David A Weitz

List of Publications by Year
in descending order

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419	66,491	699 121	906 241
papers	citations	h-index	g-index

461	461	461	55755
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pickering emulsions stabilized by colloidal surfactants: Role of solid particles. Particuology, 2022, 64, 153-163.	2.0	72
2	Regulation of cell attachment, spreading, and migration by hydrogel substrates with independently tunable mesh size. Acta Biomaterialia, 2022, 141, 178-189.	4.1	14
3	Cell-Inspired Hydrogel Microcapsules with a Thin Oil Layer for Enhanced Retention of Highly Reactive Antioxidants. ACS Applied Materials & Interfaces, 2022, 14, 2597-2604.	4.0	7
4	A machine learning approach-based array sensor for rapidly predicting the mechanisms of action of antibacterial compounds. Nanoscale, 2022, 14, 3087-3096.	2.8	6
5	An outlook on microfluidics: the promise and the challenge. Lab on A Chip, 2022, 22, 530-536.	3.1	115
6	High-fidelity transfer of area-selective atomic layer deposition grown HfO2 through DNA origami-assisted nanolithography. Nano Research, 2022, 15, 5687-5694.	5.8	1
7	The correlation between cell and nucleus size is explained by an eukaryotic cell growth model. PLoS Computational Biology, 2022, 18, e1009400.	1.5	28
8	Nonlinear Phenomena in Microfluidics. Chemical Reviews, 2022, 122, 6921-6937.	23.0	34
9	Vimentin intermediate filaments and filamentous actin form unexpected interpenetrating networks that redefine the cell cortex. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115217119.	3.3	28
10	Dielectrophoretic Characterization of Dynamic Microcapsules and Their Magnetophoretic Manipulation. ACS Applied Materials & Interfaces, 2022, 14, 15765-15773.	4.0	4
11	Micro-ecology restoration of colonic inflammation by in-Situ oral delivery of antibody-laden hydrogel microcapsules. Bioactive Materials, 2022, 15, 305-315.	8.6	8
12	Correlation Tracking: Using simulations to interpolate highly correlated particle tracks. Physical Review E, 2022, 105, 044608.	0.8	0
13	Adsorption of Polar Species at Crude Oilâ€“Water Interfaces: the Chemoelastic Behavior. Langmuir, 2022, 38, 6523-6530.	1.6	7
14	Large-scale single-cell encapsulation in microgels through metastable droplet-templating combined with microfluidic-integration. Biofabrication, 2022, 14, 035015.	3.7	12
15	A high-throughput multiparameter screen for accelerated development and optimization of soluble genetically encoded fluorescent biosensors. Nature Communications, 2022, 13, .	5.8	39
16	High-throughput, single-microbe genomics with strain resolution, applied to a human gut microbiome. Science, 2022, 376, .	6.0	100
17	Line optical tweezers as controllable micromachines: techniques and emerging trends. Soft Matter, 2022, 18, 5359-5365.	1.2	8
18	Initial growth dynamics of 10Ânm nanobubbles in the graphene liquid cell. Applied Nanoscience (Switzerland), 2021, 11, 1-7.	1.6	17

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19	A New Ensemble Machine-Learning Framework for Searching Sweet Spots in Shale Reservoirs. SPE Journal, 2021, 26, 482-497.	1.7	68
20	Diverse Particle Carriers Prepared by Coâ€Precipitation and Phase Separation: Formation and Applications. ChemPlusChem, 2021, 86, 49-58.	1.3	26
21	Hydrogel Microcapsules with a Thin Oil Layer: Smart Triggered Release via Diverse Stimuli. Advanced Functional Materials, 2021, 31, 2009553.	7.8	23
22	The vortex-driven dynamics of droplets within droplets. Nature Communications, 2021, 12, 82.	5.8	26
23	Linear triglycerol-based fluorosurfactants show high potential for droplet-microfluidics-based biochemical assays. Soft Matter, 2021, 17, 7260-7267.	1.2	8
24	Single-Cell Transcriptomics Reveals a Heterogeneous Cellular Response to BK Virus Infection. Journal of Virology, 2021, 95, .	1.5	11
