Julian Thiele

List of Publications by Year
in descending order

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54 papers	2,675 citations	257101 24 h-index	182168 51 g-index
56 all docs	56 docs citations	56 times ranked	4252 citing authors

#	Article	IF	Citations
1	25th Anniversary Article: Designer Hydrogels for Cell Cultures: A Materials Selection Guide. Advanced Materials, 2014, 26, 125-148.	11.1	368
2	Droplet Microfluidics for Fabrication of Nonâ€Spherical Particles. Macromolecular Rapid Communications, 2010, 31, 108-118.	2.0	208
3	Probing cellular heterogeneity in cytokine-secreting immune cells using droplet-based microfluidics. Lab on A Chip, 2013, 13, 4740.	3.1	204
4	One-step formation of multiple emulsions in microfluidics. Lab on A Chip, 2011, 11, 253-258.	3.1	189
5	Smart Microgel Capsules from Macromolecular Precursors. Journal of the American Chemical Society, 2010, 132, 6606-6609.	6.6	177
6	Anisotropic particles align perpendicular to the flow direction in narrow microchannels. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6706-6711.	3.3	145
7	Fabrication of Microgel Particles with Complex Shape via Selective Polymerization of Aqueous Twoâ€Phase Systems. Small, 2012, 8, 2356-2360.	5.2	121
8	Patterning microfluidic device wettability using flow confinement. Lab on A Chip, 2010, 10, 1774.	3.1	118
9	Non-coalescence of oppositely charged droplets in pH-sensitive emulsions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 384-389.	3.3	103
10	Fabrication of Polymersomes using Doubleâ€Emulsion Templates in Glassâ€Coated Stamped Microfluidic Devices. Small, 2010, 6, 1723-1727.	5.2	91
11	Standardized microgel beads as elastic cell mechanical probes. Journal of Materials Chemistry B, 2018, 6, 6245-6261.	2.9	78
12	Preparation of Monodisperse Block Copolymer Vesicles via Flow Focusing in Microfluidics. Langmuir, 2010, 26, 6860-6863.	1.6	75
13	Biocompatible fluorinated polyglycerols for droplet microfluidics as an alternative to PEG-based copolymer surfactants. Lab on A Chip, 2016, 16, 65-69.	3.1	74
14	Characteristics of Picoliter Droplet Dried Residues as Standards for Direct Analysis Techniques. Analytical Chemistry, 2008, 80, 1967-1977.	3.2	45
15	Artificial microniches for probing mesenchymal stem cell fate in 3D. Biomaterials Science, 2014, 2, 1661-1671.	2.6	45
16	DNA-functionalized hydrogels for confined membrane-free in vitro transcription/translation. Lab on A Chip, 2014, 14, 2651.	3.1	44
17	Biocompatible macro-initiators controlling radical retention in microfluidic on-chip photo-polymerization of water-in-oil emulsions. Chemical Communications, 2014, 50, 112-114.	2.2	43
18	Early development drug formulation on a chip: Fabrication of nanoparticles using a microfluidic spray dryer. Lab on A Chip, 2011, 11, 2362.	3.1	42

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19	Characterization of atmospheric aerosols using Synchroton radiation total reflection X-ray fluorescence and Fe K-edge total reflection X-ray fluorescence-X-ray absorption near-edge structure. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 1489-1495.	1.5	35
20	Optimizing Process Parameters in Commercial Microâ€Stereolithography for Forming Emulsions and Polymer Microparticles in Nonplanar Microfluidic Devices. Advanced Materials Technologies, 2019, 4, 1800408.	3.0	35
21	Droplet-Assisted Microfluidic Fabrication and Characterization of Multifunctional Polysaccharide Microgels Formed by Multicomponent Reactions. Polymers, 2018, 10, 1055.	2.0	32
22	Mechanically Defined Microgels by Droplet Microfluidics. Macromolecular Chemistry and Physics, 2017, 218, 1600418.	1.1	31
23	Vesicle budding from polymersomes templated by microfluidically prepared double emulsions. Materials Horizons, 2014, 1, 96-101.	6.4	29
24	An electro-coalescence chip for effective emulsion breaking in droplet microfluidics. Lab on A Chip, 2014, 14, 2398-2402.	3.1	29
25	Double emulsions with controlled morphology by microgel scaffolding. Lab on A Chip, 2011, 11, 3188.	3.1	23
26	Flexible Materials for High-Resolution 3D Printing of Microfluidic Devices with Integrated Droplet Size Regulation. ACS Applied Materials & Interfaces, 2021, 13, 31086-31101.	4.0	21
27	Multiphasicmicrogel-in-gelmaterials to recapitulate cellular mesoenvironmentsin vitro. Biomaterials Science, 2020, 8, 101-108.	2.6	20
28	A Non-Cytotoxic Resin for Micro-Stereolithography for Cell Cultures of HUVECs. Micromachines, 2020, 11, 246.	1.4	20
29	Embedment of Quantum Dots and Biomolecules in a Dipeptide Hydrogel Formed In Situ Using Microfluidics. Angewandte Chemie - International Edition, 2021, 60, 6724-6732.	7.2	20
30	Mechanoresponsive Hydrogel Particles as a Platform for Three-Dimensional Force Sensing. ACS Applied Materials & Interfaces, 2019, 11, 26307-26313.	4.0	19
31	Cellâ€Like Nanostructured Environments Alter Diffusion and Reaction Kinetics in Cellâ€Free Gene Expression. ChemBioChem, 2016, 17, 228-232.	1.3	18
32	Polymer Material Design by Microfluidics Inspired by Cell Biology and Cellâ€Free Biotechnology. Macromolecular Chemistry and Physics, 2017, 218, 1600429.	1.1	17
33	Rational Design of Flavonoid Production Routes Using Combinatorial and Precursor-Directed Biosynthesis. ACS Synthetic Biology, 2020, 9, 1823-1832.	1.9	17
34	Combining Hydrophilic and Hydrophobic Materials in 3D Printing for Fabricating Microfluidic Devices with Spatial Wettability. Advanced Materials Technologies, 2021, 6, 2100094.	3.0	15
35	Microfluidic Fabrication of Click Chemistry-Mediated Hyaluronic Acid Microgels: A Bottom-Up Material Guide to Tailor a Microgelâ€™s Physicochemical and Mechanical Properties. Polymers, 2020, 12, 1760.	2.0	14
36	Efficient encapsulation with plug-triggered drop formation. Physical Review E, 2011, 84, 031502.	0.8	13

