David A Weitz

List of Publications by Year
in descending order

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374 papers	49,741 citations	744 114 h-index	1182 216 g-index
413 all docs	413 docs citations	413 times ranked	53814 citing authors

#	Article	IF	Citations
1	Syringable Microcapsules for Sustained, Localized, and Controllable siRNA Delivery. ACS Applied Materials & Interfaces, 2025, 17, 187-196.	8.1	0
2	Enhancing drug solubility through competitive adsorption on silica nanosurfaces with ultrahigh silanol densities. Proceedings of the National Academy of Sciences of the United States of America, 2025, 122, .	7.7	0
3	Vimentin undergoes liquidâ€“liquid phase separation to form droplets which wet and stabilize actin fibers. Proceedings of the National Academy of Sciences of the United States of America, 2025, 122, .	7.7	0
4	Multichannel Multijunction Droplet Microfluidic Device to Synthesize Hydrogel Microcapsules with Different Coreâ€“Shell Structures and Adjustable Core Positions. Langmuir, 2024, 40, 1950-1960.	3.8	6
5	Development and future of droplet microfluidics. Lab on A Chip, 2024, 24, 1135-1153.	5.6	40
6	Digital Barcodes for High-Throughput Screening. , 2024, 1, 2-12.		7
7	Propagation of extended fractures by local nucleation and rapid transverse expansion of crack-front distortion. Nature Physics, 2024, 20, 660-665.	9.0	7
8	Shell buckling for programmable metafluids. Nature, 2024, 628, 545-550.	40.1	20
9	Thin adhesive oil films lead to anomalously stable mixtures of water in oil. Science, 2024, 384, 209-213.	38.2	7
10	High-throughput direct screening of restriction endonuclease using a microfluidic fluorescence-activated drop sorter based on the SOS response in Escherichia coli. Analyst, The, 2024, 149, 3575-3584.	3.1	0
11	Polysaccharide functionalization reduces lipid vesicle stiffness. Proceedings of the National Academy of Sciences of the United States of America, 2024, 121, .	7.7	1
12	Biomolecular condensates with complex architectures via controlled nucleation. Nature Chemical Engineering, 2024, 1, 430-439.	0.0	6
13	Work hardening in colloidal crystals. Nature, 2024, 630, 648-653.	40.1	1
14	Manipulating the duration of picoinjection controls the injected volume of individual droplets. Biomicrofluidics, 2024, 18, .	2.4	0
15	Ultrasoft silicone gels with tunable refractive index for traction force microscopy. Soft Matter, 2024, 20, 4633-4639.	2.7	1
16	Targeted whole-genome recovery of single viral species in a complex environmental sample. Proceedings of the National Academy of Sciences of the United States of America, 2024, 121, .	7.7	0
17	Dramatic droplet deformation through interfacial particles jamming. Proceedings of the National Academy of Sciences of the United States of America, 2024, 121, .	7.7	1
18	Tuning porosity of macroporous hydrogels enables rapid rates of stress relaxation and promotes cell expansion and migration. Proceedings of the National Academy of Sciences of the United States of America, 2024, 121, .	7.7	3