25	Ordered Mesoporous Microcapsules from Double Emulsion Confined Block Copolymer Self-Assembly. ACS Nano, 2021, 15, 3490-3499.	7.3	40
26	Anomalous mechanics of Zn ²⁺ -modified fibrin networks. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	14
27	Programmable Engineering of DNA-AuNP Encoders Integrated Multimodal Coupled Analysis for Precision Discrimination of Multiple Metal Ions. Nano Letters, 2021, 21, 2141-2148.	4.5	19
28	Sequencing-Based Protein Analysis of Single Extracellular Vesicles. ACS Nano, 2021, 15, 5631-5638.	7.3	61
29	Implications of Quenchingâ€toâ€Dequenching Switch in Quantitative Cell Uptake and Biodistribution of Dyeâ€Labeled Nanoparticles. Angewandte Chemie, 2021, 133, 15554-15563.	1.6	1
30	Implications of Quenchingâ€toâ€Dequenching Switch in Quantitative Cell Uptake and Biodistribution of Dyeâ€Labeled Nanoparticles. Angewandte Chemie - International Edition, 2021, 60, 15426-15435.	7.2	15
31	Hydrogel Microcapsules: Hydrogel Microcapsules with a Thin Oil Layer: Smart Triggered Release via Diverse Stimuli (Adv. Funct. Mater. 18/2021). Advanced Functional Materials, 2021, 31, 2170124.	7.8	0
32	Attractive Pickering Emulsion Gels. Advanced Materials, 2021, 33, e2102362.	11.1	78
33	Unexpected scaling of interstitial velocities with permeability due to polymer retention in porous media. Physical Review Fluids, 2021, 6, .	1.0	4
34	Dynamic Speckle Holography. Physical Review Letters, 2021, 127, 088003.	2.9	5
35	Emulsion Designer Using Microfluidic Threeâ€Dimensional Droplet Printing in Droplet. Small, 2021, 17, e2102579.	5.2	22
36	Tumorigenic mesenchymal clusters are less sensitive to moderate osmotic stresses due to low amounts of junctional E-cadherin. Scientific Reports, 2021, 11, 16279.	1.6	19

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37	Effects of Vimentin Intermediate Filaments on the Structure and Dynamics of InÂVitro Multicomponent Interpenetrating Cytoskeletal Networks. Physical Review Letters, 2021, 127, 108101.	2.9	15
38	Millifluidics, microfluidics, and nanofluidics: manipulating fluids at varying length scales. Materials Today Nano, 2021, 16, 100136.	2.3	51
39	Microchannel measurements of viscosity for both gases and liquids. Lab on A Chip, 2021, 21, 2805-2811.	3.1	8
40	Microfluidic Fabrication of Phase-Inverted Microcapsules with Asymmetric Shell Membranes with Graded Porosity. ACS Macro Letters, 2021, 10, 116-121.	2.3	7
41	Digital Microfluidic Thermal Control Chip-Based Multichannel Immunosensor for Noninvasively Detecting Acute Myocardial Infarction. Analytical Chemistry, 2021, 93, 15033-15041.	3.2	23
42	Programmable microbial ink for 3D printing of living materials produced from genetically engineered protein nanofibers. Nature Communications, 2021, 12, 6600.	5.8	52
43	Synthesis of nanomedicine hydrogel microcapsules by droplet microfluidic process and their pH and temperature dependent release. RSC Advances, 2021, 11, 37814-37823.	1.7	14
44	Advanced microfluidic devices for fabricating multiâ€structural hydrogel microsphere. Exploration, 2021, 1, .	5.4	35
45	A general strategy for one-step fabrication of biocompatible microcapsules with controlled active release. Chinese Chemical Letters, 2020, 31, 249-252.	4.8	33
46	MicrofluidicsâEAssisted Assembly of Injectable Photonic Hydrogels toward Reflective Cooling. Small, 2020, 16, e1903939.	5.2	63
47	Hydrogel microcapsules with photocatalytic nanoparticles for removal of organic pollutants. Environmental Science: Nano, 2020, 7, 656-664.	2.2	51
48	DNAzyme-powered nucleic acid release from solid supports. Chemical Communications, 2020, 56, 647-650.	2.2	3
49	Parallelizable microfluidic dropmakers with multilayer geometry for the generation of double emulsions. Lab on A Chip, 2020, 20, 147-154.	3.1	45
