

Wilhelm T S Huck

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.

218
papers

24,330
citations

82
h-index

153
g-index

236
ext. papers

26,573
ext. citations

10.7
avg, IF

7.09
L-index

#	Paper	IF	Citations
218	Photoswitchable Molecular Communication between Programmable DNA-based Artificial Membraneless Organelles.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	7
217	The Effect of Geometry and TGF- β Signaling on Tumor Cell Migration from Free-standing Microtissues.. <i>Advanced Healthcare Materials</i> , 2022 , e2102696	10.1	
216	A short peptide synthon for liquid-liquid phase separation. <i>Nature Chemistry</i> , 2021 , 13, 1046-1054	17.6	15
215	Reversible Photoswitchable Inhibitors Generate Ultrasensitivity in Out-of-Equilibrium Enzymatic Reactions. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5709-5716	16.4	1
214	Cell-Free Characterization of Coherent Feed-Forward Loop-Based Synthetic Genetic Circuits. <i>ACS Synthetic Biology</i> , 2021 , 10, 1406-1416	5.7	4
213	Microfabricated Gaps Reveal the Effect of Geometrical Control in Wound Healing. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2000630	10.1	7
212	The Dynamics of an Oscillating Enzymatic Reaction Network is Crucially Determined by Side Reactions. <i>ChemSystemsChem</i> , 2021 , 3, e2000033	3.1	0
211	Energy expenditure during cell spreading influences the cellular response to matrix stiffness. <i>Biomaterials</i> , 2021 , 267, 120494	15.6	14
210	One-Step Generation of Multisomes from Lipid-Stabilized Double Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6739-6747	9.5	3
209	A physicochemical orthophosphate cycle via a kinetically stable thermodynamically activated intermediate enables mild prebiotic phosphorylations. <i>Nature Communications</i> , 2021 , 12, 5517	17.4	2
208	Single-cell intracellular epitope and transcript detection reveals signal transduction dynamics.. <i>Cell Reports Methods</i> , 2021 , 1, 100070		4
207	Early warning signals in chemical reaction networks. <i>Chemical Communications</i> , 2020 , 56, 3725-3728	5.8	1
206	Dysmetabolic Circulating Tumor Cells Are Prognostic in Metastatic Breast Cancer. <i>Cancers</i> , 2020 , 12,	6.6	3
205	Single-Cell Analysis Using Droplet Microfluidics. <i>Advanced Biology</i> , 2020 , 4, e1900188	3.5	69
204	Dynamic Environments as a Tool to Preserve Desired Output in a Chemical Reaction Network. <i>Chemistry - A European Journal</i> , 2020 , 26, 1676-1682	4.8	3
203	Probing single-cell metabolism reveals prognostic value of highly metabolically active circulating stromal cells in prostate cancer. <i>Science Advances</i> , 2020 , 6,	14.3	6
202	Transcription and Translation in Cytomimetic Protocells Perform Most Efficiently at Distinct Macromolecular Crowding Conditions. <i>ACS Synthetic Biology</i> , 2020 , 9, 2797-2807	5.7	15

