

Dong Sung Kim

List of Publications by Year in descending order

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58
papers

1,091
citations

394421

19
h-index

454955

30
g-index

58
all docs

58
docs citations

58
times ranked

1666
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in engineering microparticles and their nascent utilization in biomedical delivery and diagnostic applications. <i>Lab on A Chip</i> , 2017, 17, 591-613.	6.0	107
2	Electrolyte-Assisted Electrospinning for a Self-Assembled, Free-Standing Nanofiber Membrane on a Curved Surface. <i>Advanced Materials</i> , 2015, 27, 1682-1687.	21.0	70
3	Nanotopography Promotes Pancreatic Differentiation of Human Embryonic Stem Cells and Induced Pluripotent Stem Cells. <i>ACS Nano</i> , 2016, 10, 3342-3355.	14.6	53
4	Sinusoidal wavy surfaces for curvature-guided migration of T lymphocytes. <i>Biomaterials</i> , 2015, 51, 151-160.	11.4	52
5	Ultra-thin, aligned, free-standing nanofiber membranes to recapitulate multi-layered blood vessel/tissue interface for leukocyte infiltration study. <i>Biomaterials</i> , 2018, 169, 22-34.	11.4	39
6	A collagen gel-coated, aligned nanofiber membrane for enhanced endothelial barrier function. <i>Scientific Reports</i> , 2019, 9, 14915.	3.3	39
7	Direct fabrication of spatially patterned or aligned electrospun nanofiber mats on dielectric polymer surfaces. <i>Chemical Engineering Journal</i> , 2018, 335, 712-719.	12.7	38
8	Bulk poly(<i>N</i> -isopropylacrylamide) (PNIPAAm) thermoresponsive cell culture platform: toward a new horizon in cell sheet engineering. <i>Biomaterials Science</i> , 2019, 7, 2277-2287.	5.4	38
9	One-Step Microfluidic Synthesis of Janus Microhydrogels with Anisotropic Thermo-Responsive Behavior and Organophilic/Hydrophilic Loading Capability. <i>Langmuir</i> , 2013, 29, 15137-15141.	3.5	36
10	Hydrogel-Assisted Electrospinning for Fabrication of a 3D Complex Tailored Nanofiber Macrostructure. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51212-51224.	8.0	36
11	Role of Grounded Liquid Collectors in Precise Patterning of Electrospun Nanofiber Mats. <i>Langmuir</i> , 2018, 34, 284-290.	3.5	32
12	Enhanced osteogenic fate and function of MC3T3-E1 cells on nanoengineered polystyrene surfaces with nanopillar and nanopore arrays. <i>Biofabrication</i> , 2013, 5, 025007.	7.1	30
13	Mass-Produced Nano-Featured Polystyrene Surfaces for Regulating the Differentiation of Human Adipose-Derived Stem Cells. <i>Macromolecular Bioscience</i> , 2012, 12, 1480-1489.	4.1	29
14	Muscle-derived extracellular matrix on sinusoidal wavy surfaces synergistically promotes myogenic differentiation and maturation. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5530-5539.	5.8	28
15	Compressed collagen intermixed with cornea-derived decellularized extracellular matrix providing mechanical and biochemical niches for corneal stroma analogue. <i>Materials Science and Engineering C</i> , 2019, 103, 109837.	7.3	23
16	Collagen immobilization on ultra-thin nanofiber membrane to promote <i>in vitro</i> endothelial monolayer formation. <i>Journal of Tissue Engineering</i> , 2019, 10, 204173141988783.	5.5	22
17	Micropattern array with gradient size (μ PAGS) plastic surfaces fabricated by PDMS (polydimethylsiloxane) mold-based hot embossing technique for investigation of cell-surface interaction. <i>Biofabrication</i> , 2012, 4, 045006.	7.1	21
18	Constrained Adherable Area of Nanotopographic Surfaces Promotes Cell Migration through the Regulation of Focal Adhesion via Focal Adhesion Kinase/Rac1 Activation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14331-14341.	8.0	21