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19	Visualization of Flowâ€Induced Strain Using Structural Color in Channelâ€Free Polydimethylsiloxane Devices. Advanced Science, 2023, 10, .	12.8	5
20	Droplet-based transcriptome profiling of individual synapses. Nature Biotechnology, 2023, 41, 1332-1344.	18.1	32
21	Controlled Continuous Evolution of Enzymatic Activity Screened at Ultrahigh Throughput Using Dropâ€Based Microfluidics. Angewandte Chemie, 2023, 135, .	1.5	1
22	Spatially non-uniform condensates emerge from dynamically arrested phase separation. Nature Communications, 2023, 14, .	14.1	25
23	Controlled Continuous Evolution of Enzymatic Activity Screened at Ultrahigh Throughput Using Dropâ€Based Microfluidics. Angewandte Chemie - International Edition, 2023, 62, .	15.0	11
24	Melting of a macroscale binary Coulombic crystal. Soft Matter, 2023, 19, 3190-3198.	2.7	1
25	Rock-on-a-chip: â€œSeeingâ€•the association/disassociation of an adaptive polymer in solutions flowing through porous media. Lab on A Chip, 2023, 23, 2808-2818.	5.6	1
26	Droplet-based high-throughput single microbe RNA sequencing by smRandom-seq. Nature Communications, 2023, 14, .	14.1	34
27	Dislocation interactions during plastic relaxation of epitaxial colloidal crystals. Nature Communications, 2023, 14, .	14.1	5
28	Pickering emulsions stabilized by colloidal surfactants: Role of solid particles. Particuology, 2022, 64, 153-163.	5.3	114
29	Regulation of cell attachment, spreading, and migration by hydrogel substrates with independently tunable mesh size. Acta Biomaterialia, 2022, 141, 178-189.	9.3	25
30	Cell-Inspired Hydrogel Microcapsules with a Thin Oil Layer for Enhanced Retention of Highly Reactive Antioxidants. ACS Applied Materials & Interfaces, 2022, 14, 2597-2604.	8.1	11
31	An outlook on microfluidics: the promise and the challenge. Lab on A Chip, 2022, 22, 530-536.	5.6	186
32	The correlation between cell and nucleus size is explained by an eukaryotic cell growth model. PLoS Computational Biology, 2022, 18, e1009400.	3.3	35
33	Nonlinear Phenomena in Microfluidics. Chemical Reviews, 2022, 122, 6921-6937.	54.6	49
34	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, .	7.7	30
35	Dielectrophoretic Characterization of Dynamic Microcapsules and Their Magnetophoretic Manipulation. ACS Applied Materials & Interfaces, 2022, 14, 15765-15773.	8.1	6
36	Correlation Tracking: Using simulations to interpolate highly correlated particle tracks. Physical Review E, 2022, 105, .	2.1	0

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37	Adsorption of Polar Species at Crude Oilâ€“Water Interfaces: the Chemoelastic Behavior. Langmuir, 2022, 38, 6523-6530.	3.8	10
38	Large-scale single-cell encapsulation in microgels through metastable droplet-templating combined with microfluidic-integration. Biofabrication, 2022, 14, 035015.	7.3	14
39	A high-throughput multiparameter screen for accelerated development and optimization of soluble genetically encoded fluorescent biosensors. Nature Communications, 2022, 13, .	14.1	40
40	High-throughput, single-microbe genomics with strain resolution, applied to a human gut microbiome. Science, 2022, 376, .	38.2	138
41	Line optical tweezers as controllable micromachines: techniques and emerging trends. Soft Matter, 2022, 18, 5359-5365.	2.7	12
42	Soft materials evolution and revolution. Nature Materials, 2022, 21, 986-988.	20.9	18
43	Rapid parallel generation of a fluorescently barcoded drop library from a microtiter plate using the plate-interfacing parallel encapsulation (PIPE) chip. Lab on A Chip, 2022, 22, 4735-4745.	5.6	2
44	Matrix viscoelasticity controls spatiotemporal tissue organization. Nature Materials, 2022, 22, 117-127.	20.9	119
45	A New Ensemble Machine-Learning Framework for Searching Sweet Spots in Shale Reservoirs. SPE Journal, 2021, 26, 482-497.	3.0	91
46	Diverse Particle Carriers Prepared by Coâ€Precipitation and Phase Separation: Formation and Applications. ChemPlusChem, 2021, 86, 49-58.	2.8	31
47	Hydrogel Microcapsules with a Thin Oil Layer: Smart Triggered Release via Diverse Stimuli. Advanced Functional Materials, 2021, 31, .	17.1	29
48	Linear triglycerol-based fluorosurfactants show high potential for droplet-microfluidics-based biochemical assays. Soft Matter, 2021, 17, 7260-7267.	2.7	11
49	Single-Cell Transcriptomics Reveals a Heterogeneous Cellular Response to BK Virus Infection. Journal of Virology, 2021, 95, .	3.6	12
50	Ordered Mesoporous Microcapsules from Double Emulsion Confined Block Copolymer Self-Assembly. ACS Nano, 2021, 15, 3490-3499.	15.4	48
51	Anomalous mechanics of Zn ²⁺ -modified fibrin networks. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.7	15
52	Sequencing-Based Protein Analysis of Single Extracellular Vesicles. ACS Nano, 2021, 15, 5631-5638.	15.4	82
53	Implications of Quenchingâ€toâ€Dequenching Switch in Quantitative Cell Uptake and Biodistribution of Dyeâ€Labeled Nanoparticles. Angewandte Chemie, 2021, 133, 15554-15563.	1.5	1
54	Implications of Quenchingâ€toâ€Dequenching Switch in Quantitative Cell Uptake and Biodistribution of Dyeâ€Labeled Nanoparticles. Angewandte Chemie - International Edition, 2021, 60, 15426-15435.	15.0	16