50	Rock damage evolution model of pulsating fracturing based on energy evolution theory. Energy Science and Engineering, 2020, 8, 1050-1067.	1.9	13
51	Spontaneous Creation of Anisotropic Polymer Crystals with Orientation-Sensitive Birefringence in Liquid Drops. ACS Applied Materials & Interfaces, 2020, 12, 3912-3918.	4.0	9
52	Observations of 3 nm Silk Nanofibrils Exfoliated from Natural Silkworm Silk Fibers. , 2020, 2, 153-160.		37
53	Stiffness of the interface between a colloidal body-centered cubic crystal and its liquid. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25225-25229.	3.3	3
54	Tunable Nanochannels Connected in Series for Dynamic Control of Multiple Concentration-Polarization Layers and Preconcentrated Molecule Plugs. Nano Letters, 2020, 20, 8524-8533.	4.5	9

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55	Jâ€Aggregateâ€Based FRET Monitoring of Drug Release from Polymer Nanoparticles with High Drug Loading. Angewandte Chemie, 2020, 132, 20240-20249.	1.6	10
56	Rapid isolation of antigen-specific B-cells using droplet microfluidics. RSC Advances, 2020, 10, 27006-27013.	1.7	30
57	Jâ€Aggregateâ€Based FRET Monitoring of Drug Release from Polymer Nanoparticles with High Drug Loading. Angewandte Chemie - International Edition, 2020, 59, 20065-20074.	7.2	42
58	Interfacial Viscoelasticity in Crude Oil-Water Systems to Understand Incremental Oil Recovery. , 2020, , .		3
59	Selective cell encapsulation, lysis, pico-injection and size-controlled droplet generation using traveling surface acoustic waves in a microfluidic device. Lab on A Chip, 2020, 20, 3914-3921.	3.1	26
60	Universal Statistical Laws for the Velocities of Collective Migrating Cells. Advanced Biology, 2020, 4, e2000065.	3.0	13
61	Microfluidic Synthesis of Multimode Au@CoFeB-Rg3 Nanomedicines and Their Cytotoxicity and Anti-Tumor Effects. Chemistry of Materials, 2020, 32, 5044-5056.	3.2	27
62	Continuous microfluidic encapsulation of single mesenchymal stem cells using alginate microgels as injectable fillers for bone regeneration. Acta Biomaterialia, 2020, 111, 181-196.	4.1	55
63	A High-Throughput Screening System Based on Droplet Microfluidics for Glucose Oxidase Gene Libraries. Molecules, 2020, 25, 2418.	1.7	21
64	Active Encapsulation in Biocompatible Nanocapsules. Small, 2020, 16, e2002716.	5.2	42
65	Droplet encapsulation improves accuracy of immune cell cytokine capture assays. Lab on A Chip, 2020, 20, 1513-1520.	3.1	30
66	Stimuli responsive Janus microgels with convertible hydrophilicity for controlled emulsion destabilization. Soft Matter, 2020, 16, 3613-3620.	1.2	18
67	Single Extracellular Vesicle Protein Analysis Using Immunoâ€Droplet Digital Polymerase Chain Reaction Amplification. Advanced Biology, 2020, 4, e1900307.	3.0	52
68	The Fourth Decade of Microfluidics. Small, 2020, 16, e2000070.	5.2	30
69	Absorbentâ€“Adsorbates: Large Amphiphilic Janus Microgels as Droplet Stabilizers. ACS Applied Materials & Interfaces, 2020, 12, 33439-33446.	4.0	22
70	Effect of Divalent Cations on the Structure and Mechanics of Vimentin Intermediate Filaments. Biophysical Journal, 2020, 119, 55-64.	0.2	19
71	Single Molecule Protein Detection with Attomolar Sensitivity Using Droplet Digital Enzyme-Linked Immunosorbent Assay. ACS Nano, 2020, 14, 9491-9501.	7.3	138
72	Coreâ€“Shell Nanohydrogels with Programmable Swelling for Conformance Control in Porous Media. ACS Applied Materials & Interfaces, 2020, 12, 34217-34225.	4.0	16

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73	Dissolvable Polyacrylamide Beads for Highâ€Throughput Droplet DNA Barcoding. Advanced Science, 2020, 7, 1903463.	5.6	25
74	Nanoparticleâ€Shelled Catalytic Bubble Micromotor. Advanced Materials Interfaces, 2020, 7, 1901583.	1.9	28
75	Stable Polymer Nanoparticles with Exceptionally High Drug Loading by Sequential Nanoprecipitation. Angewandte Chemie, 2020, 132, 4750-4758.	1.6	40