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19	Extremely high and elongated power output from a mechanical mediator-assisted triboelectric nanogenerator driven by the biomechanical energy. <i>Nano Energy</i> , 2019, 56, 851-858.	16.0	21
20	Electrolyte solution-assisted electrospray deposition for direct coating and patterning of polymeric nanoparticles on non-conductive surfaces. <i>Chemical Engineering Journal</i> , 2020, 379, 122318.	12.7	21
21	Nanoengineered Polystyrene Surfaces with Nanopore Array Pattern Alters Cytoskeleton Organization and Enhances Induction of Neural Differentiation of Human Adipose-Derived Stem Cells. <i>Tissue Engineering - Part A</i> , 2015, 21, 2115-2124.	3.1	19
22	Reconstruction of in vivo-like in vitro model: Enabling technologies of microfluidic systems for dynamic biochemical/mechanical stimuli. <i>Microelectronic Engineering</i> , 2019, 203-204, 6-24.	2.4	19
23	Versatile Fabrication of Size- and Shape-Controllable Nanofibrous Concave Microwells for Cell Spheroid Formation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37878-37885.	8.0	18
24	Development of an in vitro 3D choroidal neovascularization model using chemically induced hypoxia through an ultra-thin, free-standing nanofiber membrane. <i>Materials Science and Engineering C</i> , 2019, 104, 109964.	7.3	18
25	Nano Petri dishes: a new polystyrene platform for studying cell-nanoengineered surface interactions. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 055002.	2.6	17
26	Investigation of effective shear stress on endothelial differentiation of human adipose-derived stem cells with microfluidic screening device. <i>Microelectronic Engineering</i> , 2017, 174, 24-27.	2.4	17
27	Microfluidic-Assisted Fabrication of Flexible and Location Traceable Organo-Motor. <i>IEEE Transactions on Nanobioscience</i> , 2015, 14, 298-304.	3.3	16
28	A simple fabrication process for stepwise gradient wrinkle pattern with spatially-controlled wavelength based on sequential oxygen plasma treatment. <i>Microelectronic Engineering</i> , 2017, 176, 101-105.	2.4	16
29	Decellularized corneal lenticule embedded compressed collagen: toward a suturable collagenous construct for limbal reconstruction. <i>Biofabrication</i> , 2018, 10, 045001.	7.1	14
30	Thin and stretchable extracellular matrix (ECM) membrane reinforced by nanofiber scaffolds for developing in vitro barrier models. <i>Biofabrication</i> , 2022, 14, 025010.	7.1	14
31	One-step fabrication of a tunable nanofibrous well insert via electrolyte-assisted electrospinning. <i>RSC Advances</i> , 2017, 7, 38300-38306.	3.6	13
32	Surface-tailored graphene channels. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	7.9	12
33	Metalâ€“Electrolyte Solution Dualâ€“Mode Electrospinning Process for In Situ Fabrication of Electrospun Bilayer Membrane. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000571.	3.7	10
34	Rapid harvesting of stem cell sheets by thermoresponsive bulk poly(<i>N</i> -isopropylacrylamide) (PNIPAAm) nanotopography. <i>Biomaterials Science</i> , 2020, 8, 5260-5270.	5.4	10
35	Improved chondrogenic performance with protective tracheal design of Chitosan membrane surrounding 3D-printed trachea. <i>Scientific Reports</i> , 2021, 11, 9258.	3.3	10
36	Facile Fabrication of Electrospun Nanofiber Membrane-Integrated PDMS Microfluidic Chip via Silver Nanowires-Uncured PDMS Adhesive Layer. <i>ACS Macro Letters</i> , 2021, 10, 965-970.	4.8	10