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55	Attractive Pickering Emulsion Gels. Advanced Materials, 2021, 33, .	24.7	121
56	Unexpected scaling of interstitial velocities with permeability due to polymer retention in porous media. Physical Review Fluids, 2021, 6, .	2.5	5
57	Dynamic Speckle Holography. Physical Review Letters, 2021, 127, .	7.8	6
58	Emulsion Designer Using Microfluidic Threeâ€Dimensional Droplet Printing in Droplet. Small, 2021, 17, .	11.6	27
59	Tumorigenic mesenchymal clusters are less sensitive to moderate osmotic stresses due to low amounts of junctional E-cadherin. Scientific Reports, 2021, 11, .	3.7	18
60	Effects of Vimentin Intermediate Filaments on the Structure and Dynamics of InÂVitro Multicomponent Interpenetrating Cytoskeletal Networks. Physical Review Letters, 2021, 127, .	7.8	23
61	Millifluidics, microfluidics, and nanofluidics: manipulating fluids at varying length scales. Materials Today Nano, 2021, 16, 100136.	5.2	73
62	Microchannel measurements of viscosity for both gases and liquids. Lab on A Chip, 2021, 21, 2805-2811.	5.6	12
63	Microfluidic Fabrication of Phase-Inverted Microcapsules with Asymmetric Shell Membranes with Graded Porosity. ACS Macro Letters, 2021, 10, 116-121.	5.1	9
64	Programmable microbial ink for 3D printing of living materials produced from genetically engineered protein nanofibers. Nature Communications, 2021, 12, .	14.1	79
65	Synthesis of nanomedicine hydrogel microcapsules by droplet microfluidic process and their pH and temperature dependent release. RSC Advances, 2021, 11, 37814-37823.	4.5	17
66	Advanced microfluidic devices for fabricating multiâ€structural hydrogel microsphere. Exploration, 2021, 1, .	18.0	56
67	A general strategy for one-step fabrication of biocompatible microcapsules with controlled active release. Chinese Chemical Letters, 2020, 31, 249-252.	7.5	35
68	Microfluidicsâ€Assisted Assembly of Injectable Photonic Hydrogels toward Reflective Cooling. Small, 2020, 16, .	11.6	68
69	Hydrogel microcapsules with photocatalytic nanoparticles for removal of organic pollutants. Environmental Science: Nano, 2020, 7, 656-664.	3.7	60
70	DNAzyme-powered nucleic acid release from solid supports. Chemical Communications, 2020, 56, 647-650.	4.2	3
71	Parallelizable microfluidic dropmakers with multilayer geometry for the generation of double emulsions. Lab on A Chip, 2020, 20, 147-154.	5.6	51
72	Spontaneous Creation of Anisotropic Polymer Crystals with Orientation-Sensitive Birefringence in Liquid Drops. ACS Applied Materials & Interfaces, 2020, 12, 3912-3918.	8.1	11

