

# Wilhelm T S Huck

## List of Publications by Year in descending order

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218  
papers

28,567  
citations

4120

87  
h-index

5364

164  
g-index

236  
all docs

236  
docs citations

236  
times ranked

30226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoswitchable Molecular Communication between Programmable DNA-Based Artificial Membraneless Organelles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	27
2	Photoswitchable Molecular Communication between Programmable DNA-Based Artificial Membraneless Organelles. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	5
3	The Effect of Geometry and TGF- $\beta$ Signaling on Tumor Cell Migration from Free-Standing Microtissues. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102696.	3.9	3
4	DNA Input Classification by a Riboregulator-Based Cell-Free Perceptron. <i>ACS Synthetic Biology</i> , 2022, 11, 1510-1520.	1.9	8
5	A Bayesian Approach to Extracting Kinetic Information from Artificial Enzymatic Networks. <i>Analytical Chemistry</i> , 2022, 94, 7311-7318.	3.2	8
6	Traditional protocols and optimization methods lead to absent expression in a mycoplasma cell-free gene expression platform. <i>Synthetic Biology</i> , 2022, 7, .	1.2	2
7	A microfluidic optimal experimental design platform for forward design of cell-free genetic networks. <i>Nature Communications</i> , 2022, 13, .	5.8	12
8	Environmental conditions drive self-organization of reaction pathways in a prebiotic reaction network. <i>Nature Chemistry</i> , 2022, 14, 623-631.	6.6	24
9	Peptide-Based Coacervate-Core Vesicles with Semipermeable Membranes. <i>Advanced Materials</i> , 2022, 34, .	11.1	27
10	Microfabricated Gaps Reveal the Effect of Geometrical Control in Wound Healing. <i>Advanced Healthcare Materials</i> , 2021, 10, 2000630.	3.9	10
11	The Dynamics of an Oscillating Enzymatic Reaction Network is Crucially Determined by Side Reactions. <i>ChemSystemsChem</i> , 2021, 3, e2000033.	1.1	9
12	Energy expenditure during cell spreading influences the cellular response to matrix stiffness. <i>Biomaterials</i> , 2021, 267, 120494.	5.7	38
13	One-Step Generation of Multisomes from Lipid-Stabilized Double Emulsions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 6739-6747.	4.0	10
14	Reversible Photoswitchable Inhibitors Generate Ultrasensitivity in Out-of-Equilibrium Enzymatic Reactions. <i>Journal of the American Chemical Society</i> , 2021, 143, 5709-5716.	6.6	13
15	Reversible Photoswitchable Inhibitors Enable Wavelength-Selective Regulation of Out-of-Equilibrium Bi-enzymatic Systems. <i>ChemSystemsChem</i> , 2021, 3, .	1.1	1
16	Cell-Free Characterization of Coherent Feed-Forward Loop-Based Synthetic Genetic Circuits. <i>ACS Synthetic Biology</i> , 2021, 10, 1406-1416.	1.9	15
17	A physicochemical orthophosphate cycle via a kinetically stable thermodynamically activated intermediate enables mild prebiotic phosphorylations. <i>Nature Communications</i> , 2021, 12, 5517.	5.8	20
18	Single-cell intracellular epitope and transcript detection reveals signal transduction dynamics. <i>Cell Reports Methods</i> , 2021, 1, 100070.	1.4	21

