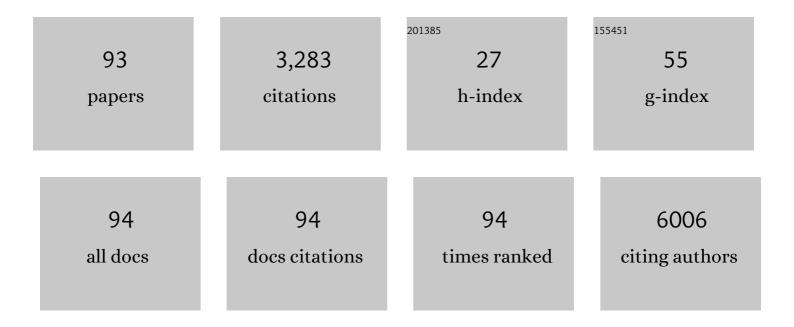
List of Publications by Year in descending order

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HAK-LOON SUNC

#	Article	IF	CITATIONS
1	The effect of scaffold degradation rate on three-dimensional cell growth and angiogenesis. Biomaterials, 2004, 25, 5735-5742.	5.7	686
2	Current Progress in Reactive Oxygen Species (ROS)â€Responsive Materials for Biomedical Applications. Advanced Healthcare Materials, 2013, 2, 908-915.	3.9	291
3	Microengineered human blood–brain barrier platform for understanding nanoparticle transport mechanisms. Nature Communications, 2020, 11, 175.	5.8	236
4	Three-dimensional graphene foams promote osteogenic differentiation of human mesenchymal stem cells. Nanoscale, 2013, 5, 4171.	2.8	221
5	In situ forming gelatin-based tissue adhesives and their phenolic content-driven properties. Journal of Materials Chemistry B, 2013, 1, 2407.	2.9	108
6	Physiologically Relevant Oxidative Degradation of Oligo(proline) Cross-Linked Polymeric Scaffolds. Biomacromolecules, 2011, 12, 4357-4366.	2.6	98
7	Development of 3D Microvascular Networks Within Gelatin Hydrogels Using Thermoresponsive Sacrificial Microfibers. Advanced Healthcare Materials, 2016, 5, 781-785.	3.9	81
8	Combinatorial polymer matrices enhance inÂvitro maturation of human induced pluripotent stem cell-derived cardiomyocytes. Biomaterials, 2015, 67, 52-64.	5.7	71
9	In Situ Crosslinkable Gelatin Hydrogels for Vasculogenic Induction and Delivery of Mesenchymal Stem Cells. Advanced Functional Materials, 2014, 24, 6771-6781.	7.8	69
10	Neurovascular unit on a chip: implications for translational applications. Stem Cell Research and Therapy, 2013, 4, S18.	2.4	56
11	ROS-cleavable proline oligomer crosslinking of polycaprolactone for pro-angiogenic host response. Journal of Materials Chemistry B, 2014, 2, 7109-7113.	2.9	50
12	Combinatorial Polymer Electrospun Matrices Promote Physiologically-Relevant Cardiomyogenic Stem Cell Differentiation. PLoS ONE, 2011, 6, e28935.	1.1	48
13	Oxidative Stress Produced with Cell Migration Increases Synthetic Phenotype of Vascular Smooth Muscle Cells. Annals of Biomedical Engineering, 2005, 33, 1546-1554.	1.3	47
14	Cancer Stem Cells Under Hypoxia as a Chemoresistance Factor in the Breast and Brain. Current Pathobiology Reports, 2014, 2, 33-40.	1.6	45
15	Poly( <scp>l</scp> ‣actic Acid)/Gelatin Fibrous Scaffold Loaded with Simvastatin/Beta yclodextrinâ€Modified Hydroxyapatite Inclusion Complex for Bone Tissue Regeneration. Macromolecular Bioscience, 2016, 16, 1027-1038.	2.1	44
16	Microchannel network hydrogel induced ischemic blood perfusion connection. Nature Communications, 2020, 11, 615.	5.8	43
17	Matrix Metalloproteinase 9 Facilitates Collagen Remodeling and Angiogenesis for Vascular Constructs. Tissue Engineering, 2005, 11, 267-276.	4.9	40
18	Directing lineage specification of human mesenchymal stem cells by decoupling electrical stimulation and physical patterning on unmodified graphene. Nanoscale, 2016, 8, 13730-13739.	2.8	39

