Li-Hsin Han

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35 papers	1,589 citations	18 h-index	39 g-index
41 ext. papers	1,938 ext. citations	9 avg, IF	4.72 L-index

#	Paper	IF	Citations
35	Modeling Physiological Events in 2D vs. 3D Cell Culture. *Physiology*, **2017**, 32, 266-277	9.8	617
34	Three-Dimensional Polymer Constructs Exhibiting a Tunable Negative Poisson's Ratio. *Advanced Functional Materials*, **2011**, 21, 2712-2720	15.6	111
33	Solid freeform fabrication of designer scaffolds of hyaluronic acid for nerve tissue engineering. *Biomedical Microdevices*, **2011**, 13, 983-93	3.7	100
32	Projection Microfabrication of Three-Dimensional Scaffolds for Tissue Engineering. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2008**, 130,	3.3	78
31	Dynamic tissue engineering scaffolds with stimuli-responsive macroporosity formation. *Biomaterials*, **2013**, 34, 4251-8	15.6	70
30	The effects of interactive mechanical and biochemical niche signaling on osteogenic differentiation of adipose-derived stem cells using combinatorial hydrogels. *Acta Biomaterialia*, **2013**, 9, 5475-83	10.8	63
29	Fabrication of three-dimensional scaffolds for heterogeneous tissue engineering. *Biomedical Microdevices*, **2010**, 12, 721-5	3.7	63
28	Large-area patterning of a solution-processable organic semiconductor to reduce parasitic leakage and off currents in thin-film transistors. *Applied Physics Letters*, **2007**, 90, 244103	3.4	53
27	Chondrogenic differentiation of adipose-derived stromal cells in combinatorial hydrogels containing cartilage matrix proteins with decoupled mechanical stiffness. *Tissue Engineering - Part A* , **2014**, 20, 2131-9	3.9	52
26	Microribbon-Like Elastomers for Fabricating Macroporous and Highly Flexible Scaffolds that Support Cell Proliferation in 3D. *Advanced Functional Materials*, **2013**, 23, 346-358	15.6	47
25	A facile method to fabricate hydrogels with microchannel-like porosity for tissue engineering. *Tissue Engineering - Part C: Methods*, **2014**, 20, 169-76	2.9	38
24	Microfluidic Synthesis of Biodegradable Polyethylene-Glycol Microspheres for Controlled Delivery of Proteins and DNA Nanoparticles. *ACS Biomaterials Science and Engineering*, **2015**, 1, 157-165	5.5	29
23	Photo-crosslinkable PEG-based microribbons for forming 3D macroporous scaffolds with decoupled niche properties. *Advanced Materials*, **2014**, 26, 1757-62	24	29
22	Gelatin-Based Microribbon Hydrogels Accelerate Cartilage Formation by Mesenchymal Stem Cells in Three Dimensions. *Tissue Engineering - Part A*, **2018**, 24, 1631-1640	3.9	27
21	Winner of the Young Investigator Award of the Society for Biomaterials at the 10th World Biomaterials Congress, May 17-22, 2016, Montreal QC, Canada: Microribbon-based hydrogels accelerate stem cell-based bone regeneration in a mouse critical-size cranial defect model. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 1324-31	5.4	24
20	4D printing of self-folding and cell-encapsulating 3D microstructures as scaffolds for tissue-engineering applications. *Biofabrication*, **2020**, 12, 045018	10.5	23
19	Modulating polymer chemistry to enhance non-viral gene delivery inside hydrogels with tunable matrix stiffness. *Biomaterials*, **2013**, 34, 9657-65	15.6	22

18	Wireless bimorph micro-actuators by pulsed laser heating. *Sensors and Actuators A: Physical*, **2005**, 121, 35-43	3.9	19
17	Mediation of Cartilage Matrix Degeneration and Fibrillation by Decorin in Post-traumatic Osteoarthritis. *Arthritis and Rheumatology*, **2020**, 72, 1266-1277	9.5	17
16	Modulating stem cell-chondrocyte interactions for cartilage repair using combinatorial extracellular matrix-containing hydrogels. *Journal of Materials Chemistry B*, **2016**, 4, 7641-7650	7.3	14
15	Three-dimensional selective growth of nanoparticles on a polymer microstructure. *Nanotechnology*, **2009**, 20, 285312	3.4	14
14	Regulating Mechanotransduction in Three Dimensions using Sub-Cellular Scale, Crosslinkable Fibers of Controlled Diameter, Stiffness, and Alignment. *Advanced Functional Materials*, **2019**, 29, 1808967	15.6	13
13	Integrated Two-Photon Polymerization With Nanoimprinting for Direct Digital Nanomanufacturing. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2010**, 132,	3.3	12
12	Light-powered micromotor driven by geometry-assisted, asymmetric photon-heating and subsequent gas convection. *Applied Physics Letters*, **2010**, 96, 213509	3.4	12
11	Tuning the absorptions of Au nanospheres on a microshell by photo-deformation. *Nanotechnology*, **2006**, 17, 4600-5	3.4	8
10	Role of Surfactant in Evaporation and Deposition of Bisolvent Biopolymer Droplets. *Langmuir*, **2019**, 35, 12773-12781	4	7
9	Co-release of cells and polymeric nanoparticles from sacrificial microfibers enhances nonviral gene delivery inside 3D hydrogels. *Tissue Engineering - Part C: Methods*, **2014**, 20, 798-805	2.9	5
8	Winner of the Young Investigator Award of the Society for Biomaterials (USA) for 2016, 10th World Biomaterials Congress, May 17-22, 2016, Montreal QC, Canada: Aligned microribbon-like hydrogels for guiding three-dimensional smooth muscle tissue regeneration. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 1064-71	5.4	5
7	Tissue Engineering: Microribbon-Like Elastomers for Fabricating Macroporous and Highly Flexible Scaffolds that Support Cell Proliferation in 3D (Adv. Funct. Mater. 3/2013). *Advanced Functional Materials*, **2013**, 23, 266-266	15.6	4
6	Light-Powered Micromotor: Design, Fabrication, and Mathematical Modeling. *Journal of Microelectromechanical Systems*, **2011**, 20, 487-496	2.5	4
5	Deciphering, Designing, and Realizing Self-Folding Biomimetic Microstructures Using a Mass-Spring Model and Inkjet-Printed, Self-Folding Hydrogels. *Advanced Functional Materials*, **2020**, 30, 2003959	15.6	4
4	Analytical and Experimental Investigations of Electromagnetic Field Enhancement Among Nanospheres With Varying Spacing. *Journal of Heat Transfer*, **2009**, 131,	1.8	2
3	Fabricating a new heart: One step closer to reality. *Science Translational Medicine*, **2019**, 11, eaax4870	17.5	2
2	Fluorinated colloidal emulsion of photochangeable rheological behavior as a sacrificial agent to fabricate organic, three-dimensional microstructures. *Langmuir*, **2010**, 26, 6108-10	4	1
1	Engineering Mechanical, Biochemical, and Topographical Niche Cues by Photocrosslinkable, Microribbon-Like Hydrogels **2016**, 249-266		