201	Autonomous mesoscale positioning emerging from myelin filament self-organization and Marangoni flows. <i>Nature Communications</i> , 2020 , 11, 4800	17.4	8
200	Intelligent Microfluidics: The Convergence of Machine Learning and Microfluidics in Materials Science and Biomedicine. <i>Matter</i> , 2020 , 3, 1893-1922	12.7	26
199	Catalytic transport of molecular cargo using diffusive binding along a polymer track. <i>Nature Chemistry</i> , 2019 , 11, 359-366	17.6	12
198	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	16.4	23
197	Branched DNA Architectures Produced by PCR-Based Assembly as Gene Compartments for Cell-Free Gene-Expression Reactions. <i>ChemBioChem</i> , 2019 , 20, 2597-2603	3.8	16
196	Combined quantification of intracellular (phospho-)proteins and transcriptomics from fixed single cells. <i>Scientific Reports</i> , 2019 , 9, 1469	4.9	37
195	Modular Design of Small Enzymatic Reaction Networks Based on Reversible and Cleavable Inhibitors. <i>Angewandte Chemie</i> , 2019 , 131, 14681-14685	3.6	0
194	Modular Design of Small Enzymatic Reaction Networks Based on Reversible and Cleavable Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14539-14543	16.4	8
193	A Multilayer Microfluidic Platform for the Conduction of Prolonged Cell-Free Gene Expression. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	4
192	On the importance of reaction networks for synthetic living systems. <i>Emerging Topics in Life Sciences</i> , 2019 , 3, 517-527	3.5	6
191	Cellular Volume and Matrix Stiffness Direct Stem Cell Behavior in a 3D Microniche. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1754-1759	9.5	40
190	Cell-free microcompartmentalised transcription-translation for the prototyping of synthetic communication networks. <i>Current Opinion in Biotechnology</i> , 2019 , 58, 72-80	11.4	36
189	Recent Advances in Engineering the Stem Cell Microniche in 3D. <i>Advanced Science</i> , 2018 , 5, 1800448	13.6	53
188	Dissipative adaptation in driven self-assembly leading to self-dividing fibrils. <i>Nature Nanotechnology</i> , 2018 , 13, 849-855	28.7	104
187	Microfluidic-Assisted Fabrication of Clay Microgels for Cell-Free Protein Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29308-29313	9.5	33
186	Single-cell analysis reveals that stochasticity and paracrine signaling control interferon-alpha production by plasmacytoid dendritic cells. <i>Nature Communications</i> , 2018 , 9, 3317	17.4	68
185	Macromolecularly Crowded Protocells from Reversibly Shrinking Monodisperse Liposomes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7399-7402	16.4	52
184	Sigma Factor-Mediated Tuning of Bacterial Cell-Free Synthetic Genetic Oscillators. <i>ACS Synthetic Biology</i> , 2018 , 7, 2879-2887	5.7	15

183	Bottom-Up Construction of an Adaptive Enzymatic Reaction Network. <i>Angewandte Chemie</i> , 2018 , 130, 14261-14265	3.6	6
182	Bottom-Up Construction of an Adaptive Enzymatic Reaction Network. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14065-14069	16.4	18
181	Fabrication of 3D Tubular Hydrogel Materials through On-Site Surface Free Radical Polymerization. <i>Chemistry of Materials</i> , 2018 , 30, 6756-6768	9.6	22
180	Preprogramming Complex Hydrogel Responses using Enzymatic Reaction Networks. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1794-1798	16.4	40
179	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	3.8	12
178	Preprogramming Complex Hydrogel Responses using Enzymatic Reaction Networks. <i>Angewandte Chemie</i> , 2017 , 129, 1820-1824	3.6	10
177	Collagen Gels with Different Fibrillar Microarchitectures Elicit Different Cellular Responses. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19630-19637	9.5	73
176	Microfluidic Assembly of Monodisperse Vesosomes as Artificial Cell Models. <i>Journal of the American Chemical Society</i> , 2017 , 139, 587-590	16.4	164
175	Adaptation trajectories during adhesion and spreading affect future cell states. <i>Scientific Reports</i> , 2017 , 7, 12308	4.9	6
174	Photochemical Control over Oscillations in Chemical Reaction Networks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15296-15299	16.4	24
173	Grip on complexity in chemical reaction networks. <i>Beilstein Journal of Organic Chemistry</i> , 2017 , 13, 1486-1497	14.97	12
172	A trypsin-based bistable switch. <i>Tetrahedron</i> , 2017 , 73, 4896-4900	2.4	13
171	Rational design and dynamics of self-propelled colloidal bead chains: from rotators to flagella. <i>Scientific Reports</i> , 2017 , 7, 16758	4.9	24
170	3D microniches reveal the importance of cell size and shape. <i>Nature Communications</i> , 2017 , 8, 1962	17.4	95
169	Microfluidic Formation of Monodisperse Coacervate Organelles in Liposomes. <i>Angewandte Chemie</i> , 2017 , 129, 9868-9872	3.6	33
168	Microfluidic Formation of Monodisperse Coacervate Organelles in Liposomes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9736-9740	16.4	130
167	Molecular Engineering of Robustness and Resilience in Enzymatic Reaction Networks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8146-8151	16.4	14
166	Dynamic self-organization of side-propelling colloidal rods: experiments and simulations. <i>Soft Matter</i> , 2016 , 12, 9657-9665	3.6	16

