

# Julian Thiele

## 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.

51  
papers

2,142  
citations

23  
h-index

46  
g-index

56  
ext. papers

2,420  
ext. citations

6.8  
avg. IF

4.96  
L-index

#	Paper	IF	Citations
51	Multiparametric Material Functionality of Microtissue-Based In Vitro Models as Alternatives to Animal Testing.. <i>Advanced Science</i> , <b>2022</b> , e2105319	13.6	2
50	Processing of fast-gelling hydrogel precursors in microfluidics by electrocoalescence of reactive species. <i>Soft Matter</i> , <b>2021</b> , 17, 10312-10321	3.6	1
49	Fabrication of Microfluidic Devices for Emulsion Formation by Microstereolithography. <i>Molecules</i> , <b>2021</b> , 26,	4.8	3
48	Flexible Materials for High-Resolution 3D Printing of Microfluidic Devices with Integrated Droplet Size Regulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 31086-31101	9.5	3
47	Embedment of Quantum Dots and Biomolecules in a Dipeptide Hydrogel Formed In Situ Using Microfluidics. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 6724-6732	16.4	11
46	Embedment of Quantum Dots and Biomolecules in a Dipeptide Hydrogel Formed In Situ Using Microfluidics. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 6798-6806	3.6	2
45	Combining Hydrophilic and Hydrophobic Materials in 3D Printing for Fabricating Microfluidic Devices with Spatial Wettability. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2100094	6.8	6
44	Rational Design of Flavonoid Production Routes Using Combinatorial and Precursor-Directed Biosynthesis. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 1823-1832	5.7	6
43	Cell-Free Protein Synthesis in Bifunctional Hyaluronan Microgels: A Strategy for In Situ Immobilization and Purification of His-Tagged Proteins. <i>ChemSystemsChem</i> , <b>2020</b> , 2, e2000020	3.1	1
42	Stretching and heating cells with light nonlinear photothermal cell rheology. <i>New Journal of Physics</i> , <b>2020</b> , 22, 085003	2.9	2
41	Cell-Free Protein Synthesis in Bifunctional Hyaluronan Microgels: A Strategy for In Situ Immobilization and Purification of His-Tagged Proteins. <i>ChemSystemsChem</i> , <b>2020</b> , 2, e1900058	3.1	7
40	A Non-Cytotoxic Resin for Micro-Stereolithography for Cell Cultures of HUVECs. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	11
39	Solvent-resistant microfluidic devices made from PFHDA resins by micro-stereolithography <b>2020</b> ,		2
38	Cell-free protein synthesis and immobilization of deGFP-MatB in polymer microgels for malonate-to-malonyl CoA conversion.. <i>RSC Advances</i> , <b>2020</b> , 10, 40588-40596	3.7	5
37	Microfluidic Fabrication of Click Chemistry-Mediated Hyaluronic Acid Microgels: A Bottom-Up Material Guide to Tailor a Microgel's Physicochemical and Mechanical Properties. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4
36	DNAzymes as Catalysts for L-Tyrosine and Amyloid $\beta$ Oxidation. <i>ACS Omega</i> , <b>2020</b> , 5, 7059-7064	3.9	6
35	Hyaluronan/collagen hydrogel matrices containing high-sulfated hyaluronan microgels for regulating transforming growth factor- $\beta$ . <i>Journal of Materials Science: Materials in Medicine</i> , <b>2019</b> , 30, 65	4.5	10

