

Frieder Mugele

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.

242
papers

9,150
citations

50
h-index

86
g-index

258
ext. papers

10,239
ext. citations

5.4
avg, IF

6.52
L-index

#	Paper	IF	Citations
242	Correlation between Electrostatic and Hydration Forces on Silica and Gibbsite Surfaces: An Atomic Force Microscopy Study.. <i>Langmuir</i> , 2022 ,	4	5
241	Effects of Fluid Aging and Reservoir Temperature on Waterflooding in 2.5D Glass Micromodels. <i>Energy & Fuels</i> , 2022 , 36, 1388-1401	4.1	0
240	Roughness induced rotational slowdown near the colloidal glass transition. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 1709-1716	9.3	0
239	Absence of anomalous underscreening in highly concentrated aqueous electrolytes confined between smooth silica surfaces.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 819-827	9.3	0
238	Facet-Dependent Surface Charge and Hydration of Semiconducting Nanoparticles at Variable pH. <i>Advanced Materials</i> , 2021 , 33, e2106229	24	8
237	Nonmonotonic Coupled Dissolution-Precipitation Reactions at the Mineral-Water Interface. <i>Advanced Functional Materials</i> , 2021 , 31, 2106396	15.6	1
236	In-situ observation of reactive wettability alteration using algorithm-improved confocal Raman microscopy. <i>Journal of Colloid and Interface Science</i> , 2021 , 584, 551-560	9.3	5
235	Electrowetting-Assisted Generation of Ultrastable High Charge Densities in Composite Silicon Oxide-Fluoropolymer Electret Samples for Electric Nanogenerators. <i>Advanced Functional Materials</i> , 2021 , 31, 2007872	15.6	7
234	Ultrasensitive Detection and In Situ Imaging of Analytes on Graphene Oxide Analogues Using Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2021 , 93, 12966-12972	7.8	
233	Towards enhanced oil recovery: Effects of ionic valency and pH on the adsorption of hydrolyzed polyacrylamide at model surfaces using QCM-D. <i>Applied Surface Science</i> , 2021 , 560, 149995	6.7	1
232	Response of crude oil deposited organic layers to brines of different salinity: An atomic force microscopy study on carbonate surfaces. <i>Fuel</i> , 2021 , 302, 121129	7.1	1
231	Electrowetting-Controlled Dropwise Condensation with Patterned Electrodes: Physical Principles, Modeling, and Application Perspectives. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001317	4.6	1
230	Nonmonotonic Coupled Dissolution-Precipitation Reactions at the Mineral-Water Interface (Adv. Funct. Mater. 51/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170379	15.6	
229	Wetting ridge assisted programmed magnetic actuation of droplets on ferrofluid-infused surface. <i>Nature Communications</i> , 2021 , 12, 7136	17.4	12
228	Facet-Dependent Surface Charge and Hydration of Semiconducting Nanoparticles at Variable pH (Adv. Mater. 52/2021). <i>Advanced Materials</i> , 2021 , 33, 2170414	24	
227	Artificial Diagenesis of Carbonates: Temperature-Dependent Inorganic and Organic Modifications in Reservoir Mimetic Fluids. <i>SPE Journal</i> , 2020 , 1-15	3.1	2
226	Optical measurements of oil release from calcite packed beds in microfluidic channels. <i>Microfluidics and Nanofluidics</i> , 2020 , 24, 1	2.8	2