165	A Compartmentalized Out-of-Equilibrium Enzymatic Reaction Network for Sustained Autonomous Movement. <i>ACS Central Science</i> , 2016 , 2, 843-849	16.8	117
164	Quantitative Single-Cell mRNA Analysis in Hydrogel Beads. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6698-701	16.4	20
163	Monodisperse Uni- and Multicompartment Liposomes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7584-91	16.4	148
162	Cell-Like Nanostructured Environments Alter Diffusion and Reaction Kinetics in Cell-Free Gene Expression. <i>ChemBioChem</i> , 2016 , 17, 228-32	3.8	12
161	Biocompatible fluorinated polyglycerols for droplet microfluidics as an alternative to PEG-based copolymer surfactants. <i>Lab on A Chip</i> , 2016 , 16, 65-9	7.2	55
160	Macromolecular crowding creates heterogeneous environments of gene expression in picolitre droplets. <i>Nature Nanotechnology</i> , 2016 , 11, 191-7	28.7	100
159	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, 8581-4	16.4	73
158	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	3.6	14
157	The nanotechnology of life-inspired systems. <i>Nature Nanotechnology</i> , 2016 , 11, 585-92	28.7	268
156	Quantitative Single-Cell mRNA Analysis in Hydrogel Beads. <i>Angewandte Chemie</i> , 2016 , 128, 6810-6813	3.6	10
155	Rational design of functional and tunable oscillating enzymatic networks. <i>Nature Chemistry</i> , 2015 , 7, 160-5	17.6	174
154	Programmable chemical reaction networks: emulating regulatory functions in living cells using a bottom-up approach. <i>Chemical Society Reviews</i> , 2015 , 44, 7465-83	58.5	97
153	The microenvironment of double emulsions in rectangular microchannels. <i>Lab on A Chip</i> , 2015 , 15, 2327-34	7.4	17
152	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, 12415-20	16.4	24
151	Deformation of double emulsions under conditions of flow cytometry hydrodynamic focusing. <i>Lab on A Chip</i> , 2015 , 15, 4291-301	7.2	16
150	Associative Interactions in Crowded Solutions of Biopolymers Counteract Depletion Effects. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13041-8	16.4	37
149	Threshold sensing through a synthetic enzymatic reaction-diffusion network. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8066-9	16.4	36
148	Interface limited charge extraction and recombination in organic photovoltaics. <i>Energy and Environmental Science</i> , 2014 , 7, 2227	35.4	32