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73	Observations of 3 nm Silk Nanofibrils Exfoliated from Natural Silkworm Silk Fibers. , 2020, 2, 153-160.		49
74	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.	7.7	4
75	Tunable Nanochannels Connected in Series for Dynamic Control of Multiple Concentration-Polarization Layers and Preconcentrated Molecule Plugs. Nano Letters, 2020, 20, 8524-8533.	8.8	13
76	Jâ€Aggregateâ€Based FRET Monitoring of Drug Release from Polymer Nanoparticles with High Drug Loading. Angewandte Chemie, 2020, 132, 20240-20249.	1.5	15
77	Rapid isolation of antigen-specific B-cells using droplet microfluidics. RSC Advances, 2020, 10, 27006-27013.	4.5	32
78	Jâ€Aggregateâ€Based FRET Monitoring of Drug Release from Polymer Nanoparticles with High Drug Loading. Angewandte Chemie - International Edition, 2020, 59, 20065-20074.	15.0	50
79	Interfacial Viscoelasticity in Crude Oil-Water Systems to Understand Incremental Oil Recovery. , 2020, , .		5
80	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.	5.6	35
81	Universal Statistical Laws for the Velocities of Collective Migrating Cells. Advanced Biology, 2020, 4, .	3.8	12
82	Microfluidic Synthesis of Multimode Au@CoFeB-Rg3 Nanomedicines and Their Cytotoxicity and Anti-Tumor Effects. Chemistry of Materials, 2020, 32, 5044-5056.	6.9	29
83	A High-Throughput Screening System Based on Droplet Microfluidics for Glucose Oxidase Gene Libraries. Molecules, 2020, 25, 2418.	4.4	21
84	Active Encapsulation in Biocompatible Nanocapsules. Small, 2020, 16, .	11.6	48
85	Droplet encapsulation improves accuracy of immune cell cytokine capture assays. Lab on A Chip, 2020, 20, 1513-1520.	5.6	36
86	Stimuli responsive Janus microgels with convertible hydrophilicity for controlled emulsion destabilization. Soft Matter, 2020, 16, 3613-3620.	2.7	20
87	Single Extracellular Vesicle Protein Analysis Using Immunoâ€Droplet Digital Polymerase Chain Reaction Amplification. Advanced Biology, 2020, 4, .	3.8	61
88	The Fourth Decade of Microfluidics. Small, 2020, 16, .	11.6	37
89	Absorbentâ€“Adsorbates: Large Amphiphilic Janus Microgels as Droplet Stabilizers. ACS Applied Materials & Interfaces, 2020, 12, 33439-33446.	8.1	27
90	Effect of Divalent Cations on the Structure and Mechanics of Vimentin Intermediate Filaments. Biophysical Journal, 2020, 119, 55-64.	0.4	20

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91	Single Molecule Protein Detection with Attomolar Sensitivity Using Droplet Digital Enzyme-Linked Immunosorbent Assay. ACS Nano, 2020, 14, 9491-9501.	15.4	167
92	Coreâ€“Shell Nanohydrogels with Programmable Swelling for Conformance Control in Porous Media. ACS Applied Materials & Interfaces, 2020, 12, 34217-34225.	8.1	20
93	Dissolvable Polyacrylamide Beads for Highâ€Throughput Droplet DNA Barcoding. Advanced Science, 2020, 7, .	12.8	28
94	Nanoparticleâ€Shelled Catalytic Bubble Micromotor. Advanced Materials Interfaces, 2020, 7, .	4.2	31
95	Stable Polymer Nanoparticles with Exceptionally High Drug Loading by Sequential Nanoprecipitation. Angewandte Chemie, 2020, 132, 4750-4758.	1.5	47
96	Stable Polymer Nanoparticles with Exceptionally High Drug Loading by Sequential Nanoprecipitation. Angewandte Chemie - International Edition, 2020, 59, 4720-4728.	15.0	94
97	Novel nonequilibrium steady states in multiple emulsions. Physics of Fluids, 2020, 32, .	3.8	22
98	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.	12.3	68
99	MAFG-driven astrocytes promote CNS inflammation. Nature, 2020, 578, 593-599.	40.1	298
100	Origin of anomalous polymer-induced fluid displacement in porous media. Physical Review Fluids, 2020, 5, .	2.5	26
101	Preparation of monodisperse hybrid gel particles with various morphologiesviaflow rate and temperature control. Soft Matter, 2019, 15, 6934-6937.	2.7	13
102	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.	7.7	147
103	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.	6.0	20
104	Controllable Fabrication of Inhomogeneous Microcapsules for Triggered Release by Osmotic Pressure. Small, 2019, 15, .	11.6	28
105	Dendronized fluorosurfactant for highly stable water-in-fluorinated oil emulsions with minimal inter-droplet transfer of small molecules. Nature Communications, 2019, 10, .	14.1	100
106	Single-step assembly of asymmetric vesicles. Lab on A Chip, 2019, 19, 749-756.	5.6	33
107	Probe Sensitivity to Cortical versus Intracellular Cytoskeletal Network Stiffness. Biophysical Journal, 2019, 116, 518-529.	0.4	41
108	A simple mix-and-read bacteria detection system based on a DNAzyme and a molecular beacon. Chemical Communications, 2019, 55, 7358-7361.	4.2	20