225	Spherical probes for simultaneous measurement of rotational and translational diffusion in 3 dimensions. <i>Journal of Colloid and Interface Science</i> , 2020 , 576, 322-329	9.3	2
224	Charge Trapping-Based Electricity Generator (CTEG): An Ultrarobust and High Efficiency Nanogenerator for Energy Harvesting from Water Droplets. <i>Advanced Materials</i> , 2020 , 32, e2001699	24	42
223	Electroviscous effects on the squeezing flow of thin electrolyte solution films. <i>Journal of Fluid Mechanics</i> , 2020 , 888,	3.7	2
222	Electrochemically Induced Changes in TiO and Carbon Films Studied with QCM-D. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1775-1783	6.1	3
221	Mineral Interfaces and Oil Recovery: A Microscopic View on Surface Reconstruction, Organic Modification, and Wettability Alteration of Carbonates. <i>Energy & Fuels</i> , 2020 , 34, 5611-5622	4.1	8
220	Electrically Controlled Localized Charge Trapping at Amorphous Fluoropolymer-Electrolyte Interfaces. <i>Small</i> , 2020 , 16, e1905726	11	19
219	Algorithm-improved high-speed and non-invasive confocal Raman imaging of 2D materials. <i>National Science Review</i> , 2020 , 7, 620-628	10.8	9
218	Energy Harvesting from Drops Impacting onto Charged Surfaces. <i>Physical Review Letters</i> , 2020 , 125, 078301	30.1	41
217	Artificial Diagenesis of Carbonates: Temperature Dependent Inorganic and Organic Modifications in Reservoir Mimetic Fluids 2020 ,		1
216	Charge-Trapping-Based Electricity Generation: Charge Trapping-Based Electricity Generator (CTEG): An Ultrarobust and High Efficiency Nanogenerator for Energy Harvesting from Water Droplets (Adv. Mater. 33/2020). <i>Advanced Materials</i> , 2020 , 32, 2070249	24	3
215	Aging brine-dependent deposition of crude oil components onto mica substrates, and its consequences for wettability. <i>Fuel</i> , 2020 , 274, 117856	7.1	4
214	Characterizing the fluid-matrix affinity in an organogel from the growth dynamics of oil stains on blotting paper. <i>Soft Matter</i> , 2020 , 16, 4200-4209	3.6	2
213	Wetting of Mineral Surfaces by Fatty-Acid-Laden Oil and Brine: Carbonate Effect at Elevated Temperature. <i>Energy & Fuels</i> , 2019 , 33, 9446-9456	4.1	7
212	Large-Area High-Contrast Hydrophobic/Hydrophilic Patterned Surface for Robust Electrowetting Devices. <i>ACS Applied Nano Materials</i> , 2019 , 2, 1018-1026	5.6	6
211	Response to Comment on How to make sticky surfaces slippery: Contact angle hysteresis in electrowetting with alternating voltage [Appl. Phys. Lett. 114, 116101 (2019)]. <i>Applied Physics Letters</i> , 2019 , 114, 116102	3.4	0
210	Device for rheometry, impedance spectroscopy, and electrochemistry on fluid electrodes. <i>Review of Scientific Instruments</i> , 2019 , 90, 025112	1.7	1
209	Ion-Specific and pH-Dependent Hydration of Mica-Electrolyte Interfaces. <i>Langmuir</i> , 2019 , 35, 5737-5745	4	27
208	Slippery when wet: mobility regimes of confined drops in electrowetting. <i>Soft Matter</i> , 2019 , 15, 7063-7070	30	5