147	Biocompatible macro-initiators controlling radical retention in microfluidic on-chip photo-polymerization of water-in-oil emulsions. <i>Chemical Communications</i> , 2014 , 50, 112-4	5.8	35
146	Fluorescent hydrogels for studying Ca(2+)-dependent reaction-diffusion processes. <i>Chemical Communications</i> , 2014 , 50, 3089-92	5.8	3
145	An electro-coalescence chip for effective emulsion breaking in droplet microfluidics. <i>Lab on A Chip</i> , 2014 , 14, 2398-402	7.2	24
144	On the flow topology inside droplets moving in rectangular microchannels. <i>Lab on A Chip</i> , 2014 , 14, 3611-20	7.2	68
143	Complexity of molecular crowding in cell-free enzymatic reaction networks. <i>Nature Nanotechnology</i> , 2014 , 9, 406-7	28.7	16
142	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	10.3	74
141	Threshold Sensing through a Synthetic Enzymatic Reaction-Diffusion Network. <i>Angewandte Chemie</i> , 2014 , 126, 8204-8207	3.6	10
140	25th anniversary article: Designer hydrogels for cell cultures: a materials selection guide. <i>Advanced Materials</i> , 2014 , 26, 125-47	24	302
139	Alterations in red blood cell deformability during storage: a microfluidic approach. <i>BioMed Research International</i> , 2014 , 2014, 764268	3	36
138	Vesicle budding from polymersomes templated by microfluidically prepared double emulsions. <i>Materials Horizons</i> , 2014 , 1, 96-101	14.4	24
137	Role of the extracellular matrix in regulating stem cell fate. <i>Nature Reviews Molecular Cell Biology</i> , 2013 , 14, 467-73	48.7	590
136	Ultrarapid generation of femtoliter microfluidic droplets for single-molecule-counting immunoassays. <i>ACS Nano</i> , 2013 , 7, 5955-64	16.7	141
135	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	3.7	38
134	Controlled polymer-brush growth from microliter volumes using sacrificial-anode atom-transfer radical polymerization. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9125-9	16.4	53
133	Probing cellular heterogeneity in cytokine-secreting immune cells using droplet-based microfluidics. <i>Lab on A Chip</i> , 2013 , 13, 4740-4	7.2	157
132	Self-organization of the bacterial cell-division protein FtsZ in confined environments. <i>Soft Matter</i> , 2013 , 9, 10493	3.6	30
131	Monodisperse collagen-gelatin beads as potential platforms for 3D cell culturing. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5128-5136	7.3	64
130	All-polymer field-effect transistors using a brush gate dielectric. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7736	7.1	7

129	Panchromatic "Dye-Doped" Polymer Solar Cells: From Femtosecond Energy Relays to Enhanced Photo-Response. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 442-7	6.4	13
128	Ultrasensitivity by molecular titration in spatially propagating enzymatic reactions. <i>Biophysical Journal</i> , 2013 , 105, 1057-66	2.9	21
127	Donor-acceptor interface modification by zwitterionic conjugated polyelectrolytes in polymer photovoltaics. <i>Energy and Environmental Science</i> , 2013 , 6, 1589	35.4	46
126	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, 1708-10	16.4	148
125	Sensitive, high throughput detection of proteins in individual, surfactant-stabilized picoliter droplets using nanoelectrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 3812-6	7.8	50
124	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, 10570-81	6.3	18
123	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, 11692-7	11.5	220
122	Innenfunktionalbild: Controlled Polymer-Brush Growth from Microliter Volumes using Sacrificial-Anode Atom-Transfer Radical Polymerization (Angew. Chem. 35/2013). <i>Angewandte Chemie</i> , 2013 , 125, 9501-9501	3.6	
121	Controlled Polymer-Brush Growth from Microliter Volumes using Sacrificial-Anode Atom-Transfer Radical Polymerization. <i>Angewandte Chemie</i> , 2013 , 125, 9295-9299	3.6	5
120	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	3.3	30
119	Mimicking normal tissue architecture and perturbation in cancer with engineered micro-epidermis. <i>Biomaterials</i> , 2012 , 33, 5221-9	15.6	36
118	Microfluidic platform for combinatorial synthesis in picolitre droplets. <i>Lab on A Chip</i> , 2012 , 12, 1320-6	7.2	77
117	Extracellular-matrix tethering regulates stem-cell fate. <i>Nature Materials</i> , 2012 , 11, 642-9	27	1156
116	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, 4790-805	16.4	163
115	Synthesis, Purification, and Characterization of Well-Defined All-Conjugated Diblock Copolymers PF8TBT-b-P3HT. <i>Macromolecules</i> , 2012 , 45, 4142-4151	5.5	82
114	Fabrication of microgel particles with complex shape via selective polymerization of aqueous two-phase systems. <i>Small</i> , 2012 , 8, 2356-60	11	98
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	15.6	86
112	Investigation of On Water-Conditions Using a Biphasic Fluidic Platform. <i>Angewandte Chemie</i> , 2012 , 124, 8105-8108	3.6	16

