

# Li-Hsin Han

## List of Publications by Year in Descending Order

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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	Mediation of Cartilage Matrix Degeneration and Fibrillation by Decorin in Post-traumatic Osteoarthritis. <i>Arthritis and Rheumatology</i> , <b>2020</b> , 72, 1266-1277	9.5	17
34	4D printing of self-folding and cell-encapsulating 3D microstructures as scaffolds for tissue-engineering applications. <i>Biofabrication</i> , <b>2020</b> , 12, 045018	10.5	23
33	Deciphering, Designing, and Realizing Self-Folding Biomimetic Microstructures Using a Mass-Spring Model and Inkjet-Printed, Self-Folding Hydrogels. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003959	15.6	4
32	Role of Surfactant in Evaporation and Deposition of Bisolvent Biopolymer Droplets. <i>Langmuir</i> , <b>2019</b> , 35, 12773-12781	4	7
31	Regulating Mechanotransduction in Three Dimensions using Sub-Cellular Scale, Crosslinkable Fibers of Controlled Diameter, Stiffness, and Alignment. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808967	15.6	13
30	Fabricating a new heart: One step closer to reality. <i>Science Translational Medicine</i> , <b>2019</b> , 11, eaax4870	17.5	2
29	Gelatin-Based Microribbon Hydrogels Accelerate Cartilage Formation by Mesenchymal Stem Cells in Three Dimensions. <i>Tissue Engineering - Part A</i> , <b>2018</b> , 24, 1631-1640	3.9	27
28	Modeling Physiological Events in 2D vs. 3D Cell Culture. <i>Physiology</i> , <b>2017</b> , 32, 266-277	9.8	617
27	Modulating stem cell-chondrocyte interactions for cartilage repair using combinatorial extracellular matrix-containing hydrogels. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 7641-7650	7.3	14
26	Engineering Mechanical, Biochemical, and Topographical Niche Cues by Photocrosslinkable, Microribbon-Like Hydrogels <b>2016</b> , 249-266		
25	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. <i>Journal of Biomedical Materials Research</i> , <b>2016</b> , 88, 100-101	5.4	5
24	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. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 1321-31	5.4	24
23	Microfluidic Synthesis of Biodegradable Polyethylene-Glycol Microspheres for Controlled Delivery of Proteins and DNA Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 157-165	5.5	29
22	Chondrogenic differentiation of adipose-derived stromal cells in combinatorial hydrogels containing cartilage matrix proteins with decoupled mechanical stiffness. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 2131-9	3.9	52
21	A facile method to fabricate hydrogels with microchannel-like porosity for tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , <b>2014</b> , 20, 169-76	2.9	38
20	Co-release of cells and polymeric nanoparticles from sacrificial microfibers enhances nonviral gene delivery inside 3D hydrogels. <i>Tissue Engineering - Part C: Methods</i> , <b>2014</b> , 20, 798-805	2.9	5
19	Photo-crosslinkable PEG-based microribbons for forming 3D macroporous scaffolds with decoupled niche properties. <i>Advanced Materials</i> , <b>2014</b> , 26, 1757-62	24	29

18	Dynamic tissue engineering scaffolds with stimuli-responsive macroporosity formation. <i>Biomaterials</i> , <b>2013</b> , 34, 4251-8	15.6	70
17	The effects of interactive mechanical and biochemical niche signaling on osteogenic differentiation of adipose-derived stem cells using combinatorial hydrogels. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 5475-83	10.8	63
16	Modulating polymer chemistry to enhance non-viral gene delivery inside hydrogels with tunable matrix stiffness. <i>Biomaterials</i> , <b>2013</b> , 34, 9657-65	15.6	22
15	Microribbon-Like Elastomers for Fabricating Macroporous and Highly Flexible Scaffolds that Support Cell Proliferation in 3D. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 346-358	15.6	47
14	Tissue Engineering: Microribbon-Like Elastomers for Fabricating Macroporous and Highly Flexible Scaffolds that Support Cell Proliferation in 3D (Adv. Funct. Mater. 3/2013). <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 266-266	15.6	4
13	Light-Powered Micromotor: Design, Fabrication, and Mathematical Modeling. <i>Journal of Microelectromechanical Systems</i> , <b>2011</b> , 20, 487-496	2.5	4
12	Solid freeform fabrication of designer scaffolds of hyaluronic acid for nerve tissue engineering. <i>Biomedical Microdevices</i> , <b>2011</b> , 13, 983-93	3.7	100
11	Three-Dimensional Polymer Constructs Exhibiting a Tunable Negative Poisson's Ratio. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2712-2720	15.6	111
10	Integrated Two-Photon Polymerization With Nanoimprinting for Direct Digital Nanomanufacturing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2010</b> , 132,	3.3	12
9	Light-powered micromotor driven by geometry-assisted, asymmetric photon-heating and subsequent gas convection. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 213509	3.4	12
8	Fluorinated colloidal emulsion of photochangeable rheological behavior as a sacrificial agent to fabricate organic, three-dimensional microstructures. <i>Langmuir</i> , <b>2010</b> , 26, 6108-10	4	1
7	Fabrication of three-dimensional scaffolds for heterogeneous tissue engineering. <i>Biomedical Microdevices</i> , <b>2010</b> , 12, 721-5	3.7	63
6	Analytical and Experimental Investigations of Electromagnetic Field Enhancement Among Nanospheres With Varying Spacing. <i>Journal of Heat Transfer</i> , <b>2009</b> , 131,	1.8	2
5	Three-dimensional selective growth of nanoparticles on a polymer microstructure. <i>Nanotechnology</i> , <b>2009</b> , 20, 285312	3.4	14
4	Projection Microfabrication of Three-Dimensional Scaffolds for Tissue Engineering. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2008</b> , 130,	3.3	78
3	Large-area patterning of a solution-processable organic semiconductor to reduce parasitic leakage and off currents in thin-film transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 244103	3.4	53
2	Tuning the absorptions of Au nanospheres on a microshell by photo-deformation. <i>Nanotechnology</i> , <b>2006</b> , 17, 4600-5	3.4	8
1	Wireless bimorph micro-actuators by pulsed laser heating. <i>Sensors and Actuators A: Physical</i> , <b>2005</b> , 121, 35-43	3.9	19