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19	A short peptide synthon for liquid-liquid phase separation. <i>Nature Chemistry</i> , 2021, 13, 1046-1054.	6.6	91
20	Single-Cell Analysis Using Droplet Microfluidics. <i>Advanced Biology</i> , 2020, 4, e1900188.	3.0	169
21	Dynamic Environments as a Tool to Preserve Desired Output in a Chemical Reaction Network. <i>Chemistry - A European Journal</i> , 2020, 26, 1676-1682.	1.7	8
22	Probing single-cell metabolism reveals prognostic value of highly metabolically active circulating stromal cells in prostate cancer. <i>Science Advances</i> , 2020, 6, .	4.7	22
23	Transcription and Translation in Cytomimetic Protocells Perform Most Efficiently at Distinct Macromolecular Crowding Conditions. <i>ACS Synthetic Biology</i> , 2020, 9, 2797-2807.	1.9	39
24	Autonomous mesoscale positioning emerging from myelin filament self-organization and Marangoni flows. <i>Nature Communications</i> , 2020, 11, 4800.	5.8	25
25	Intelligent Microfluidics: The Convergence of Machine Learning and Microfluidics in Materials Science and Biomedicine. <i>Matter</i> , 2020, 3, 1893-1922.	5.0	85
26	Early warning signals in chemical reaction networks. <i>Chemical Communications</i> , 2020, 56, 3725-3728.	2.2	11
27	Dysmetabolic Circulating Tumor Cells Are Prognostic in Metastatic Breast Cancer. <i>Cancers</i> , 2020, 12, 1005.	1.7	5
28	Modular Design of Small Enzymatic Reaction Networks Based on Reversible and Cleavable Inhibitors. <i>Angewandte Chemie</i> , 2019, 131, 14681-14685.	1.6	3
29	Modular Design of Small Enzymatic Reaction Networks Based on Reversible and Cleavable Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14539-14543.	7.2	15
30	A Multilayer Microfluidic Platform for the Conduction of Prolonged Cell-Free Gene Expression. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	8
31	Catalytic transport of molecular cargo using diffusive binding along a polymer track. <i>Nature Chemistry</i> , 2019, 11, 359-366.	6.6	21
32	<i>ChemSystemsChem</i>: All Systems Go!. <i>ChemSystemsChem</i> , 2019, 1, 3-5.	1.1	1
33	Robustness, Entrainment, and Hybridization in Dissipative Molecular Networks, and the Origin of Life. <i>Journal of the American Chemical Society</i> , 2019, 141, 8289-8295.	6.6	44
34	Branched DNA Architectures Produced by PCR-Based Assembly as Gene Compartments for Cell-Free Gene Expression Reactions. <i>ChemBioChem</i> , 2019, 20, 2597-2603.	1.3	26
35	Combined quantification of intracellular (phospho-)proteins and transcriptomics from fixed single cells. <i>Scientific Reports</i> , 2019, 9, 1469.	1.6	73
36	Cellular Volume and Matrix Stiffness Direct Stem Cell Behavior in a 3D Microniche. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1754-1759.	4.0	66