111	Electrochemically Induced Surface-Initiated Atom-Transfer Radical Polymerization. <i>Angewandte Chemie</i> , 2012 , 124, 5182-5185	3.6	42
110	Investigation of "on water" conditions using a biphasic fluidic platform. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7981-4	16.4	55
109	Electrochemically induced surface-initiated atom-transfer radical polymerization. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5092-5	16.4	127
108	Quantitative tracking of the growth of individual algal cells in microdroplet compartments. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 1043-51	3.7	74
107	Microdroplet fabrication of silver@agarose nanocomposite beads for SERS optical accumulation. <i>Soft Matter</i> , 2011 , 7, 1321-1325	3.6	35
106	Effect of polymer brush architecture on antibiofouling properties. <i>Biomacromolecules</i> , 2011 , 12, 4169-726.9	12.1	
105	Controlling the contents of microdroplets by exploiting the permeability of PDMS. <i>Lab on A Chip</i> , 2011 , 11, 1132-7	7.2	30
104	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, 19966-70	16.4	121
103	Chain-Growth Suzuki Polymerization of n-Type Fluorene Copolymers. <i>Macromolecules</i> , 2011 , 44, 9057-9064	10.5	105
102	Polymer brushes showing non-fouling in blood plasma challenge the currently accepted design of protein resistant surfaces. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 952-7	4.8	164
101	Formation of Well-Ordered Heterojunctions in Polymer:PCBM Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2011 , 21, 139-146	15.6	76
100	Controlled Folding of 2D Au Polymer Brush Composites into 3D Microstructures. <i>Advanced Functional Materials</i> , 2011 , 21, 652-657	15.6	71
99	Direct Correlation between Local Pressure and Fluorescence Output in Mechanoresponsive Polyelectrolyte Brushes. <i>Angewandte Chemie</i> , 2011 , 123, 9803-9806	3.6	2
98	Direct correlation between local pressure and fluorescence output in mechanoresponsive polyelectrolyte brushes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9629-32	16.4	22
97	Island brushes to control adhesion of water in oil droplets on planar surfaces. <i>Soft Matter</i> , 2011 , 7, 7013	3.6	12
96	Microfluidic production of monodisperse functional o/w droplets and study of their reversible pH dependent aggregation behavior. <i>Soft Matter</i> , 2011 , 7, 4214	3.6	23
95	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, 683-5	16.4	174
94	Monitoring a reaction at submillisecond resolution in picoliter volumes. <i>Analytical Chemistry</i> , 2011 , 83, 1462-8	7.8	43

93	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, 711-8	23.4	351
92	Emerging applications of stimuli-responsive polymer materials. <i>Nature Materials</i> , 2010 , 9, 101-13	27	4474
91	Polymer brushes: routes toward mechanosensitive surfaces. <i>Accounts of Chemical Research</i> , 2010 , 43, 466-74	24.3	70
90	A double droplet trap system for studying mass transport across a droplet-droplet interface. <i>Lab on A Chip</i> , 2010 , 10, 1281-5	7.2	114
89	Controlled Bending of Microscale Au/Polyelectrolyte Brush Bilayers. <i>Macromolecules</i> , 2010 , 43, 5382-5386	6.5	24
88	Polyelectrolyte-bridged metal/cotton hierarchical structures for highly durable conductive yarns. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 529-35	9.5	167
87	Convenient Route To Initiate Kumada Catalyst-Transfer Polycondensation Using Ni(dppe)Cl ₂ or Ni(dppp)Cl ₂ and Sterically Hindered Grignard Compounds. <i>Macromolecules</i> , 2010 , 43, 10157-10161	5.5	97
86	Formation of nanopatterned polymer blends in photovoltaic devices. <i>Nano Letters</i> , 2010 , 10, 1302-7	11.5	236
85	Synthesis and characterization of low bandgap conjugated donor-acceptor polymers for polymer:PCBM solar cells. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9231		27
84	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, 1814-9	7.2	174
83	Controlling nanoscale morphology in polymer photovoltaic devices. <i>Nano Today</i> , 2010 , 5, 231-242	17.9	93
82	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	15.6	21
81	Microdroplets in microfluidics: an evolving platform for discoveries in chemistry and biology. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5846-68	16.4	782
80	Exploiting the superior protein resistance of polymer brushes to control single cell adhesion and polarisation at the micron scale. <i>Biomaterials</i> , 2010 , 31, 5030-41	15.6	85
79	Biofunctionalized protein resistant oligo(ethylene glycol)-derived polymer brushes as selective immobilization and sensing platforms. <i>Biomacromolecules</i> , 2009 , 10, 2885-94	6.9	91
78	Formation of Hierarchically Structured Thin Films. <i>Advanced Functional Materials</i> , 2009 , 19, 2236-2243	15.6	35
77	Coupling microdroplet microreactors with mass spectrometry: reading the contents of single droplets online. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3665-8	16.4	146
76	Direct measurement of normal and shear forces between surface-grown polyelectrolyte layers. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 3947-56	3.4	65