34	Mechanoresponsive Hydrogel Particles as a Platform for Three-Dimensional Force Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26307-26313	9.5	14
33	Multifunctional microfluidic devices from tailored photopolymer formulations <b>2019</b> ,		2
32	Multiphasic microgel-in-gel materials to recapitulate cellular mesoenvironments in vitro. <i>Biomaterials Science</i> , <b>2019</b> , 8, 101-108	7.4	12
31	Optimizing Process Parameters in Commercial Micro-Stereolithography for Forming Emulsions and Polymer Microparticles in Nonplanar Microfluidic Devices. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800408	6.8	23
30	Droplet-Assisted Microfluidic Fabrication and Characterization of Multifunctional Polysaccharide Microgels Formed by Multicomponent Reactions. <i>Polymers</i> , <b>2018</b> , 10,	4.5	23
29	Standardized microgel beads as elastic cell mechanical probes. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 6245-6261	7.3	51
28	Polymer Material Design by Microfluidics Inspired by Cell Biology and Cell-Free Biotechnology. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1600429	2.6	14
27	Mechanically Defined Microgels by Droplet Microfluidics. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1600418	2.6	20
26	Cell-Like Nanostructured Environments Alter Diffusion and Reaction Kinetics in Cell-Free Gene Expression. <i>ChemBioChem</i> , <b>2016</b> , 17, 228-32	3.8	12
25	Biocompatible fluorinated polyglycerols for droplet microfluidics as an alternative to PEG-based copolymer surfactants. <i>Lab on A Chip</i> , <b>2016</b> , 16, 65-9	7.2	55
24	Microfluidic alignment and trapping of 1D nanostructures by a simple fabrication route for single-nanowire field effect transistors. <i>RSC Advances</i> , <b>2015</b> , 5, 94702-94706	3.7	7
23	Biocompatible macro-initiators controlling radical retention in microfluidic on-chip photo-polymerization of water-in-oil emulsions. <i>Chemical Communications</i> , <b>2014</b> , 50, 112-4	5.8	35
22	Artificial microniches for probing mesenchymal stem cell fate in 3D. <i>Biomaterials Science</i> , <b>2014</b> , 2, 1661-1671	7.4	42
21	DNA-functionalized hydrogels for confined membrane-free in vitro transcription/translation. <i>Lab on A Chip</i> , <b>2014</b> , 14, 2651-6	7.2	36
20	An electro-coalescence chip for effective emulsion breaking in droplet microfluidics. <i>Lab on A Chip</i> , <b>2014</b> , 14, 2398-402	7.2	24
19	25th anniversary article: Designer hydrogels for cell cultures: a materials selection guide. <i>Advanced Materials</i> , <b>2014</b> , 26, 125-47	24	302
18	Vesicle budding from polymersomes templated by microfluidically prepared double emulsions. <i>Materials Horizons</i> , <b>2014</b> , 1, 96-101	14.4	24
17	Microfluidic Fabrication of Vesicles. <i>Advances in Transport Phenomena</i> , <b>2014</b> , 1-28		2

16	Probing cellular heterogeneity in cytokine-secreting immune cells using droplet-based microfluidics. <i>Lab on A Chip</i> , <b>2013</b> , 13, 4740-4	7.2	157
15	Anisotropic particles align perpendicular to the flow direction in narrow microchannels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 6706-11	11.5	116
14	Fabrication of microgel particles with complex shape via selective polymerization of aqueous two-phase systems. <i>Small</i> , <b>2012</b> , 8, 2356-60	11	98
13	Non-coalescence of oppositely charged droplets in pH-sensitive emulsions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 384-9	11.5	94
12	Double emulsions with controlled morphology by microgel scaffolding. <i>Lab on A Chip</i> , <b>2011</b> , 11, 3188-92	7.2	21
11	One-step formation of multiple emulsions in microfluidics. <i>Lab on A Chip</i> , <b>2011</b> , 11, 253-8	7.2	152
10	Early development drug formulation on a chip: fabrication of nanoparticles using a microfluidic spray dryer. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2362-8	7.2	35
9	Efficient encapsulation with plug-triggered drop formation. <i>Physical Review E</i> , <b>2011</b> , 84, 031502	2.4	12
8	Patterning microfluidic device wettability using flow confinement. <i>Lab on A Chip</i> , <b>2010</b> , 10, 1774-6	7.2	98
7	Preparation of monodisperse block copolymer vesicles via flow focusing in microfluidics. <i>Langmuir</i> , <b>2010</b> , 26, 6860-3	4	67
6	Smart microgel capsules from macromolecular precursors. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 6606-9	16.4	160
5	Droplet microfluidics for fabrication of non-spherical particles. <i>Macromolecular Rapid Communications</i> , <b>2010</b> , 31, 108-18	4.8	192
4	Fabrication of polymersomes using double-emulsion templates in glass-coated stamped microfluidic devices. <i>Small</i> , <b>2010</b> , 6, 1723-7	11	81
3	Characteristics of picoliter droplet dried residues as standards for direct analysis techniques. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 1967-77	7.8	43
2	Characterization of atmospheric aerosols using Synchrotron radiation total reflection X-ray fluorescence and Fe K-edge total reflection X-ray fluorescence-X-ray absorption near-edge structure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2008</b> , 63, 1489-1495	3.1	33
1	Standardized microgel beads as elastic cell mechanical probes		2