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37	Cell-free microcompartmentalised transcription-translation for the prototyping of synthetic communication networks. <i>Current Opinion in Biotechnology</i> , 2019, 58, 72-80.	3.3	53
38	On the importance of reaction networks for synthetic living systems. <i>Emerging Topics in Life Sciences</i> , 2019, 3, 517-527.	1.1	10
39	Sigma Factor-Mediated Tuning of Bacterial Cell-Free Synthetic Genetic Oscillators. <i>ACS Synthetic Biology</i> , 2018, 7, 2879-2887.	1.9	29
40	Bottom-Up Construction of an Adaptive Enzymatic Reaction Network. <i>Angewandte Chemie</i> , 2018, 130, 14261-14265.	1.6	10
41	Bottom-Up Construction of an Adaptive Enzymatic Reaction Network. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14065-14069.	7.2	36
42	Fabrication of 3D Tubular Hydrogel Materials through On-Site Surface Free Radical Polymerization. <i>Chemistry of Materials</i> , 2018, 30, 6756-6768.	3.2	32
43	Recent Advances in Engineering the Stem Cell Niche in 3D. <i>Advanced Science</i> , 2018, 5, 1800448.	5.6	83
44	Dissipative adaptation in driven self-assembly leading to self-dividing fibrils. <i>Nature Nanotechnology</i> , 2018, 13, 849-855.	15.6	160
45	Microfluidic-Assisted Fabrication of Clay Microgels for Cell-Free Protein Synthesis. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29308-29313.	4.0	41
46	Single-cell analysis reveals that stochasticity and paracrine signaling control interferon-alpha production by plasmacytoid dendritic cells. <i>Nature Communications</i> , 2018, 9, 3317.	5.8	116
47	Macromolecularly Crowded Protocells from Reversibly Shrinking Monodisperse Liposomes. <i>Journal of the American Chemical Society</i> , 2018, 140, 7399-7402.	6.6	72
48	Preprogramming Complex Hydrogel Responses using Enzymatic Reaction Networks. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1794-1798.	7.2	54
49	Evidence of Ion-Pairing in Cationic Brushes from Evaluation of Brush Charging and Structure by Electrokinetic and Surface Conductivity Analysis. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2915-2922.	1.5	16
50	Preprogramming Complex Hydrogel Responses using Enzymatic Reaction Networks. <i>Angewandte Chemie</i> , 2017, 129, 1820-1824.	1.6	13
51	Collagen Gels with Different Fibrillar Microarchitectures Elicit Different Cellular Responses. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 19630-19637.	4.0	120
52	Microfluidic Assembly of Monodisperse Vesosomes as Artificial Cell Models. <i>Journal of the American Chemical Society</i> , 2017, 139, 587-590.	6.6	217
53	Adaptation trajectories during adhesion and spreading affect future cell states. <i>Scientific Reports</i> , 2017, 7, 12308.	1.6	6
54	Photochemical Control over Oscillations in Chemical Reaction Networks. <i>Journal of the American Chemical Society</i> , 2017, 139, 15296-15299.	6.6	35

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55	A trypsin-based bistable switch. <i>Tetrahedron</i> , 2017, 73, 4896-4900.	1.0	19
56	Rational design and dynamics of self-propelled colloidal bead chains: from rotators to flagella. <i>Scientific Reports</i> , 2017, 7, 16758.	1.6	37
57	3D microniches reveal the importance of cell size and shape. <i>Nature Communications</i> , 2017, 8, 1962.	5.8	145
58	Microfluidic Formation of Monodisperse Coacervate Organelles in Liposomes. <i>Angewandte Chemie</i> , 2017, 129, 9868-9872.	1.6	51
59	Microfluidic Formation of Monodisperse Coacervate Organelles in Liposomes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9736-9740.	7.2	187
60	Grip on complexity in chemical reaction networks. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1486-1497.	1.3	23
61	Molecular Engineering of Robustness and Resilience in Enzymatic Reaction Networks. <i>Journal of the American Chemical Society</i> , 2017, 139, 8146-8151.	6.6	20
62	A Method for Detecting Circulating Tumor Cells Based on the Measurement of Single-Cell Metabolism in Droplet-Based Microfluidics. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8581-8584.	7.2	109
63	A Method for Detecting Circulating Tumor Cells Based on the Measurement of Single-Cell Metabolism in Droplet-Based Microfluidics. <i>Angewandte Chemie</i> , 2016, 128, 8723-8726.	1.6	23
64	The nanotechnology of life-inspired systems. <i>Nature Nanotechnology</i> , 2016, 11, 585-592.	15.6	348
65	Quantitative Single-Cell mRNA Analysis in Hydrogel Beads. <i>Angewandte Chemie</i> , 2016, 128, 6810-6813.	1.6	10
66	Dynamic self-organization of side-propelling colloidal rods: experiments and simulations. <i>Soft Matter</i> , 2016, 12, 9657-9665.	1.2	22
67	A Compartmentalized Out-of-Equilibrium Enzymatic Reaction Network for Sustained Autonomous Movement. <i>ACS Central Science</i> , 2016, 2, 843-849.	5.3	133
68	Quantitative Single-Cell mRNA Analysis in Hydrogel Beads. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6698-6701.	7.2	30
69	Monodisperse Uni- and Multicompartement Liposomes. <i>Journal of the American Chemical Society</i> , 2016, 138, 7584-7591.	6.6	207
70	Cell-Like Nanostructured Environments Alter Diffusion and Reaction Kinetics in Cell-Free Gene Expression. <i>ChemBioChem</i> , 2016, 17, 228-232.	1.3	18
71	Biocompatible fluorinated polyglycerols for droplet microfluidics as an alternative to PEG-based copolymer surfactants. <i>Lab on A Chip</i> , 2016, 16, 65-69.	3.1	74
72	Macromolecular crowding creates heterogeneous environments of gene expression in picolitre droplets. <i>Nature Nanotechnology</i> , 2016, 11, 191-197.	15.6	123