75	Surface modification of PDMS via self-organization of vinyl-terminated small molecules. <i>Soft Matter</i> , 2009 , 5, 2286	3.6	31
74	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, 15251-6	16.4	138
73	Antibacterial and antifouling polymer brushes incorporating antimicrobial peptide. <i>Bioconjugate Chemistry</i> , 2009 , 20, 71-7	6.3	218
72	Suzuki-Miyaura coupling reactions in aqueous microdroplets with catalytically active fluoros interfaces. <i>Chemical Communications</i> , 2009 , 6225-7	5.8	59
71	Polymer brush resist for responsive wettability. <i>Soft Matter</i> , 2009 , 5, 2738	3.6	50
70	Simultaneous measurement of reactions in microdroplets filled by concentration gradients. <i>Lab on A Chip</i> , 2009 , 9, 1707-13	7.2	58
69	The switching properties of chiral nematic liquid crystals using electrically commanded surfaces. <i>Soft Matter</i> , 2009 , 5, 354-362	3.6	30
68	Controlling the retention of small molecules in emulsion microdroplets for use in cell-based assays. <i>Analytical Chemistry</i> , 2009 , 81, 3008-16	7.8	161
67	Thickness-Dependent Properties of Polyzwitterionic Brushes. <i>Macromolecules</i> , 2008 , 41, 6317-6321	5.5	102
66	The electrochemical detection of droplets in microfluidic devices. <i>Lab on A Chip</i> , 2008 , 8, 1937-42	7.2	64
65	Synthesis and Characterization of Surface-Initiated Helical Polyisocyanopeptide Brushes. <i>Macromolecules</i> , 2008 , 41, 1945-1951	5.5	25
64	Effect of nanoconfinement on the collapse transition of responsive polymer brushes. <i>Nano Letters</i> , 2008 , 8, 3819-24	11.5	80
63	Development of quantitative cell-based enzyme assays in microdroplets. <i>Analytical Chemistry</i> , 2008 , 80, 3890-6	7.8	177
62	Polyelectrolyte brush amplified electroactuation of microcantilevers. <i>Nano Letters</i> , 2008 , 8, 725-30	11.5	103
61	Responsive polymers for nanoscale actuation. <i>Materials Today</i> , 2008 , 11, 24-32	21.8	128
60	Exploring Actuation and Mechanotransduction Properties of Polymer Brushes. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 539-546	4.8	40
59	An integrated device for monitoring time-dependent in vitro expression from single genes in picolitre droplets. <i>ChemBioChem</i> , 2008 , 9, 439-46	3.8	158
58	From microdroplets to microfluidics: selective emulsion separation in microfluidic devices. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2042-5	16.4	134

57	Efficient Conjugated-Polymer Optoelectronic Devices Fabricated by Thin-Film Transfer-Printing Technique. <i>Advanced Functional Materials</i> , 2008 , 18, 1012-1019	15.6	115
56	Synthesis of raspberry-like particles using polyelectrolyte multilayer-coated particles. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4943		29
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