76	Stable Polymer Nanoparticles with Exceptionally High Drug Loading by Sequential Nanoprecipitation. Angewandte Chemie - International Edition, 2020, 59, 4720-4728.	7.2	81
77	Novel nonequilibrium steady states in multiple emulsions. Physics of Fluids, 2020, 32, .	1.6	20
78	Decoupling the effects of nanopore size and surface roughness on the attachment, spreading and differentiation of bone marrow-derived stem cells. Biomaterials, 2020, 248, 120014.	5.7	57
79	MAFG-driven astrocytes promote CNS inflammation. Nature, 2020, 578, 593-599.	13.7	282
80	Origin of anomalous polymer-induced fluid displacement in porous media. Physical Review Fluids, 2020, 5, .	1.0	23
81	Propagation and adsorption of nanoparticles in porous medium as traveling waves. Physical Review Research, 2020, 2, .	1.3	7
82	Preparation of monodisperse hybrid gel particles with various morphologiesviaflow rate and temperature control. Soft Matter, 2019, 15, 6934-6937.	1.2	13
83	Programmable microencapsulation for enhanced mesenchymal stem cell persistence and immunomodulation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15392-15397.	3.3	124
84	Compression Generated by a 3D Supracellular Actomyosin Cortex Promotes Embryonic Stem Cell Colony Growth and Expression of Nanog and Oct4. Cell Systems, 2019, 9, 214-220.e5.	2.9	20
85	Self-Limited Accumulation of Colloids in Porous Media. Physical Review Letters, 2019, 123, 158005.	2.9	31
86	Controllable Fabrication of Inhomogeneous Microcapsules for Triggered Release by Osmotic Pressure. Small, 2019, 15, e1903087.	5.2	23
87	Dendronized fluorosurfactant for highly stable water-in-fluorinated oil emulsions with minimal inter-droplet transfer of small molecules. Nature Communications, 2019, 10, 4546.	5.8	95
88	Single-step assembly of asymmetric vesicles. Lab on A Chip, 2019, 19, 749-756.	3.1	30
89	Probe Sensitivity to Cortical versus Intracellular Cytoskeletal Network Stiffness. Biophysical Journal, 2019, 116, 518-529.	0.2	46
90	A simple mix-and-read bacteria detection system based on a DNAzyme and a molecular beacon. Chemical Communications, 2019, 55, 7358-7361.	2.2	19

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91	Transparent Impact-Resistant Composite Films with Bioinspired Hierarchical Structure. ACS Applied Materials & Interfaces, 2019, 11, 23616-23622.	4.0	39
92	Waterâ€Triggered Rapid Release of Biocide with Enhanced Antimicrobial Activity in Biodiesel. Macromolecular Materials and Engineering, 2019, 304, 1900156.	1.7	4
93	Traveling surface acoustic wave (TSAW) microfluidic fluorescence activated cell sorter (Î¼FACS). Lab on A Chip, 2019, 19, 2435-2443.	3.1	63
94	Controlled co-precipitation of biocompatible colorant-loaded nanoparticles by microfluidics for natural color drinks. Lab on A Chip, 2019, 19, 2089-2095.	3.1	53
95	Millimeter-Size Pickering Emulsions Stabilized with Janus Microparticles. Langmuir, 2019, 35, 4693-4701.	1.6	55
96	Photothermal-responsive nanosized hybrid polymersome as versatile therapeutics codelivery nanovehicle for effective tumor suppression. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7744-7749.	3.3	85
97	Jetting to dripping transition: Critical aspect ratio in step emulsifiers. Physics of Fluids, 2019, 31, .	1.6	25
98	Hydrogel micromotors with catalyst-containing liquid core and shell. Journal of Physics Condensed Matter, 2019, 31, 214004.	0.7	31
99	Rapid additive-free bacteria lysis using traveling surface acoustic waves in microfluidic channels. Lab on A Chip, 2019, 19, 4064-4070.	3.1	21
100	Reduced Graphene Oxide Membrane Induced Robust Structural Colors toward Personal Thermal Management. ACS Photonics, 2019, 6, 116-122.	3.2	54
101	Direct observation of crystallization and melting with colloids. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1180-1184.	3.3	28