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19	Oxidized cyclodextrin-functionalized injectable gelatin hydrogels as a new platform for tissue-adhesive hydrophobic drug delivery. RSC Advances, 2017, 7, 34053-34062.	1.7	39
20	Development of a Shapeâ€Memory Tube to Prevent Vascular Stenosis. Advanced Materials, 2019, 31, e1904476.	11.1	38
21	The use of temperature–composition combinatorial libraries to study the effects of biodegradable polymer blend surfaces on vascular cells. Biomaterials, 2005, 26, 4557-4567.	5.7	37
22	Cyclic strain and motion control produce opposite oxidative responses in two human endothelial cell types. American Journal of Physiology - Cell Physiology, 2007, 293, C87-C94.	2.1	34
23	Hydrogel cross-linking–programmed release of nitric oxide regulates source-dependent angiogenic behaviors of human mesenchymal stem cell. Science Advances, 2020, 6, eaay5413.	4.7	33
24	Pro-angiogenic and Anti-inflammatory Regulation by Functional Peptides Loaded in Polymeric Implants for Soft Tissue Regeneration. Tissue Engineering - Part A, 2013, 19, 437-447.	1.6	32
25	Pendant allyl crosslinking as a tunable shape memory actuator for vascular applications. Acta Biomaterialia, 2015, 24, 53-63.	4.1	32
26	Oligoproline-derived nanocarrier for dual stimuli-responsive gene delivery. Journal of Materials Chemistry B, 2015, 3, 7271-7280.	2.9	32
27	Passageâ€dependent cancerous transformation of human mesenchymal stem cells under carcinogenic hypoxia. FASEB Journal, 2013, 27, 2788-2798.	0.2	29
28	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
29	Uncoupling angiogenesis and inflammation in peripheral artery disease with therapeutic peptide-loaded microgels. Biomaterials, 2014, 35, 9635-9648.	5.7	28
30	Implantable Vascularized Liver Chip for Crossâ€Validation of Disease Treatment with Animal Model. Advanced Functional Materials, 2019, 29, 1900075.	7.8	28
31	Phage-Display-Guided Nanocarrier Targeting to Atheroprone Vasculature. ACS Nano, 2015, 9, 4435-4446.	7.3	27
32	Recent strategies to design vascular theranostic nanoparticles. Nanotheranostics, 2017, 1, 166-177.	2.7	27
33	Noncovalent Pi–Pi Stacking at the Carbon–Electrolyte Interface: Controlling the Voltage Window of Electrochemical Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 19558-19566.	4.0	26
34	A temperature-sensitive, self-adhesive hydrogel to deliver iPSC-derived cardiomyocytes for heart repair. International Journal of Cardiology, 2015, 190, 177-180.	0.8	23
35	Serum glucose excretion after Roux-en-Y gastric bypass: a potential target for diabetes treatment. Gut, 2021, 70, 1847-1856.	6.1	19
36	Hormone autocrination by vascularized hydrogel delivery of ovary spheroids to rescue ovarian dysfunctions. Science Advances, 2021, 7, .	4.7	19