207	Combined microfluidics and confocal Raman microscopy platform for studying enhanced oil recovery mechanisms. <i>Journal of Raman Spectroscopy</i> , 2019 , 50, 996	2.3	4
206	Soft electrowetting. <i>Soft Matter</i> , 2019 , 15, 6469-6475	3.6	8
205	Design and wavefront characterization of an electrically tunable aspherical optofluidic lens. <i>Optics Express</i> , 2019 , 27, 17601-17609	3.3	7
204	X-ray Photoelectron Spectroscopy with Electrical Modulation Can Be Used to Probe Electrical Properties of Liquids and Their Interfaces at Different Stages. <i>Langmuir</i> , 2019 , 35, 16989-16999	4	5
203	Behaviour of flexible superhydrophobic striped surfaces during (electro-)wetting of a sessile drop. <i>Soft Matter</i> , 2019 , 15, 9840-9848	3.6	4
202	A method for reversible control over nano-roughness of colloidal particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 560, 50-58	5.1	10
201	Salinity-dependent contact angle alteration in oil/brine/silicate systems: The effect of temperature. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 165, 1040-1048	4.4	11
200	pH-Dependence in facet-selective photo-deposition of metals and metal oxides on semiconductor particles. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7500-7508	13	18
199	Electroviscous Dissipation in Aqueous Electrolyte Films with Overlapping Electric Double Layers. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 933-946	3.4	9
198	Numerical study of submicroparticle acoustophoresis using higher-order modes in a rectangular microchannel. <i>Journal of Sound and Vibration</i> , 2018 , 415, 169-183	3.9	2
197	Elements of Fluid Dynamics 2018 , 159-196		
196	From Electric Double Layer Theory to Lippmann's Electrocapillary Equation 2018 , 113-131		2
195	Principles of Modern Electrowetting 2018 , 133-157		2
194	Fundamentals of Applied Electrowetting 2018 , 235-264		
193	Related and Emerging Topics 2018 , 265-275		
192	Introduction to Capillarity and Wetting Phenomena 2018 , 1-59		3
191	Adsorption at Interfaces 2018 , 95-111		
190	Electrowetting Materials and Fabrication 2018 , 197-233		

189	Historical Perspective of Modern Electrowetting: Individual Testimonials 2018 , 277-291		
188	Controlling shedding characteristics of condensate drops using electrowetting. <i>Applied Physics Letters</i> , 2018 , 113, 243703	3.4	18
187	Bubble formation in catalyst pores; curse or blessing?. <i>Reaction Chemistry and Engineering</i> , 2018 , 3, 826-833	4	4
186	Cationic Hofmeister Series of Wettability Alteration in Mica-Water-Alkane Systems. <i>Langmuir</i> , 2018 , 34, 13574-13583	4	7
185	Breath Figures under Electrowetting: Electrically Controlled Evolution of Drop Condensation Patterns. <i>Physical Review Letters</i> , 2018 , 120, 214502	7.4	33
184	Contact angle hysteresis and oil film lubrication in electrowetting with two immiscible liquids. <i>Applied Physics Letters</i> , 2018 , 112, 203703	3.4	16
183	2018 ,		20
182	Mechanical History Dependence in Carbon Black Suspensions for Flow Batteries: A Rheo-Impedance Study. <i>Langmuir</i> , 2017 , 33, 1629-1638	4	45
181	Spontaneous electrification of fluoropolymer-water interfaces probed by electrowetting. <i>Faraday Discussions</i> , 2017 , 199, 29-47	3.6	34
180	E-MALDI: optimized conditions during electrowetting-enhanced drop drying for MALDI-MS. <i>Journal of Mass Spectrometry</i> , 2017 , 52, 405-410	2.2	1
179	Jumping drops on hydrophobic surfaces, controlling energy transfer by timed electric actuation. <i>Soft Matter</i> , 2017 , 13, 4856-4863	3.6	9
178	Salinity-Dependent Contact Angle Alteration in Oil/Brine/Silicate Systems: the Critical Role of Divalent Cations. <i>Langmuir</i> , 2017 , 33, 3349-3357	4	70
177	Impact of surface defects on the surface charge of gibbsite nanoparticles. <i>Nanoscale</i> , 2017 , 9, 4721-4729	7.7	20
176	Roadmap for optofluidics. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 093003	1.7	55
175	Electrovariable nanoplasmonics: general discussion. <i>Faraday Discussions</i> , 2017 , 199, 603-613	3.6	1
174	Electroactuators: from understanding to micro-robotics and energy conversion: general discussion. <i>Faraday Discussions</i> , 2017 , 199, 525-545	3.6	2
173	Influence of electrochemical cycling on the rheo-impedance of anolytes for Li-based Semi Solid Flow Batteries. <i>Electrochimica Acta</i> , 2017 , 251, 388-395	6.7	14
172	Probing the Surface Charge on the Basal Planes of Kaolinite Particles with High-Resolution Atomic Force Microscopy. <i>Langmuir</i> , 2017 , 33, 14226-14237	4	47