102	Interaction of spin-labeled HPMA-based nanoparticles with human blood plasma proteins â€“ the introduction of protein-corona-free polymer nanomedicine. Nanoscale, 2018, 10, 6194-6204.	2.8	37
103	Regularized lattice Boltzmann multicomponent models for low capillary and Reynolds microfluidics flows. Computers and Fluids, 2018, 167, 33-39.	1.3	33
104	Gold Nanorods Conjugated Porous Silicon Nanoparticles Encapsulated in Calcium Alginate Nano Hydrogels Using Microemulsion Templates. Nano Letters, 2018, 18, 1448-1453.	4.5	73
105	Rapid Patterning of PDMS Microfluidic Device Wettability Using Syringe-Vacuum-Induced Segmented Flow in Nonplanar Geometry. ACS Applied Materials & Interfaces, 2018, 10, 3170-3174.	4.0	45
106	Stimuli-responsive dendronized polymeric hydrogels through Schiff-base chemistry showing remarkable topological effects. Polymer Chemistry, 2018, 9, 378-387.	1.9	36
107	Surfactant Variations in Porous Media Localize Capillary Instabilities during Haines Jumps. Physical Review Letters, 2018, 120, 028005.	2.9	30
108	Microfluidic Templated Multicompartment Microgels for 3D Encapsulation and Pairing of Single Cells. Small, 2018, 14, 1702955.	5.2	118

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109	Geometric constraints during epithelial jamming. Nature Physics, 2018, 14, 613-620.	6.5	196
110	Microfluidic Model Porous Media: Fabrication and Applications. Small, 2018, 14, e1703575.	5.2	160
111	High-throughput double emulsion-based microfluidic production of hydrogel microspheres with tunable chemical functionalities toward biomolecular conjugation. Lab on A Chip, 2018, 18, 323-334.	3.1	51
112	Throughput enhancement of parallel step emulsifier devices by shear-free and efficient nozzle clearance. Lab on A Chip, 2018, 18, 132-138.	3.1	79
113	Determining the lipid specificity of insoluble protein transmembrane domains. Lab on A Chip, 2018, 18, 3561-3569.	3.1	1
114	Macroscopic Selfâ€Assembly: Versatile Hydrogel Ensembles with Macroscopic Multidimensions (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	11.1	3
115	Versatile Hydrogel Ensembles with Macroscopic Multidimensions. Advanced Materials, 2018, 30, 1803475.	11.1	41
116	Tumor-Vasculature-on-a-Chip for Investigating Nanoparticle Extravasation and Tumor Accumulation. ACS Nano, 2018, 12, 11600-11609.	7.3	111
117	Wetting controls of droplet formation in step emulsification. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9479-9484.	3.3	74
118	Collective Shape Actuation of Polymer Double Emulsions by Solvent Evaporation. ACS Applied Materials & Interfaces, 2018, 10, 31865-31869.	4.0	8
119	Tissue and cellular rigidity and mechanosensitive signaling activation in Alexander disease. Nature Communications, 2018, 9, 1899.	5.8	43
120	Evolution on the Biophysical Fitness Landscape of an RNA Virus. Molecular Biology and Evolution, 2018, 35, 2390-2400.	3.5	45
121	A Versatile Strategy to Fabricate 3D Conductive Frameworks for Lithium Metal Anodes. Advanced Materials Interfaces, 2018, 5, 1800807.	1.9	25
122	Dynamic Microcapsules with Rapid and Reversible Permeability Switching. Advanced Functional Materials, 2018, 28, 1803385.	7.8	37
123	Hydrogel Microcapsules with Dynamic pH-Responsive Properties from Methacrylic Anhydride. Macromolecules, 2018, 51, 5798-5805.	2.2	45
124	Microfluidic fabrication of microparticles for biomedical applications. Chemical Society Reviews, 2018, 47, 5646-5683.	18.7	410
125	Elucidating the mechanism of step emulsification. Physical Review Fluids, 2018, 3, .	1.0	27
126	Functional Microcapsules via Thiolâ€“Ene Photopolymerization in Droplet-Based Microfluidics. ACS Applied Materials & Interfaces, 2017, 9, 3288-3293.	4.0	39

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127	An RNA-based signature enables high specificity detection of circulating tumor cells in hepatocellular carcinoma. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1123-1128.	3.3	133