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37	Current Progress in Nanotechnology Applications for Diagnosis and Treatment of Kidney Diseases. Advanced Healthcare Materials, 2015, 4, 2037-2045.	3.9	18
38	Development of Poly(É>-caprolactone) Scaffold Loaded with Simvastatin and Beta-Cyclodextrin Modified Hydroxyapatite Inclusion Complex for Bone Tissue Engineering. Polymers, 2016, 8, 49.	2.0	18
39	Decoupling Polymer Properties to Elucidate Mechanisms Governing Cell Behavior. Tissue Engineering - Part B: Reviews, 2012, 18, 396-404.	2.5	17
40	MG-63 cells proliferation following various types of mechanical stimulation on cells by auxetic hybrid scaffolds. Biomaterials Research, 2016, 20, 32.	3.2	16
41	Tunable Surface Repellency Maintains Stemness and Redox Capacity of Human Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2017, 9, 22994-23006.	4.0	16
42	The nesprin-cytoskeleton interface probed directly on single nuclei is a mechanically rich system. Nucleus, 2017, 8, 534-547.	0.6	16
43	Patterned polymer matrix promotes stemness and cell-cell interaction of adult stem cells. Journal of Biological Engineering, 2015, 9, 18.	2.0	15
44	MG-63 osteoblast-like cell proliferation on auxetic PLGA scaffold with mechanical stimulation for bone tissue regeneration. Biomaterials Research, 2016, 20, 33.	3.2	15
45	Modular polymer design to regulate phenotype and oxidative response of human coronary artery cells for potential stent coating applications. Acta Biomaterialia, 2012, 8, 559-569.	4.1	14
46	Cationic Nanocylinders Promote Angiogenic Activities of Endothelial Cells. Polymers, 2016, 8, 15.	2.0	14
47	In Situ Forming Gelatin Hydrogels-Directed Angiogenic Differentiation and Activity of Patient-Derived Human Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2017, 18, 1705.	1.8	14
48	Antiâ€Atherogenic Effect of Stem Cell Nanovesicles Targeting Disturbed Flow Sites. Small, 2020, 16, e2000012.	5.2	14
49	Immunomodulatory Scaffolds Derived from Lymph Node Extracellular Matrices. ACS Applied Materials & Interfaces, 2021, 13, 14037-14049.	4.0	14
50	THERAPEUTIC APPLICATION OF NANOTECHNOLOGY IN CARDIOVASCULAR AND PULMONARY REGENERATION. Computational and Structural Biotechnology Journal, 2013, 7, e201304005.	1.9	13
51	Differential responses of induced pluripotent stem cell-derived cardiomyocytes to anisotropic strain depends on disease status. Journal of Biomechanics, 2015, 48, 3890-3896.	0.9	13
52	Direct Control of Stem Cell Behavior Using Biomaterials and Genetic Factors. Stem Cells International, 2018, 2018, 1-17.	1.2	13
53	Specific Determination of Endothelial Cell Viability in the Whole Cell Fraction from Cryopreserved Canine Femoral Veins Using Flow Cytometry. Artificial Organs, 2000, 24, 829-833.	1.0	12
54	Heparin-functionalized polymer graft surface eluting MK2 inhibitory peptide to improve hemocompatibility and anti-neointimal activity. Journal of Controlled Release, 2017, 266, 321-330.	4.8	12

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55	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
56	Nasolacrimal stent with shape memory as an advanced alternative to silicone products. Acta Biomaterialia, 2020, 101, 273-284.	4.1	12
57	<i>In Vitro</i> Bioassay of Endotoxin Using Fluorescein as a pH Indicator in a Macrophage Cell Culture System. Yonsei Medical Journal, 2005, 46, 268.	0.9	11
58	Reprint of: Pendant allyl crosslinking as a tunable shape memory actuator for vascular applications. Acta Biomaterialia, 2016, 34, 73-83.	4.1	11
59	Granulocyte-colony stimulating factor as a treatment for diabetic neuropathy in rat. Molecular and Cellular Endocrinology, 2015, 414, 64-72.	1.6	10
60	High-content image informatics of the structural nuclear protein NuMA parses trajectories for stem/progenitor cell lineages and oncogenic transformation. Experimental Cell Research, 2017, 351, 11-23.	1.2	10
61	Polymeric stent materials dysregulate macrophage and endothelial cell functions: Implications for coronary artery stent. International Journal of Cardiology, 2014, 174, 688-695.	0.8	9
62	Biomaterialâ€Based Approaches to Address Vein Graft and Hemodialysis Access Failures. Macromolecular Rapid Communications, 2016, 37, 1860-1880.	2.0	9
63	Biomimetic Microstructure Morphology in Electrospun Fiber Mats is Critical for Maintaining Healthy Cardiomyocyte Phenotype. Cellular and Molecular Bioengineering, 2016, 9, 107-115.	1.0	8
64	MG-63 Cell Proliferation with Static or Dynamic Compressive Stimulation on an Auxetic PLGA Scaffold. International Journal of Polymer Science, 2017, 2017, 1-6.	1.2	8
65	Tracheal reconstruction with a free vascularized myofascial flap: preclinical investigation in a porcine model to human clinical application. Scientific Reports, 2017, 7, 10022.	1.6	8
66	Sprayable nanomicelle hydrogels and inflammatory bowel disease patient cell chips for development of intestinal lesion-specific therapy. Bioactive Materials, 2022, 18, 433-445.	8.6	8
67	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
68	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
69	Dilationâ€Responsive Microshape Programing Prevents Vascular Graft Stenosis. Small, 2021, 17, e2007297.	5.2	7
70	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
71	Three-Dimensionally Printed Breast Reconstruction Devices Facilitate Nanostructure Surface-Guided Healthy Lipogenesis. ACS Biomaterials Science and Engineering, 2019, 5, 4962-4969.	2.6	6
72	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