171	Electrotunable wetting, and micro- and nanofluidics: general discussion. <i>Faraday Discussions</i> , 2017 , 199, 195-237	3.6	2
170	Aberration control in adaptive optics: a numerical study of arbitrarily deformable liquid lenses. <i>Optics Express</i> , 2017 , 25, 6700-6711	3.3	11
169	Numerical simulation of astigmatic liquid lenses tuned by a stripe electrode. <i>Optics Express</i> , 2016 , 24, 4210-20	3.3	13
168	Electrode-assisted trapping and release of droplets on hydrophilic patches in a hydrophobic microchannel. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	9
167	Analytic model for the electrowetting properties of oil-water-solid systems. <i>Physical Review E</i> , 2016 , 93, 042606	2.4	8
166	Insights From Ion Adsorption and Contact-Angle Alteration at Mineral Surfaces for Low-Salinity Waterflooding. <i>SPE Journal</i> , 2016 , 21, 1204-1213	3.1	27
165	Numerical analysis of electrically tunable aspherical optofluidic lenses. <i>Optics Express</i> , 2016 , 24, 14672-81	3.3	9
164	Ion effects in the adsorption of carboxylate on oxide surfaces, studied with quartz crystal microbalance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 494, 30-38	5.1	20
163	Atomic structure and surface defects at mineral-water interfaces probed by in situ atomic force microscopy. <i>Nanoscale</i> , 2016 , 8, 8220-7	7.7	22
162	Characterization of the surface charge distribution on kaolinite particles using high resolution atomic force microscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 175, 100-112	5.5	55
161	Apparent wall-slip of colloidal hard-sphere suspensions in microchannel flow. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 491, 50-56	5.1	9
160	Dynamics of colloids confined in microcylinders. <i>Soft Matter</i> , 2016 , 12, 1621-30	3.6	4
159	Charge inversion and colloidal stability of carbon black in battery electrolyte solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 489, 461-468	5.1	28
158	Recent Developments in Optofluidic Lens Technology. <i>Micromachines</i> , 2016 , 7,	3.3	43
157	Design of a hybrid advective-diffusive microfluidic system with ellipsometric detection for studying adsorption. <i>Biomicrofluidics</i> , 2016 , 10, 034113	3.2	1
156	e-MALDI: An Electrowetting-Enhanced Drop Drying Method for MALDI Mass Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 4669-75	7.8	38
155	Facile synthesis, characterization and catalytic activity of nanoporous supports loaded with monometallic and bimetallic nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 491, 57-61	5.1	1
154	Surfactant induced autophobing. <i>Soft Matter</i> , 2016 , 12, 4562-71	3.6	22