128	Core/Shell Nanocomposites Produced by Superfast Sequential Microfluidic Nanoprecipitation. Nano Letters, 2017, 17, 606-614.	4.5	123
129	Microfluidic Fabrication of Colloidal Nanomaterials-Encapsulated Microcapsules for Biomolecular Sensing. Nano Letters, 2017, 17, 2015-2020.	4.5	78
130	Controlled Generation of Ultrathinâ€Shell Double Emulsions and Studies on Their Stability. ChemPhysChem, 2017, 18, 1393-1399.	1.0	29
131	Sensitive and predictable separation of microfluidic droplets by size using in-line passive filter. Biomicrofluidics, 2017, 11, 014114.	1.2	13
132	Convection-Driven Pull-Down Assays in Nanoliter Droplets Using Scaffolded Aptamers. Analytical Chemistry, 2017, 89, 3468-3473.	3.2	52
133	Ultrafast Nanofiltration through Large-Area Single-Layered Graphene Membranes. ACS Applied Materials & Interfaces, 2017, 9, 9239-9244.	4.0	54
134	The microfluidic nebulator: production of sub-micrometer sized airborne drops. Lab on A Chip, 2017, 17, 1475-1480.	3.1	12
135	Direct Observation of Entropic Stabilization of bcc Crystals Near Melting. Physical Review Letters, 2017, 118, 088003.	2.9	27
136	An Intestinal Organ Culture System Uncovers a Role for the Nervous System in Microbe-Immune Crosstalk. Cell, 2017, 168, 1135-1148.e12.	13.5	182
137	Tandem emulsification for high-throughput production of double emulsions. Lab on A Chip, 2017, 17, 936-942.	3.1	57
138	Rapid Production of Submicron Drug Substance Particles by Supersonic Spray Drying. Crystal Growth and Design, 2017, 17, 2046-2053.	1.4	8
139	Collective generation of milliemulsions by step-emulsification. RSC Advances, 2017, 7, 14932-14938.	1.7	20
140	Osmotic Pressure Triggered Rapid Release of Encapsulated Enzymes with Enhanced Activity. Advanced Functional Materials, 2017, 27, 1700975.	7.8	34
141	Efficient extraction of oil from droplet microfluidic emulsions. Biomicrofluidics, 2017, 11, 034111.	1.2	15
142	Stable, Fluorescent Polymethylmethacrylate Particles for the Long-Term Observation of Slow Colloidal Dynamics. Langmuir, 2017, 33, 6382-6389.	1.6	18
143	Reply to the â€˜Comment on â€œRobust scalable high throughput production of monodisperse dropsâ€â€™ by M. Nakajima, Lab Chip, 2017, 17, DOI: 10.1039/C7LC00181A. Lab on A Chip, 2017, 17, 2332-2333.	3.1	2
144	Controlled self-assembly of alginate microgels by rapidly binding molecule pairs. Lab on A Chip, 2017, 17, 2481-2490.	3.1	24

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145	Scaling by shrinking: empowering single-cell 'omics' with microfluidic devices. Nature Reviews Genetics, 2017, 18, 345-361.	7.7	274
146	Highâ€Throughput Step Emulsification for the Production of Functional Materials Using a Glass Microfluidic Device. Macromolecular Chemistry and Physics, 2017, 218, 1600472.	1.1	113
147	Local Pore Size Correlations Determine Flow Distributions in Porous Media. Physical Review Letters, 2017, 119, 144501.	2.9	65
148	Enhanced surface acoustic wave cell sorting by 3D microfluidic-chip design. Lab on A Chip, 2017, 17, 4059-4069.	3.1	51
149	Mechanical Properties of the Cytoskeleton and Cells. Cold Spring Harbor Perspectives in Biology, 2017, 9, a022038.	2.3	194
150	Selfâ€Healing Materials: Tough Selfâ€Healing Elastomers by Molecular Enforced Integration of Covalent and Reversible Networks (Adv. Mater. 38/2017). Advanced Materials, 2017, 29, .	11.1	2
151	Optically reconfigurable chiral microspheres of self-organized helical superstructures with handedness inversion. Materials Horizons, 2017, 4, 1190-1195.	6.4	83
152	Polymer Phase Separation in a Microcapsule Shell. Macromolecules, 2017, 50, 7681-7686.	2.2	26
153	Cell volume change through water efflux impacts cell stiffness and stem cell fate. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8618-E8627.	3.3	362