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73	Rational design of functional and tunable oscillating enzymatic networks. <i>Nature Chemistry</i> , 2015, 7, 160-165.	6.6	219
74	Programmable chemical reaction networks: emulating regulatory functions in living cells using a bottom-up approach. <i>Chemical Society Reviews</i> , 2015, 44, 7465-7483.	18.7	123
75	The microenvironment of double emulsions in rectangular microchannels. <i>Lab on A Chip</i> , 2015, 15, 2327-2334.	3.1	26
76	Influence of Molecular Structure on the Properties of Out-of-Equilibrium Oscillating Enzymatic Reaction Networks. <i>Journal of the American Chemical Society</i> , 2015, 137, 12415-12420.	6.6	31
77	Deformation of double emulsions under conditions of flow cytometry hydrodynamic focusing. <i>Lab on A Chip</i> , 2015, 15, 4291-4301.	3.1	27
78	Associative Interactions in Crowded Solutions of Biopolymers Counteract Depletion Effects. <i>Journal of the American Chemical Society</i> , 2015, 137, 13041-13048.	6.6	55
79	One drop at a time: toward droplet microfluidics as a versatile tool for single-cell analysis. <i>NPG Asia Materials</i> , 2014, 6, e133-e133.	3.8	92
80	25th Anniversary Article: Designer Hydrogels for Cell Cultures: A Materials Selection Guide. <i>Advanced Materials</i> , 2014, 26, 125-148.	11.1	368
81	Alterations in Red Blood Cell Deformability during Storage: A Microfluidic Approach. <i>BioMed Research International</i> , 2014, 2014, 1-9.	0.9	45
82	Vesicle budding from polymersomes templated by microfluidically prepared double emulsions. <i>Materials Horizons</i> , 2014, 1, 96-101.	6.4	29
83	Threshold Sensing through a Synthetic Enzymatic Reactionâ€“Diffusion Network. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8066-8069.	7.2	46
84	Interface limited charge extraction and recombination in organic photovoltaics. <i>Energy and Environmental Science</i> , 2014, 7, 2227.	15.6	33
85	Biocompatible macro-initiators controlling radical retention in microfluidic on-chip photo-polymerization of water-in-oil emulsions. <i>Chemical Communications</i> , 2014, 50, 112-114.	2.2	43
86	Fluorescent hydrogels for studying Ca <sup>2+</sup> -dependent reactionâ€“diffusion processes. <i>Chemical Communications</i> , 2014, 50, 3089-3092.	2.2	3
87	An electro-coalescence chip for effective emulsion breaking in droplet microfluidics. <i>Lab on A Chip</i> , 2014, 14, 2398-2402.	3.1	29
88	On the flow topology inside droplets moving in rectangular microchannels. <i>Lab on A Chip</i> , 2014, 14, 3611-3620.	3.1	91
89	Complexity of molecular crowding in cell-free enzymatic reaction networks. <i>Nature Nanotechnology</i> , 2014, 9, 406-407.	15.6	17
90	Role of the extracellular matrix in regulating stem cell fate. <i>Nature Reviews Molecular Cell Biology</i> , 2013, 14, 467-473.	16.1	732