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73	Cellâ€Membraneâ€Derived Nanoparticles with Notchâ€1 Suppressor Delivery Promote Hypoxic Cell–Cell Packing and Inhibit Angiogenesis Acting as a Twoâ€Edged Sword. Advanced Materials, 2021, 33, e2101558.	11.1	6
74	Liposomal Entrapment of Cefoxitin to Improve Cellular Viability and Function in Human Saphenous Veins. Artificial Organs, 2003, 27, 623-630.	1.0	5
75	Femtosecond laser-patterned nanopore arrays for surface-mediated peptide treatment. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 11-14.	1.7	5
76	Copolymerâ€Mediated Cell Aggregation Promotes a Proangiogenic Stem Cell Phenotype In Vitro and In Vivo. Advanced Healthcare Materials, 2016, 5, 2866-2871.	3.9	5
77	ROS-Responsive Biomaterial Design for Medical Applications. Advances in Experimental Medicine and Biology, 2018, 1064, 237-251.	0.8	5
78	Anti-atherosclerotic vaccination against <i>Porphyromonas gingivalis</i> as a potential comparator of statin in mice. PeerJ, 2021, 9, e11293.	0.9	5
79	Quenching Epigenetic Drug Resistance Using Antihypoxic Microparticles in Glioblastoma Patientâ€Derived Chips. Advanced Healthcare Materials, 2021, , 2102226.	3.9	5
80	Microneedle Vascular Couplers with Heparin-Immobilized Surface Improve Suture-Free Anastomosis Performance. ACS Biomaterials Science and Engineering, 2018, 4, 3848-3853.	2.6	4
81	Antibacterial Effect of Antibiotic Solution on Cellular Viability in Canine Veins. Artificial Organs, 2001, 25, 490-494.	1.0	3
82	Material considerations for optical interfacing to the nervous system. MRS Bulletin, 2012, 37, 599-605.	1.7	3
83	Synergistic Adhesiveness of Fibronectin with PHSRN Peptide in Gelatin Mixture Promotes the Therapeutic Potential of Human ES-Derived MSCs. Cellular and Molecular Bioengineering, 2020, 13, 73-86.	1.0	3
84	Cancer Patient Tissueoid with Selfâ€Homing Nanoâ€Targeting of Metabolic Inhibitor. Advanced Science, 2021, 8, 2102640.	5.6	3
85	Porcine As a Training Module for Head and Neck Microvascular Reconstruction. Journal of Visualized Experiments, 2018, , .	0.2	2
86	Catalytic microgelators for decoupled control of gelation rate and rigidity of the biological gels. Journal of Controlled Release, 2020, 317, 166-180.	4.8	2
87	External Selfâ€Closing Tube to Occlude a Vessel Gradually as a Therapeutic Means of Portosystemic Shunt. Advanced Therapeutics, 2020, 3, 2000039.	1.6	2
88	Nanotheranostics of Preâ€Stenotic Vessels By Target Touchâ€On Signaling of Peptide Navigator. Advanced Functional Materials, 2022, 32, .	7.8	1
89	Design of Polymeric Culture Substrates to Promote Proangiogenic Potential of Stem Cells. Macromolecular Bioscience, 2018, 18, 1700340.	2.1	0
90	Selfâ€Enclosable External Support: Dilationâ€Responsive Microshape Programing Prevents Vascular Graft Stenosis (Small 18/2021). Small, 2021, 17, 2170083.	5.2	0

#	Article	IF	CITATIONS
91	Cellâ€Membraneâ€Derived Nanoparticles with Notchâ€l Suppressor Delivery Promote Hypoxic Cell–Cell Packing and Inhibit Angiogenesis Acting as a Twoâ€Edged Sword (Adv. Mater. 40/2021). Advanced Materials, 2021, 33, 2170312.	11.1	0
92	Cardiac ECM Structureâ€Mimetic Electrospun Scaffolds Reinstate Healthy Cardiomyocyte Phenotype. FASEB Journal, 2015, 29, 946.10.	0.2	0

Nanotheranostics of Preâ€Stenotic Vessels By Target Touchâ€On Signaling of Peptide Navigator (Adv.) Tj ETQq1 1 0.784314 rgBT /Ov