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109	Transparent Impact-Resistant Composite Films with Bioinspired Hierarchical Structure. ACS Applied Materials & Interfaces, 2019, 11, 23616-23622.	8.1	44
110	Waterâ€Triggered Rapid Release of Biocide with Enhanced Antimicrobial Activity in Biodiesel. Macromolecular Materials and Engineering, 2019, 304, .	4.2	4
111	Traveling surface acoustic wave (TSAW) microfluidic fluorescence activated cell sorter (Î¼FACS). Lab on A Chip, 2019, 19, 2435-2443.	5.6	69
112	Controlled co-precipitation of biocompatible colorant-loaded nanoparticles by microfluidics for natural color drinks. Lab on A Chip, 2019, 19, 2089-2095.	5.6	62
113	Millimeter-Size Pickering Emulsions Stabilized with Janus Microparticles. Langmuir, 2019, 35, 4693-4701.	3.8	67
114	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.	7.7	93
115	Jetting to dripping transition: Critical aspect ratio in step emulsifiers. Physics of Fluids, 2019, 31, .	3.8	31
116	Hydrogel micromotors with catalyst-containing liquid core and shell. Journal of Physics Condensed Matter, 2019, 31, 214004.	2.2	30
117	Rapid additive-free bacteria lysis using traveling surface acoustic waves in microfluidic channels. Lab on A Chip, 2019, 19, 4064-4070.	5.6	25
118	Reduced Graphene Oxide Membrane Induced Robust Structural Colors toward Personal Thermal Management. ACS Photonics, 2019, 6, 116-122.	7.0	62
119	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.	7.7	32
120	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.	5.1	42
121	Regularized lattice Boltzmann multicomponent models for low capillary and Reynolds microfluidics flows. Computers and Fluids, 2018, 167, 33-39.	2.8	36
122	Gold Nanorods Conjugated Porous Silicon Nanoparticles Encapsulated in Calcium Alginate Nano Hydrogels Using Microemulsion Templates. Nano Letters, 2018, 18, 1448-1453.	8.8	87
123	Rapid Patterning of PDMS Microfluidic Device Wettability Using Syringe-Vacuum-Induced Segmented Flow in Nonplanar Geometry. ACS Applied Materials & Interfaces, 2018, 10, 3170-3174.	8.1	47
124	Surfactant Variations in Porous Media Localize Capillary Instabilities during Haines Jumps. Physical Review Letters, 2018, 120, .	7.8	31
125	Microfluidic Templated Multicompartment Microgels for 3D Encapsulation and Pairing of Single Cells. Small, 2018, 14, .	11.6	136
126	Geometric constraints during epithelial jamming. Nature Physics, 2018, 14, 613-620.	9.0	178