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91	Ultrarapid Generation of Femtoliter Microfluidic Droplets for Single-Molecule-Counting Immunoassays. <i>ACS Nano</i> , 2013, 7, 5955-5964.	7.3	188
92	Decoupling geometrical and chemical cues directing epidermal stem cell fate on polymer brush-based cell micro-patterns. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 899-910.	0.6	45
93	Controlled Polymer Brush Growth from Microliter Volumes using Sacrificial Anode Atom Transfer Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9125-9129.	7.2	66
94	Probing cellular heterogeneity in cytokine-secreting immune cells using droplet-based microfluidics. <i>Lab on A Chip</i> , 2013, 13, 4740.	3.1	204
95	Self-organization of the bacterial cell-division protein FtsZ in confined environments. <i>Soft Matter</i> , 2013, 9, 10493.	1.2	34
96	Monodisperse collagen gelatin beads as potential platforms for 3D cell culturing. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5128.	2.9	75
97	All-polymer field-effect transistors using a brush gate dielectric. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7736.	2.7	7
98	Panchromatic Dye-Doped Polymer Solar Cells: From Femtosecond Energy Relays to Enhanced Photo-Response. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 442-447.	2.1	14
99	Ultrasensitivity by Molecular Titration in Spatially Propagating Enzymatic Reactions. <i>Biophysical Journal</i> , 2013, 105, 1057-1066.	0.2	25
100	Donor-acceptor interface modification by zwitterionic conjugated polyelectrolytes in polymer photovoltaics. <i>Energy and Environmental Science</i> , 2013, 6, 1589.	15.6	46
101	Electrochemically Mediated Atom Transfer Radical Polymerization on Nonconducting Substrates: Controlled Brush Growth through Catalyst Diffusion. <i>Journal of the American Chemical Society</i> , 2013, 135, 1708-1710.	6.6	176
102	Sensitive, High Throughput Detection of Proteins in Individual, Surfactant-Stabilized Picoliter Droplets Using Nano-electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 3812-3816.	3.2	72
103	Learning a New Language: Moving Countries and Changing Subjects. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13110-13111.	7.2	5
104	Intra-Species Bacterial Quorum Sensing Studied at Single Cell Level in a Double Droplet Trapping System. <i>International Journal of Molecular Sciences</i> , 2013, 14, 10570-10581.	1.8	23
105	Enhanced transcription rates in membrane-free protocells formed by coacervation of cell lysate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11692-11697.	3.3	282
106	Eine neue Sprache lernen: das Land und das Thema wechseln. <i>Angewandte Chemie</i> , 2013, 125, 13348-13349.	1.6	2
107	Monodisperse Water-in-Oil-in-Water (W/O/W) Double Emulsion Droplets as Uniform Compartments for High-Throughput Analysis via Flow Cytometry. <i>Micromachines</i> , 2013, 4, 402-413.	1.4	43
108	Microfluidic platform for combinatorial synthesis in picolitre droplets. <i>Lab on A Chip</i> , 2012, 12, 1320.	3.1	87