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37	Multiplex recreation of human intestinal morphogenesis on a multi-well insert platform by basolateral convective flow. Lab on A Chip, 2021, 21, 3316-3327.	6.0	10
38	A capillary-based preconcentration device by using Ion Concentration Polarization through cation permselective membrane coating. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1467-1471.	2.2	8
39	A programmable powerful and ultra-fast water-driven soft actuator inspired by the mutable collagenous tissue of the sea cucumber. Journal of Materials Chemistry A, 2021, 9, 15937-15947.	10.3	8
40	Ultra-stiff compressed collagen for corneal perforation patch graft realized by in situ photochemical crosslinking. Biofabrication, 2020, 12, 045030.	7.1	8
41	Grayscale mask-assisted photochemical crosslinking for a dense collagen construct with stiffness gradient. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 1000-1009.	3.4	7
42	Direct Fabrication of Freestanding and Patterned Nanoporous Junctions in a 3D Micro-Nanofluidic Device for Ion-Selective Transport. Small, 2020, 16, 2000998.	10.0	7
43	Physically microstriped-nanoengineered polystyrene surface (PMS-NPS) for regulating cell attachment and alignment fabricated by nano-injection molding. Microelectronic Engineering, 2016, 158, 11-15.	2.4	6
44	A deep and permeable nanofibrous oval-shaped microwell array for the stable formation of viable and functional spheroids. Biofabrication, 2021, 13, 035050.	7.1	6
45	Microfluidic synthesis of thermo-responsive poly(<i>N</i> -isopropylacrylamide)-poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overloc Microengineering, 2014, 24, 085001.	2.6	5
46	Stabilizing Coacervate by Microfluidic Engulfment Induced by Controlled Interfacial Energy. Biomacromolecules, 2020, 21, 930-938.	5.4	5
47	Arterial Internal Elastic Lamina-Inspired Membrane for Providing Biochemical and Structural Cues in Developing Artery-on-a-Chip. ACS Macro Letters, 2021, 10, 1398-1403.	4.8	5
48	Perichondrium-inspired permeable nanofibrous tube well promoting differentiation of hiPSC-derived pellet toward hyaline-like cartilage pellet. Biofabrication, 2021, 13, 045015.	7.1	4
49	Robust Topographical Micro-Patterning of Nanofibrillar Collagen Gel by In Situ Photochemical Crosslinking-Assisted Collagen Embossing. Nanomaterials, 2020, 10, 2574.	4.1	4
50	Promoted migration of fibroblast cells on low aspect ratio isotropic nanopore surface by reduced maturation of focal adhesion at peripheral region. Colloids and Surfaces B: Biointerfaces, 2020, 195, 111229.	5.0	3
51	Enhanced Differentiation Capacity and Transplantation Efficacy of Insulin-Producing Cell Clusters from Human iPSCs Using Permeable Nanofibrous Microwell-Arrayed Membrane for Diabetes Treatment. Pharmaceutics, 2022, 14, 400.	4.5	3
52	Investigation of Effects of Electrospinning Parameters on Transcription Quality of Nanofibrous Bifurcated-Tubular Scaffold. Macromolecular Materials and Engineering, 2022, 307, .	3.6	3
53	Synthesis of Poly(<i>N</i> -isopropylacrylamide) Janus Microhydrogels for Anisotropic Thermo-responsiveness and Organophilic/Hydrophilic Loading Capability. Journal of Visualized Experiments, 2016, , 52813.	0.3	2
54	Dual-mode reconfigurable focusing using the interface of aqueous and dielectric liquids. Lab on A Chip, 2017, 17, 4031-4039.	6.0	2

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55	Micro/Nano Dual-Scale Crossed Sinusoidal Wavy Patterns for Synergistic Promotion of Proliferation and Endothelial Differentiation of Human Adipose-Derived Stem Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901983.	3.7	2
56	Multi-scale Fabrication Techniques of Collagen Hydrogel for Developing Physiological 3D In vitro Barrier Model. <i>International Journal of Precision Engineering and Manufacturing</i> , 2022, 23, 227-254.	2.2	2
57	Aquatic flower-inspired cell culture platform with simplified medium exchange process for facilitating cell-surface interaction studies. <i>Biomedical Microdevices</i> , 2016, 18, 3.	2.8	1
58	Electrospun random/aligned hybrid nanofiber mat for development of multi-layered cardiac muscle patch. , 2018, , .		1