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127	Microfluidic Model Porous Media: Fabrication and Applications. Small, 2018, 14, .	11.6	167
128	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.	5.6	55
129	Throughput enhancement of parallel step emulsifier devices by shear-free and efficient nozzle clearance. Lab on A Chip, 2018, 18, 132-138.	5.6	83
130	Determining the lipid specificity of insoluble protein transmembrane domains. Lab on A Chip, 2018, 18, 3561-3569.	5.6	1
131	Versatile Hydrogel Ensembles with Macroscopic Multidimensions. Advanced Materials, 2018, 30, .	24.7	44
132	Tumor-Vasculature-on-a-Chip for Investigating Nanoparticle Extravasation and Tumor Accumulation. ACS Nano, 2018, 12, 11600-11609.	15.4	123
133	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.	7.7	85
134	Collective Shape Actuation of Polymer Double Emulsions by Solvent Evaporation. ACS Applied Materials & Interfaces, 2018, 10, 31865-31869.	8.1	8
135	Tissue and cellular rigidity and mechanosensitive signaling activation in Alexander disease. Nature Communications, 2018, 9, .	14.1	41
136	Evolution on the Biophysical Fitness Landscape of an RNA Virus. Molecular Biology and Evolution, 2018, 35, 2390-2400.	4.7	40
137	A Versatile Strategy to Fabricate 3D Conductive Frameworks for Lithium Metal Anodes. Advanced Materials Interfaces, 2018, 5, .	4.2	28
138	Dynamic Microcapsules with Rapid and Reversible Permeability Switching. Advanced Functional Materials, 2018, 28, .	17.1	41
139	Hydrogel Microcapsules with Dynamic pH-Responsive Properties from Methacrylic Anhydride. Macromolecules, 2018, 51, 5798-5805.	5.2	47
140	Microfluidic fabrication of microparticles for biomedical applications. Chemical Society Reviews, 2018, 47, 5646-5683.	38.2	468
141	Initial growth dynamics of 10Ânm nanobubbles in the graphene liquid cell. Applied Nanoscience (Switzerland), 2018, 11, 1-7.	2.4	17
142	Elucidating the mechanism of step emulsification. Physical Review Fluids, 2018, 3, .	2.5	31
143	Functional Microcapsules via Thiolâ€“Ene Photopolymerization in Droplet-Based Microfluidics. ACS Applied Materials & Interfaces, 2017, 9, 3288-3293.	8.1	38
144	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.	7.7	128

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145	Core/Shell Nanocomposites Produced by Superfast Sequential Microfluidic Nanoprecipitation. Nano Letters, 2017, 17, 606-614.	8.8	130
146	Microfluidic Fabrication of Colloidal Nanomaterials-Encapsulated Microcapsules for Biomolecular Sensing. Nano Letters, 2017, 17, 2015-2020.	8.8	84
147	Controlled Generation of Ultrathinâ€Shell Double Emulsions and Studies on Their Stability. ChemPhysChem, 2017, 18, 1393-1399.	2.0	30
148	Sensitive and predictable separation of microfluidic droplets by size using in-line passive filter. Biomicrofluidics, 2017, 11, .	2.4	15
149	Convection-Driven Pull-Down Assays in Nanoliter Droplets Using Scaffolded Aptamers. Analytical Chemistry, 2017, 89, 3468-3473.	6.7	53
150	Ultrafast Nanofiltration through Large-Area Single-Layered Graphene Membranes. ACS Applied Materials & Interfaces, 2017, 9, 9239-9244.	8.1	56
151	The microfluidic nebulator: production of sub-micrometer sized airborne drops. Lab on A Chip, 2017, 17, 1475-1480.	5.6	12
152	Direct Observation of Entropic Stabilization of bcc Crystals Near Melting. Physical Review Letters, 2017, 118, .	7.8	28
153	An Intestinal Organ Culture System Uncovers a Role for the Nervous System in Microbe-Immune Crosstalk. Cell, 2017, 168, 1135-1148.e12.	35.1	185
154	Tandem emulsification for high-throughput production of double emulsions. Lab on A Chip, 2017, 17, 936-942.	5.6	61
155	Rapid Production of Submicron Drug Substance Particles by Supersonic Spray Drying. Crystal Growth and Design, 2017, 17, 2046-2053.	3.5	8
156	Collective generation of milliemulsions by step-emulsification. RSC Advances, 2017, 7, 14932-14938.	4.5	20
157	Osmotic Pressure Triggered Rapid Release of Encapsulated Enzymes with Enhanced Activity. Advanced Functional Materials, 2017, 27, .	17.1	39
158	Efficient extraction of oil from droplet microfluidic emulsions. Biomicrofluidics, 2017, 11, .	2.4	15
159	Stable, Fluorescent Polymethylmethacrylate Particles for the Long-Term Observation of Slow Colloidal Dynamics. Langmuir, 2017, 33, 6382-6389.	3.8	15
160	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.	5.6	2
161	Controlled self-assembly of alginate microgels by rapidly binding molecule pairs. Lab on A Chip, 2017, 17, 2481-2490.	5.6	30
162	Scaling by shrinking: empowering single-cell 'omics' with microfluidic devices. Nature Reviews Genetics, 2017, 18, 345-361.	19.1	259