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37	Hyaluronan/collagen hydrogel matrices containing high-sulfated hyaluronan microgels for regulating transforming growth factor-Î²1. Journal of Materials Science: Materials in Medicine, 2019, 30, 65.	1.7	13
38	Cellâ€Free Protein Synthesis in Bifunctional Hyaluronan Microgels: A Strategy for Inâ€…Situ Immobilization and Purification of Hisâ€Tagged Proteins. ChemSystemsChem, 2020, 2, e1900058.	1.1	11
39	Cell-free protein synthesis andin situimmobilization of deGFP-MatB in polymer microgels for malonate-to-malonyl CoA conversion. RSC Advances, 2020, 10, 40588-40596.	1.7	10
40	Fabrication of Microfluidic Devices for Emulsion Formation by Microstereolithography. Molecules, 2021, 26, 2817.	1.7	9
41	Microfluidic alignment and trapping of 1D nanostructures â€“ a simple fabrication route for single-nanowire field effect transistors. RSC Advances, 2015, 5, 94702-94706.	1.7	8
42	DNAzymes as Catalysts for <scp>l</scp>-Tyrosine and Amyloid Î² Oxidation. ACS Omega, 2020, 5, 7059-7064.	1.6	7
43	Multiparametric Material Functionality of Microtissueâ€Based InÂVitro Models as Alternatives to Animal Testing. Advanced Science, 2022, 9, e2105319.	5.6	6
44	PNIPAAm microgels with defined network architecture as temperature sensors in optical stretchers. Materials Advances, 2022, 3, 6179-6190.	2.6	5
45	Stretching and heating cells with lightâ€”nonlinear photothermal cell rheology. New Journal of Physics, 2020, 22, 085003.	1.2	4
46	Microfluidic Fabrication of Vesicles. Advances in Transport Phenomena, 2014, , 1-28.	0.5	3
47	Solvent-resistant microfluidic devices made from PFHDA resins by micro-stereolithography. , 2020, , .		3
48	Processing of fast-gelling hydrogel precursors in microfluidics by electrocoalescence of reactive species. Soft Matter, 2021, 17, 10312-10321.	1.2	3
49	Microfluidics-assisted synthesis and functionalization of monodisperse colloidal hydrogel particles for optomechanical biosensors. Journal of Materials Chemistry B, 2022, , .	2.9	3
50	Additive Soft Matter Design by UV-Induced Polymer Hydrogel Inter-Crosslinking. Gels, 2022, 8, 117.	2.1	3
51	Embedment of Quantum Dots and Biomolecules in a Dipeptide Hydrogel Formed In Situ Using Microfluidics. Angewandte Chemie, 2021, 133, 6798-6806.	1.6	2
52	Multifunctional microfluidic devices from tailored photopolymer formulations. , 2019, , .		2
53	Microfluidics. , 2019, , .		2
54	Cellâ€Free Protein Synthesis in Bifunctional Hyaluronan Microgels: A Strategy for Inâ€…Situ Immobilization and Purification of Hisâ€Tagged Proteins. ChemSystemsChem, 2020, 2, e2000020.	1.1	1