

# Young Min Shin

## List of Publications by Year in descending order

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64  
papers

2,549  
citations

218592

26  
h-index

197736

49  
g-index

65  
all docs

65  
docs citations

65  
times ranked

4128  
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials from Mussel-Inspired Chemistry for Cell and Tissue Engineering Applications. <i>Biomacromolecules</i> , 2015, 16, 2541-2555.	2.6	248
2	Current progress in application of polymeric nanofibers to tissue engineering. <i>Nano Convergence</i> , 2019, 6, 36.	6.3	188
3	Mussel-inspired surface modification of poly(L-lactide) electrospun fibers for modulation of osteogenic differentiation of human mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 91, 189-197.	2.5	179
4	Polydopamine-mediated immobilization of multiple bioactive molecules for the development of functional vascular graft materials. <i>Biomaterials</i> , 2012, 33, 8343-8352.	5.7	155
5	The Development of Genipin- $\epsilon$ -Crosslinked Poly(caprolactone) (PCL)/Gelatin Nanofibers for Tissue Engineering Applications. <i>Macromolecular Bioscience</i> , 2010, 10, 91-100.	2.1	153
6	In Situ Forming Hydrogels Based on Tyramine Conjugated 4-Arm-PPO-PEO via Enzymatic Oxidative Reaction. <i>Biomacromolecules</i> , 2010, 11, 706-712.	2.6	151
7	Mussel-Inspired Immobilization of Vascular Endothelial Growth Factor (VEGF) for Enhanced Endothelialization of Vascular Grafts. <i>Biomacromolecules</i> , 2012, 13, 2020-2028.	2.6	142
8	Transplantation of mesenchymal stem cells within a poly(lactide- $\epsilon$ -caprolactone) scaffold improves cardiac function in a rat myocardial infarction model. <i>European Journal of Heart Failure</i> , 2009, 11, 147-153.	2.9	135
9	Modulation of Spreading, Proliferation, and Differentiation of Human Mesenchymal Stem Cells on Gelatin-Immobilized Poly(L-lactide- $\epsilon$ -caprolactone) Substrates. <i>Biomacromolecules</i> , 2008, 9, 1772-1781.	2.6	89
10	Time-dependent mussel-inspired functionalization of poly(L-lactide-co- $\epsilon$ -caprolactone) substrates for tunable cell behaviors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 87, 79-87.	2.5	89
11	Hybrid-spheroids incorporating ECM like engineered fragmented fibers potentiate stem cell function by improved cell/cell and cell/ECM interactions. <i>Acta Biomaterialia</i> , 2017, 64, 161-175.	4.1	66
12	Experimental Tracheal Replacement Using 3-dimensional Bioprinted Artificial Trachea with Autologous Epithelial Cells and Chondrocytes. <i>Scientific Reports</i> , 2019, 9, 2103.	1.6	59
13	Stem cell spheroids incorporating fibers coated with adenosine and polydopamine as a modular building blocks for bone tissue engineering. <i>Biomaterials</i> , 2020, 230, 119652.	5.7	49
14	Characterization of hydroxyapatite-coated bacterial cellulose scaffold for bone tissue engineering. <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 948-955.	1.4	48
15	Tissue Engineering and Regenerative Medicine 2017: A Year in Review. <i>Tissue Engineering - Part B: Reviews</i> , 2018, 24, 327-344.	2.5	47
16	Surface modification of electrospun poly(L-lactide-co- $\epsilon$ -caprolactone) fibrous meshes with a RGD peptide for the control of adhesion, proliferation and differentiation of the preosteoblastic cells. <i>Macromolecular Research</i> , 2010, 18, 472-481.	1.0	44
17	Fabrication of in vitro 3D mineralized tissue by fusion of composite spheroids incorporating biomineral-coated nanofibers and human adipose-derived stem cells. <i>Acta Biomaterialia</i> , 2018, 74, 464-477.	4.1	44
18	Microchannel network hydrogel induced ischemic blood perfusion connection. <i>Nature Communications</i> , 2020, 11, 615.	5.8	43