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109	Extracellular-matrix tethering regulates stem-cell fate. <i>Nature Materials</i> , 2012, 11, 642-649.	13.3	1,346
110	On the Role of Single Regiodefects and Polydispersity in Regioregular Poly(3-hexylthiophene): Defect Distribution, Synthesis of Defect-Free Chains, and a Simple Model for the Determination of Crystallinity. <i>Journal of the American Chemical Society</i> , 2012, 134, 4790-4805.	6.6	185
111	Synthesis, Purification, and Characterization of Well-Defined All-Conjugated Diblock Copolymers PF8TBT- <i>b</i> -P3HT. <i>Macromolecules</i> , 2012, 45, 4142-4151.	2.2	88
112	Fabrication of Microgel Particles with Complex Shape via Selective Polymerization of Aqueous Two-Phase Systems. <i>Small</i> , 2012, 8, 2356-2360.	5.2	121
113	Formation of Spherical and Non-Spherical Eutectic Gallium-Indium Liquid-Metal Microdroplets in Microfluidic Channels at Room Temperature. <i>Advanced Functional Materials</i> , 2012, 22, 2624-2631.	7.8	125
114	Investigation of "On Water" Conditions Using a Biphasic Fluidic Platform. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7981-7984.	7.2	63
115	Electrochemically Induced Surface-Initiated Atom-Transfer Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5092-5095.	7.2	147
116	Mimicking normal tissue architecture and perturbation in cancer with engineered micro-epidermis. <i>Biomaterials</i> , 2012, 33, 5221-5229.	5.7	44
117	Island brushes to control adhesion of water in oil droplets on planar surfaces. <i>Soft Matter</i> , 2011, 7, 7013.	1.2	13
118	Microfluidic production of monodisperse functional o/w droplets and study of their reversible pH dependent aggregation behavior. <i>Soft Matter</i> , 2011, 7, 4214.	1.2	25
119	Conjugated Zwitterionic Polyelectrolyte as the Charge Injection Layer for High-Performance Polymer Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2011, 133, 683-685.	6.6	189
120	Monitoring a Reaction at Submillisecond Resolution in Picoliter Volumes. <i>Analytical Chemistry</i> , 2011, 83, 1462-1468.	3.2	53
121	Quantitative tracking of the growth of individual algal cells in microdroplet compartments. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 1043.	0.6	84
122	Microdroplet fabrication of silver-agarose nanocomposite beads for SERS optical accumulation. <i>Soft Matter</i> , 2011, 7, 1321-1325.	1.2	39
123	Effect of Polymer Brush Architecture on Antibiofouling Properties. <i>Biomacromolecules</i> , 2011, 12, 4169-4172.	2.6	145
124	Controlling the contents of microdroplets by exploiting the permeability of PDMS. <i>Lab on A Chip</i> , 2011, 11, 1132.	3.1	35
125	Chain-Growth Polymerization of Unusual Anion-Radical Monomers Based on Naphthalene Diimide: A New Route to Well-Defined n-Type Conjugated Copolymers. <i>Journal of the American Chemical Society</i> , 2011, 133, 19966-19970.	6.6	128
126	Chain-Growth Suzuki Polymerization of n-Type Fluorene Copolymers. <i>Macromolecules</i> , 2011, 44, 9057-9061.	2.2	122