154	Axial Confocal Tomography of Capillary-Contained Colloidal Structures. Langmuir, 2017, 33, 13343-13349.	1.6	2
155	Robust mechanobiological behavior emerges in heterogeneous myosin systems. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8147-E8154.	3.3	5
156	Fabrication of Calcium Phosphateâ€Based Nanocomposites Incorporating DNA Origami, Gold Nanorods, and Anticancer Drugs for Biomedical Applications. Advanced Healthcare Materials, 2017, 6, 1700664.	3.9	24
157	Triple Junction at the Triple Point Resolved on the Individual Particle Level. Physical Review Letters, 2017, 119, 128001.	2.9	12
158	Physical limits to biomechanical sensing in disordered fibre networks. Nature Communications, 2017, 8, 16096.	5.8	47
159	Perspective on droplet-based single-cell sequencing. Lab on A Chip, 2017, 17, 2539-2539.	3.1	4
160	Biocompatible microcapsules with a water core templated from single emulsions. Chinese Chemical Letters, 2017, 28, 1897-1900.	4.8	21
161	Microfluidics: Osmotic Pressure Triggered Rapid Release of Encapsulated Enzymes with Enhanced Activity (Adv. Funct. Mater. 29/2017). Advanced Functional Materials, 2017, 27, .	7.8	0
162	Tough Selfâ€Healing Elastomers by Molecular Enforced Integration of Covalent and Reversible Networks. Advanced Materials, 2017, 29, 1702616.	11.1	304

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163	Biocompatible Amphiphilic Hydrogelâ€“Solid Dimer Particles as Colloidal Surfactants. ACS Nano, 2017, 11, 11978-11985.	7.3	72
164	Bioinspired graphene membrane with temperature tunable channels for water gating and molecular separation. Nature Communications, 2017, 8, 2011.	5.8	175
165	Multistage Transformation and Lattice Fluctuation at AgClâ€“Ag Interface. Journal of Physical Chemistry Letters, 2017, 8, 5853-5860.	2.1	3
166	Multi-functional micromotor: microfluidic fabrication and water treatment application. Lab on A Chip, 2017, 17, 4220-4224.	3.1	53
167	Creation of Faceted Polyhedral Microgels from Compressed Emulsions. Small, 2017, 13, 1701256.	5.2	23
168	Parallelization of microfluidic flow-focusing devices. Physical Review E, 2017, 95, 043105.	0.8	26
169	Deterministic encapsulation of single cells in thin tunable microgels for niche modelling and therapeutic delivery. Nature Materials, 2017, 16, 236-243.	13.3	286
170	Dispersing hydrophobic natural colourant Î²-carotene in shellac particles for enhanced stability and tunable colour. Royal Society Open Science, 2017, 4, 170919.	1.1	16
171	Massively parallel single-nucleus RNA-seq with DroNc-seq. Nature Methods, 2017, 14, 955-958.	9.0	859
172	Drying regimes in homogeneous porous media from macro- to nanoscale. Physical Review Fluids, 2017, 2, .	1.0	48
173	Methods for Determining the Cellular Functions of Vimentin Intermediate Filaments. Methods in Enzymology, 2016, 568, 389-426.	0.4	30
174	Stable Ultrathinâ€Shell Double Emulsions for Controlled Release. ChemPhysChem, 2016, 17, 1553-1556.	1.0	24
175	A mix-and-read drop-based in vitro two-hybrid method for screening high-affinity peptide binders. Scientific Reports, 2016, 6, 22575.	1.6	12
176	Optimization and development of a universal flow-based microfluidic gradient generator. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	8
177	Droplet microfluidics: A tool for biology, chemistry and nanotechnology. TrAC - Trends in Analytical Chemistry, 2016, 82, 118-125.	5.8	280
178	Microfluidic Fabrication of Pluronic Vesicles with Controlled Permeability. Langmuir, 2016, 32, 5350-5355.	1.6	34
179	Drug Co-Delivery: Biodegradable Photothermal and pH Responsive Calcium Carbonate@Phospholipid@Acetalated Dextran Hybrid Platform for Advancing Biomedical Applications (Adv. Funct. Mater. 34/2016). Advanced Functional Materials, 2016, 26, 6138-6138.	7.8	0
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