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19	Engineering an aligned endothelial monolayer on a topologically modified nanofibrous platform with a micropatterned structure produced by femtosecond laser ablation. <i>Journal of Materials Chemistry B</i> , 2017, 5, 318-328.	2.9	42
20	Development of a Shape-Memory Tube to Prevent Vascular Stenosis. <i>Advanced Materials</i> , 2019, 31, e1904476.	11.1	38
21	Effect of immobilized collagen type IV on biological properties of endothelial cells for the enhanced endothelialization of synthetic vascular graft materials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 134, 196-203.	2.5	35
22	Transfer Printing of Cell Layers with an Anisotropic Extracellular Matrix Assembly using Cell-Interactive and Thermosensitive Hydrogels. <i>Advanced Functional Materials</i> , 2012, 22, 4060-4069.	7.8	33
23	Bio-Inspired Immobilization of Cell-Adhesive Ligands on Electrospun Nanofibrous Patches for Cell Delivery. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 555-564.	1.7	32
24	Mussel adhesive protein inspired coatings on temperature-responsive hydrogels for cell sheet engineering. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6012-6022.	2.9	29
25	Implantable Vascularized Liver Chip for Cross-Validation of Disease Treatment with Animal Model. <i>Advanced Functional Materials</i> , 2019, 29, 1900075.	7.8	28
26	Synergistic Effect of Dual-Functionalized Fibrous Scaffold with BCP and RGD Containing Peptide for Improved Osteogenic Differentiation. <i>Macromolecular Bioscience</i> , 2014, 14, 1190-1198.	2.1	27
27	Enhancement of cardiac myoblast responses onto electrospun PLCL fibrous matrices coated with polydopamine for gelatin immobilization. <i>Macromolecular Research</i> , 2011, 19, 835-842.	1.0	23
28	Graded functionalization of biomaterial surfaces using mussel-inspired adhesive coating of polydopamine. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 546-556.	2.5	23
29	Biofabrication and application of decellularized bone extracellular matrix for effective bone regeneration. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 83, 323-332.	2.9	22
30	Promotion of human mesenchymal stem cell differentiation on bioresorbable polycaprolactone/biphasic calcium phosphate composite scaffolds for bone tissue engineering. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 341-349.	1.4	20
31	Engineered ECM-like microenvironment with fibrous particles for guiding 3D-encapsulated hMSC behaviours. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2732-2741.	2.9	20
32	Extracellular matrix-inspired BMP-2-delivering biodegradable fibrous particles for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8375-8382.	2.9	20
33	Hormone autocrination by vascularized hydrogel delivery of ovary spheroids to rescue ovarian dysfunctions. <i>Science Advances</i> , 2021, 7, .	4.7	19
34	Advanced capability of radially aligned fibrous scaffolds coated with polydopamine for guiding directional migration of human mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8725-8737.	2.9	18
35	Release Kinetics and in vitro Bioactivity of Basic Fibroblast Growth Factor: Effect of the Thickness of Fibrous Matrices. <i>Macromolecular Bioscience</i> , 2011, 11, 122-130.	2.1	17
36	Radiation-induced biomimetic modification of dual-layered nano/microfibrous scaffolds for vascular tissue engineering. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 118-125.	1.4	15