153	Effects of shear and walls on the diffusion of colloids in microchannels. <i>Physical Review E</i> , 2015 , 91, 052305	3.5	12
152	Numerical investigation of dynamic effects for sliding drops on wetting defects. <i>Physical Review E</i> , 2015 , 91, 023013	2.4	8
151	On the shape of a droplet in a wedge: new insight from electrowetting. <i>Soft Matter</i> , 2015 , 11, 7717-21	3.6	27
150	Air cushioning in droplet impact. II. Experimental characterization of the air film evolution. <i>Physics of Fluids</i> , 2015 , 27, 012105	4.4	50
149	A numerical technique to simulate display pixels based on electrowetting. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 465-482	2.8	30
148	Measuring advection and diffusion of colloids in shear flow. <i>Langmuir</i> , 2015 , 31, 5689-700	4	12
147	Imaging local acoustic pressure in microchannels. <i>Applied Optics</i> , 2015 , 54, 6482-90	0.2	10
146	High-throughput sorting of drops in microfluidic chips using electric capacitance. <i>Biomicrofluidics</i> , 2015 , 9, 044116	3.2	10
145	Extracting local surface charges and charge regulation behavior from atomic force microscopy measurements at heterogeneous solid-electrolyte interfaces. <i>Nanoscale</i> , 2015 , 7, 16298-311	7.7	52
144	Wettability-independent bouncing on flat surfaces mediated by thin air films. <i>Nature Physics</i> , 2015 , 11, 48-53	16.2	154
143	Bouncing on thin air: how squeeze forces in the air film during non-wetting droplet bouncing lead to momentum transfer and dissipation. <i>Journal of Fluid Mechanics</i> , 2015 , 776, 531-567	3.7	22
142	Amplitude modulation atomic force microscopy, is acoustic driving in liquid quantitatively reliable?. <i>Nanotechnology</i> , 2015 , 26, 385703	3.4	10
141	Stability Limits of Capillary Bridges: How Contact Angle Hysteresis Affects Morphology Transitions of Liquid Microstructures. <i>Physical Review Letters</i> , 2015 , 114, 234501	7.4	16
140	Droplet Manipulations in Two Phase Flow Microfluidics. <i>Micromachines</i> , 2015 , 6, 1768-1793	3.3	50
139	Interfacial Assembly of Surfactant-Decorated Nanoparticles: On the Rheological Description of a Colloidal 2D Glass. <i>Langmuir</i> , 2015 , 31, 6289-97	4	50
138	In-chip direct laser writing of a centimeter-scale acoustic micromixer. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2015 , 14, 1	0.7	14
137	Superamphiphobic Surfaces 2015 , 57-69		4
136	Ion adsorption-induced wetting transition in oil-water-mineral systems. <i>Scientific Reports</i> , 2015 , 5, 105194.9	4.9	98

135	Air cushioning in droplet impact. I. Dynamics of thin films studied by dual wavelength reflection interference microscopy. <i>Physics of Fluids</i> , 2015 , 27, 012104	4.4	38
134	Detection of ion adsorption at solid-liquid interfaces using internal reflection ellipsometry. <i>Sensors and Actuators B: Chemical</i> , 2015 , 210, 649-655	8.5	19
133	Hard and soft colloids at fluid interfaces: Adsorption, interactions, assembly & rheology. <i>Advances in Colloid and Interface Science</i> , 2015 , 222, 215-27	14.3	132
132	Optofluidic lens with tunable focal length and asphericity. <i>Scientific Reports</i> , 2014 , 4, 6378	4.9	69
131	Direct observation of ionic structure at solid-liquid interfaces: a deep look into the Stern Layer. <i>Scientific Reports</i> , 2014 , 4, 4956	4.9	122
130	Trapping of drops by wetting defects. <i>Nature Communications</i> , 2014 , 5, 3559	17.4	72
129	Electrostatic potential wells for on-demand drop manipulation in microchannels. <i>Lab on A Chip</i> , 2014 , 14, 883-91	7.2	35
128	Equation of state and adsorption dynamics of soft microgel particles at an air-water interface. <i>Soft Matter</i> , 2014 , 10, 7045-50	3.6	49
127	Encased cantilevers for low-noise force and mass sensing in liquids 2014 ,		7
126	Sorption-Determined Deposition of Platinum on Well-Defined Platelike WO ₃ . <i>Angewandte Chemie</i> , 2014 , 126, 12684-12687	3.6	6
125	Sorption-determined deposition of platinum on well-defined platelike WO ₃ . <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12476-9	16.4	17
124	Sample preconcentration inside sessile droplets using electrowetting. <i>Biomicrofluidics</i> , 2013 , 7, 44102	3.2	15
123	Stability and interactions in mixed monolayers of fatty acid derivatives on Artificial Sea Water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 433, 200-211	5.1	22
122	Salt dependent stability of stearic acid Langmuir-Blodgett films exposed to aqueous electrolytes. <i>Langmuir</i> , 2013 , 29, 5150-9	4	31
121	Atomic force microscopy of confined liquids using the thermal bending fluctuations of the cantilever. <i>Physical Review E</i> , 2013 , 87, 062406	2.4	16
120	Electrically tunable wetting defects characterized by a simple capillary force sensor. <i>Langmuir</i> , 2013 , 29, 9944-9	4	30
119	Electrowetting-driven oscillating drops sandwiched between two substrates. <i>Physical Review E</i> , 2013 , 88, 053015	2.4	24
118	Stick-Slip to Sliding Transition of Dynamic Contact Lines under AC Electrowetting. <i>Langmuir</i> , 2013 , 29, 15116-21	4	10