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163	Highâ€Throughput Step Emulsification for the Production of Functional Materials Using a Glass Microfluidic Device. Macromolecular Chemistry and Physics, 2017, 218, .	2.6	119
164	Local Pore Size Correlations Determine Flow Distributions in Porous Media. Physical Review Letters, 2017, 119, .	7.8	74
165	Enhanced surface acoustic wave cell sorting by 3D microfluidic-chip design. Lab on A Chip, 2017, 17, 4059-4069.	5.6	52
166	Mechanical Properties of the Cytoskeleton and Cells. Cold Spring Harbor Perspectives in Biology, 2017, 9, a022038.	7.4	200
167	Optically reconfigurable chiral microspheres of self-organized helical superstructures with handedness inversion. Materials Horizons, 2017, 4, 1190-1195.	10.3	84
168	Polymer Phase Separation in a Microcapsule Shell. Macromolecules, 2017, 50, 7681-7686.	5.2	27
169	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, .	7.7	347
170	Axial Confocal Tomography of Capillary-Contained Colloidal Structures. Langmuir, 2017, 33, 13343-13349.	3.8	3
171	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.	7.7	5
172	Fabrication of Calcium Phosphateâ€Based Nanocomposites Incorporating DNA Origami, Gold Nanorods, and Anticancer Drugs for Biomedical Applications. Advanced Healthcare Materials, 2017, 6, .	8.9	27
173	Physical limits to biomechanical sensing in disordered fibre networks. Nature Communications, 2017, 8, .	14.1	52
174	Perspective on droplet-based single-cell sequencing. Lab on A Chip, 2017, 17, 2539-2539.	5.6	4
175	Biocompatible microcapsules with a water core templated from single emulsions. Chinese Chemical Letters, 2017, 28, 1897-1900.	7.5	24
176	Tough Selfâ€Healing Elastomers by Molecular Enforced Integration of Covalent and Reversible Networks. Advanced Materials, 2017, 29, .	24.7	361
177	Biocompatible Amphiphilic Hydrogelâ€“Solid Dimer Particles as Colloidal Surfactants. ACS Nano, 2017, 11, 11978-11985.	15.4	75
178	Bioinspired graphene membrane with temperature tunable channels for water gating and molecular separation. Nature Communications, 2017, 8, .	14.1	190
179	Multistage Transformation and Lattice Fluctuation at AgClâ€“Ag Interface. Journal of Physical Chemistry Letters, 2017, 8, 5853-5860.	4.6	4
180	Creation of Faceted Polyhedral Microgels from Compressed Emulsions. Small, 2017, 13, .	11.6	23

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181	Parallelization of microfluidic flow-focusing devices. Physical Review E, 2017, 95, .	2.1	26
182	Dispersing hydrophobic natural colourant Î²-carotene in shellac particles for enhanced stability and tunable colour. Royal Society Open Science, 2017, 4, 170919.	2.7	19
183	Massively parallel single-nucleus RNA-seq with DroNc-seq. Nature Methods, 2017, 14, 955-958.	14.5	673
184	Methods for Determining the Cellular Functions of Vimentin Intermediate Filaments. Methods in Enzymology, 2016, , 389-426.	1.0	29
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