915.	3.9	291
78	THERAPEUTIC APPLICATION OF NANOTECHNOLOGY IN CARDIOVASCULAR AND PULMONARY REGENERATION. <i>Computational and Structural Biotechnology Journal</i> , 2013, 7, e201304005.	1.9	13
79	Pro-angiogenic and Anti-inflammatory Regulation by Functional Peptides Loaded in Polymeric Implants for Soft Tissue Regeneration. <i>Tissue Engineering - Part A</i> , 2013, 19, 437-447.	1.6	32
80	Decoupling Polymer Properties to Elucidate Mechanisms Governing Cell Behavior. <i>Tissue Engineering - Part B: Reviews</i> , 2012, 18, 396-404.	2.5	17
81	Material considerations for optical interfacing to the nervous system. <i>MRS Bulletin</i> , 2012, 37, 599-605.	1.7	3
82	Modular polymer design to regulate phenotype and oxidative response of human coronary artery cells for potential stent coating applications. <i>Acta Biomaterialia</i> , 2012, 8, 559-569.	4.1	14
83	Physiologically Relevant Oxidative Degradation of Oligo(proline) Cross-Linked Polymeric Scaffolds. <i>Biomacromolecules</i> , 2011, 12, 4357-4366.	2.6	98
84	Combinatorial Polymer Electrospun Matrices Promote Physiologically-Relevant Cardiomyogenic Stem Cell Differentiation. <i>PLoS ONE</i> , 2011, 6, e28935.	1.1	48
85	Cyclic strain and motion control produce opposite oxidative responses in two human endothelial cell types. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 293, C87-C94.	2.1	34
86	The use of temperature-composition combinatorial libraries to study the effects of biodegradable polymer blend surfaces on vascular cells. <i>Biomaterials</i> , 2005, 26, 4557-4567.	5.7	37
87	Oxidative Stress Produced with Cell Migration Increases Synthetic Phenotype of Vascular Smooth Muscle Cells. <i>Annals of Biomedical Engineering</i> , 2005, 33, 1546-1554.	1.3	47
88	<i>In Vitro</i> Bioassay of Endotoxin Using Fluorescein as a pH Indicator in a Macrophage Cell Culture System. <i>Yonsei Medical Journal</i> , 2005, 46, 268.	0.9	11
89	Matrix Metalloproteinase 9 Facilitates Collagen Remodeling and Angiogenesis for Vascular Constructs. <i>Tissue Engineering</i> , 2005, 11, 267-276.	4.9	40
90	The effect of scaffold degradation rate on three-dimensional cell growth and angiogenesis. <i>Biomaterials</i> , 2004, 25, 5735-5742.	5.7	686

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91	Liposomal Entrapment of Cefoxitin to Improve Cellular Viability and Function in Human Saphenous Veins. <i>Artificial Organs</i> , 2003, 27, 623-630.	1.0	5
92	Antibacterial Effect of Antibiotic Solution on Cellular Viability in Canine Veins. <i>Artificial Organs</i> , 2001, 25, 490-494.	1.0	3
93	Specific Determination of Endothelial Cell Viability in the Whole Cell Fraction from Cryopreserved Canine Femoral Veins Using Flow Cytometry. <i>Artificial Organs</i> , 2000, 24, 829-833.	1.0	12