117	Shaken not stirred On internal flow patterns in oscillating sessile drops. <i>Europhysics Letters</i> , 2012 , 98, 34003	1.6	29
116	Can Confinement-Induced Variations in the Viscous Dissipation be Measured?. <i>Tribology Letters</i> , 2012 , 48, 1-9	2.8	12
115	Use of electrowetting to measure dynamic interfacial tensions of a microdrop. <i>Lab on A Chip</i> , 2012 , 12, 2832-6	7.2	8
114	Buoyant droplets on functional fibers. <i>Langmuir</i> , 2012 , 28, 13300-6	4	26
113	Control of evaporating complex fluids through electrowetting. <i>Soft Matter</i> , 2012 , 8, 10614	3.6	44
112	Stability of stearic acid monolayers on Artificial Sea Water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 407, 38-48	5.1	40
111	Dynamics of collapse of air films in drop impact. <i>Physical Review Letters</i> , 2012 , 108, 074505	7.4	99
110	Wetting: Unobtrusive graphene coatings. <i>Nature Materials</i> , 2012 , 11, 182-3	27	18
109	High speed adaptive liquid microlens array. <i>Optics Express</i> , 2012 , 20, 18180-7	3.3	56
108	Non-monotonic variation of viscous dissipation in confined liquid films: A reconciliation. <i>Europhysics Letters</i> , 2012 , 97, 46001	1.6	16
107	Say goodbye to coffee stains. <i>Physics World</i> , 2012 , 25, 33-37	0.5	9
106	Colloidal dynamics near a particle-covered surface. <i>Langmuir</i> , 2011 , 27, 12297-303	4	16
105	Electrically assisted drop sliding on inclined planes. <i>Applied Physics Letters</i> , 2011 , 98, 014102	3.4	42
104	Controlling flow patterns in oscillating sessile drops by breaking azimuthal symmetry. <i>Applied Physics Letters</i> , 2011 , 99, 154102	3.4	25
103	Capillary Stokes drift: a new driving mechanism for mixing in AC-electrowetting. <i>Lab on A Chip</i> , 2011 , 11, 2011-6	7.2	67
102	Suppressing the coffee stain effect: how to control colloidal self-assembly in evaporating drops using electrowetting. <i>Soft Matter</i> , 2011 , 7, 4954	3.6	215
101	Electrowetting driven optical switch and tunable aperture. <i>Optics Express</i> , 2011 , 19, 15525-31	3.3	99
100	Drops on functional fibers: from barrels to clamshells and back. <i>Soft Matter</i> , 2011 , 7, 5138	3.6	73