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37	Antiatherogenic Effect of Stem Cell Nanovesicles Targeting Disturbed Flow Sites. <i>Small</i> , 2020, 16, e2000012.	5.2	14
38	Preparation and characterization of temperature-sensitive poly(N-isopropylacrylamide)-g-poly(L-lactide-co-ε-caprolactone) nanofibers. <i>Macromolecular Research</i> , 2008, 16, 139-148.	1.0	13
39	Direct Control of Stem Cell Behavior Using Biomaterials and Genetic Factors. <i>Stem Cells International</i> , 2018, 2018, 1-17.	1.2	13
40	Reconstruction of Vascular Structure with Multicellular Components using Cell Transfer Printing Methods. <i>Advanced Healthcare Materials</i> , 2014, 3, 1465-1474.	3.9	12
41	Facile Cell Sheet Harvest and Translocation Mediated by a Thermally Expandable Hydrogel with Controlled Cell Adhesion. <i>Advanced Healthcare Materials</i> , 2016, 5, 2320-2324.	3.9	12
42	Agglomeration of human dermal fibroblasts with ECM mimicking nano-fragments and their effects on proliferation and cell/ECM interactions. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 80-91.	2.9	12
43	Oxygen-dependent generation of a graded polydopamine coating on nanofibrous materials for controlling stem cell functions. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8865-8878.	2.9	8
44	Polydopamine-assisted one-step modification of nanofiber surfaces with adenosine to tune the osteogenic differentiation of mesenchymal stem cells and the maturation of osteoclasts. <i>Biomaterials Science</i> , 2020, 8, 2825-2839.	2.6	8
45	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
46	Dilation-Responsive Microshape Programming Prevents Vascular Graft Stenosis. <i>Small</i> , 2021, 17, e2007297.	5.2	7
47	Cell-Membrane-Derived Nanoparticles with Notch1 Suppressor Delivery Promote Hypoxic Cell Cell Packing and Inhibit Angiogenesis Acting as a Two-Edged Sword. <i>Advanced Materials</i> , 2021, 33, e2101558.	11.1	6
48	In vitro and in vivo characterization of a coronary stent coated with an elastic biodegradable polymer for the sustained release of paclitaxel. <i>Macromolecular Research</i> , 2009, 17, 1039-1042.	1.0	5
49	ROS-Responsive Biomaterial Design for Medical Applications. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1064, 237-251.	0.8	5
50	Quenching Epigenetic Drug Resistance Using Antihypoxic Microparticles in Glioblastoma Patient-Derived Chips. <i>Advanced Healthcare Materials</i> , 2021, , 2102226.	3.9	5
51	A reliable porcine coronary model of chronic total occlusion using copper wire stents and bioabsorbable levo-poly(lactide) polymer. <i>Journal of Cardiology</i> , 2012, 60, 443-447.	0.8	4
52	Modulation of human mesenchymal stem cell survival on electrospun mesh with co-immobilized epithelial growth factor and gelatin. <i>RSC Advances</i> , 2015, 5, 55948-55956.	1.7	4
53	Microneedle Vascular Couplers with Heparin-Immobilized Surface Improve Suture-Free Anastomosis Performance. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3848-3853.	2.6	4

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55	Directional Cell Migration Guide for Improved Tissue Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1249, 131-140.	0.8	4
56	Physicochemical characterization of gelatin-immobilized, acrylic acid-bacterial cellulose nanofibers as cell scaffolds using gamma-irradiation. <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 942-947.	1.4	3
57	ê°ëSñ,, ì;°i,-ì-•îí•œ ì;°i§ê³µí•™ì§© ì•CEê,î,° ë,ë...,,-ìœî ë¶,,í'í-¥. <i>Tissue Engineering and Regenerative Medicine</i> , 2014, 11, 164-71.		
58	Characterization of Microbial Fermented Cellulose Porous Foam Prepared by Radiation Treatment. <i>Hangug Hwangyeong Saengmul Haghoeji</i> , 2013, 31, 302-307.	0.1	1
59	Development of Acrylic Acid Grafted Polycaprolactone (PCL)/Biphasic Calcium Phosphate (BCP) Nanofibers for Bone Tissue Engineering Using Gamma-Irradiation. <i>Porrime</i> , 2015, 39, 418-425.	0.0	1
60	Nanotheranostics of Preâ€Stenotic Vessels By Target Touchâ€On Signaling of Peptide Navigator. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	1
61	Properties of herbal extracts against<i>Propionibacterium acnes</i> for biomedical application. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
62	Selfâ€Enclosable External Support: Dilationâ€Responsive Microshape Programing Prevents Vascular Graft Stenosis (Small 18/2021). <i>Small</i> , 2021, 17, 2170083.	5.2	0
63	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
64	Nanotheranostics of Preâ€Stenotic Vessels By Target Touchâ€On Signaling of Peptide Navigator (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10	7.8	0