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127	Polymer Brushes Showing Non-Fouling in Blood Plasma Challenge the Currently Accepted Design of Protein Resistant Surfaces. <i>Macromolecular Rapid Communications</i> , 2011, 32, 952-957.	2.0	184
128	Formation of Well-Ordered Heterojunctions in Polymer:PCBM Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2011, 21, 139-146.	7.8	78
129	Controlled Folding of 2D Au-Polymer Brush Composites into 3D Microstructures. <i>Advanced Functional Materials</i> , 2011, 21, 652-657.	7.8	76
130	Direct Correlation between Local Pressure and Fluorescence Output in Mechanoresponsive Polyelectrolyte Brushes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9629-9632.	7.2	28
131	Hydrophilic PDMS microchannels for high-throughput formation of oil-in-water microdroplets and water-in-oil-in-water double emulsions. <i>Lab on A Chip</i> , 2010, 10, 1814.	3.1	203
132	Controlling nanoscale morphology in polymer photovoltaic devices. <i>Nano Today</i> , 2010, 5, 231-242.	6.2	97
133	Fabrication of Sub-10-nm Metallic Lines of Low Line-Width Roughness by Hydrogen Reduction of Patterned Metal-Organic Materials. <i>Advanced Functional Materials</i> , 2010, 20, 2317-2323.	7.8	22
134	Nanowires: Fabrication of Sub-10-nm Metallic Lines of Low Line-Width Roughness by Hydrogen Reduction of Patterned Metal-Organic Materials ( <i>Adv. Funct. Mater.</i> 14/2010). <i>Advanced Functional Materials</i> , 2010, 20, n/a-n/a.	7.8	0
135	Microdroplets in Microfluidics: An Evolving Platform for Discoveries in Chemistry and Biology. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5846-5868.	7.2	903
136	Exploiting the superior protein resistance of polymer brushes to control single cell adhesion and polarisation at the micron scale. <i>Biomaterials</i> , 2010, 31, 5030-5041.	5.7	99
137	Actin and serum response factor transduce physical cues from the microenvironment to regulate epidermal stem cell fate decisions. <i>Nature Cell Biology</i> , 2010, 12, 711-718.	4.6	414
138	Emerging applications of stimuli-responsive polymer materials. <i>Nature Materials</i> , 2010, 9, 101-113.	13.3	5,007
139	Polymer Brushes: Routes toward Mechanosensitive Surfaces. <i>Accounts of Chemical Research</i> , 2010, 43, 466-474.	7.6	79
140	A double droplet trap system for studying mass transport across a droplet-droplet interface. <i>Lab on A Chip</i> , 2010, 10, 1281.	3.1	138
141	Controlled Bending of Microscale Au-Polyelectrolyte Brush Bilayers. <i>Macromolecules</i> , 2010, 43, 5382-5386.	2.2	25
142	Polyelectrolyte-Bridged Metal/Cotton Hierarchical Structures for Highly Durable Conductive Yarns. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 529-535.	4.0	184
143	Convenient Route To Initiate Kumada Catalyst-Transfer Polycondensation Using Ni(dppe)Cl <sub>2</sub> or Ni(dppp)Cl <sub>2</sub> and Sterically Hindered Grignard Compounds. <i>Macromolecules</i> , 2010, 43, 10157-10161.	2.2	103
144	Formation of Nanopatterned Polymer Blends in Photovoltaic Devices. <i>Nano Letters</i> , 2010, 10, 1302-1307.	4.5	248

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145	Synthesis and characterization of low bandgap conjugated donor-acceptor polymers for polymer:PCBM solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 9231.	6.7	28
146	Biofunctionalized Protein Resistant Oligo(ethylene glycol)-Derived Polymer Brushes as Selective Immobilization and Sensing Platforms. <i>Biomacromolecules</i> , 2009, 10, 2885-2894.	2.6	100
147	Formation of Hierarchically Structured Thin Films. <i>Advanced Functional Materials</i> , 2009, 19, 2236-2243.	7.8	35
148	Coupling Microdroplet Microreactors with Mass Spectrometry: Reading the Contents of Single Droplets Online. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3665-3668.	7.2	162
149	Direct Measurement of Normal and Shear Forces between Surface-Grown Polyelectrolyte Layers. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3947-3956.	1.2	67
150	Surface modification of PDMS via self-organization of vinyl-terminated small molecules. <i>Soft Matter</i> , 2009, 5, 2286.	1.2	33
151	Simultaneous Determination of Gene Expression and Enzymatic Activity in Individual Bacterial Cells in Microdroplet Compartments. <i>Journal of the American Chemical Society</i> , 2009, 131, 15251-15256.	6.6	151
152	Antibacterial and Antifouling Polymer Brushes Incorporating Antimicrobial Peptide. <i>Bioconjugate Chemistry</i> , 2009, 20, 71-77.	1.8	232
153	Suzuki-Miyaura coupling reactions in aqueous microdroplets with catalytically active fluorine interfaces. <i>Chemical Communications</i> , 2009, , 6225.	2.2	65
154	Polymer brush resist for responsive wettability. <i>Soft Matter</i> , 2009, 5, 2738.	1.2	54
155	Simultaneous measurement of reactions in microdroplets filled by concentration gradients. <i>Lab on a Chip</i> , 2009, 9, 1707.	3.1	65
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