99	Confinement-dependent damping in a layered liquid. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 112206	11
98	Interfacial tension measurements with microfluidic tapered channels. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 389, 38-42	5.1 21
97	Influence of cationic composition and pH on the formation of metal stearates at oil-water interfaces. <i>Langmuir</i> , 2011 , 27, 8738-47	4 22
96	Electric-field-driven instabilities on superhydrophobic surfaces. <i>Europhysics Letters</i> , 2011 , 93, 56001	1.6 30
95	Electrical switching of wetting states on superhydrophobic surfaces: a route towards reversible Cassie-to-Wenzel transitions. <i>Physical Review Letters</i> , 2011 , 106, 014501	7.4 116
94	A microfluidic platform for on-demand formation and merging of microdroplets using electric control. <i>Biomicrofluidics</i> , 2011 , 5, 11101	3.2 41
93	Electrostatic interaction forces in aqueous salt solutions of variable concentration and valency. <i>Nanotechnology</i> , 2011 , 22, 305706	3.4 60
92	Droplets formation and merging in two-phase flow microfluidics. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 2572-97	6.3 205
91	Small Amplitude Atomic Force Spectroscopy. <i>Nanoscience and Technology</i> , 2011 , 39-58	0.6 1
90	Fundamentals of Electrowetting and Applications in Microsystems 2011 , 85-125	6
89	Electrothermally driven flows in ac electrowetting. <i>Physical Review E</i> , 2010 , 81, 015303	2.4 54
88	Instability of confined water films between elastic surfaces. <i>Langmuir</i> , 2010 , 26, 3280-5	4 7
87	Anisotropic and hindered diffusion of colloidal particles in a closed cylinder. <i>Langmuir</i> , 2010 , 26, 16722-94	53
86	Aging in dense suspensions of soft thermosensitive microgel particles studied with particle-tracking microrheology. <i>Physical Review E</i> , 2010 , 81, 011404	2.4 24
85	Dissipation and oscillatory solvation forces in confined liquids studied by small-amplitude atomic force spectroscopy. <i>Nanotechnology</i> , 2010 , 21, 325703	3.4 48
84	On the shape of surface nanobubbles. <i>Langmuir</i> , 2010 , 26, 260-8	4 126
83	Microscopic shape and contact angle measurement at a superhydrophobic surface. <i>Faraday Discussions</i> , 2010 , 146, 49-56; discussion 79-101, 395-401	3.6 40
82	A hybrid microfluidic chip with electrowetting functionality using ultraviolet (UV)-curable polymer. <i>Lab on A Chip</i> , 2010 , 10, 1550-6	7.2 27

81	Do epitaxy and temperature affect oscillatory solvation forces?. <i>Langmuir</i> , 2010 , 26, 13245-50	4	13
80	Electrowetting: a versatile tool for drop manipulation, generation, and characterization. <i>Advances in Colloid and Interface Science</i> , 2010 , 161, 115-23	14.3	62
79	Capillarity-driven dynamics of water- α -alcohol mixtures in nanofluidic channels. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 123-129	2.8	44
78	A simple method to determine the surface charge in microfluidic channels. <i>Electrophoresis</i> , 2010 , 31, 563-9	3.6	11
77	Influence of confinement by smooth and rough walls on particle dynamics in dense hard-sphere suspensions. <i>Physical Review E</i> , 2009 , 80, 061403	2.4	48
76	Mapping of spatiotemporal heterogeneous particle dynamics in living cells. <i>Physical Review E</i> , 2009 , 79, 051910	2.4	29
75	Micromachined Fabry-Pérot Interferometer with Embedded Nanochannels for Nanoscale Fluid Dynamics. <i>Nano Letters</i> , 2009 , 9, 3087-3088	11.5	56
74	Fundamental challenges in electrowetting: from equilibrium shapes to contact angle saturation and drop dynamics. <i>Soft Matter</i> , 2009 , 5, 3377	3.6	173
73	Hydrodynamic resistance of single confined moving drops in rectangular microchannels. <i>Lab on A Chip</i> , 2009 , 9, 982-90	7.2	109
72	Microfluidic valves with integrated structured elastomeric membranes for reversible fluidic entrapment and in situ channel functionalization. <i>Lab on A Chip</i> , 2009 , 9, 1461-7	7.2	6
71	Microfluidics as a functional tool for cell mechanics. <i>Biomicrofluidics</i> , 2009 , 3, 12006	3.2	79
70	Electrowetting of complex fluids: perspectives for rheometry on chip. <i>Langmuir</i> , 2009 , 25, 1245-52	4	16
69	On the origins of the universal dynamics of endogenous granules in mammalian cells. <i>MCB Molecular and Cellular Biomechanics</i> , 2009 , 6, 191-201	1.2	1
68	Electrowetting-based microdrop tensiometer. <i>Langmuir</i> , 2008 , 24, 10549-51	4	62
67	Phase selection in capillary breakup in AC electric fields. <i>Langmuir</i> , 2008 , 24, 11847-50	4	8
66	Electrowetting-enhanced microfluidic device for drop generation. <i>Applied Physics Letters</i> , 2008 , 93, 183507	3.7	39
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