

Hans-Juergen Butt

List of Publications by Year in descending order

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552
papers

37,201
citations

3731

89
h-index

4548

171
g-index

582
all docs

582
docs citations

582
times ranked

30608
citing authors

#	ARTICLE	IF	CITATIONS
1	Force measurements with the atomic force microscope: Technique, interpretation and applications. <i>Surface Science Reports</i> , 2005, 59, 1-152.	7.2	3,040
2	Candle Soot as a Template for a Transparent Robust Superamphiphobic Coating. <i>Science</i> , 2012, 335, 67-70.	12.6	1,783
3	Calculation of thermal noise in atomic force microscopy. <i>Nanotechnology</i> , 1995, 6, 1-7.	2.6	1,417
4	Boundary slip in Newtonian liquids: a review of experimental studies. <i>Reports on Progress in Physics</i> , 2005, 68, 2859-2897.	20.1	946
5	Measuring electrostatic, van der Waals, and hydration forces in electrolyte solutions with an atomic force microscope. <i>Biophysical Journal</i> , 1991, 60, 1438-1444.	0.5	723
6	Micromechanical cantilever-based biosensors. <i>Sensors and Actuators B: Chemical</i> , 2001, 79, 115-126.	7.8	664
7	Normal capillary forces. <i>Advances in Colloid and Interface Science</i> , 2009, 146, 48-60.	14.7	492
8	Photoswitching of glass transition temperatures of azobenzene-containing polymers induces reversible solid-to-liquid transitions. <i>Nature Chemistry</i> , 2017, 9, 145-151.	13.6	469
9	Measuring adhesion, attraction, and repulsion between surfaces in liquids with an atomic-force microscope. <i>Physical Review B</i> , 1992, 45, 11226-11232.	3.2	441
10	Transparent, Thermally Stable and Mechanically Robust Superhydrophobic Surfaces Made from Porous Silica Capsules. <i>Advanced Materials</i> , 2011, 23, 2962-2965.	21.0	441
11	Surface charge printing for programmed droplet transport. <i>Nature Materials</i> , 2019, 18, 936-941.	27.5	401
12	How superhydrophobicity breaks down. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3254-3258.	7.1	397
13	Adhesion and Friction Forces between Spherical Micrometer-Sized Particles. <i>Physical Review Letters</i> , 1999, 83, 3328-3331.	7.8	365
14	Near-Infrared-Sensitive Materials Based on Upconverting Nanoparticles. <i>Advanced Materials</i> , 2016, 28, 1208-1226.	21.0	347
15	Direct observation of drops on slippery lubricant-infused surfaces. <i>Soft Matter</i> , 2015, 11, 7617-7626.	2.7	323
16	Hydrodynamic Force Measurements: Boundary Slip of Water on Hydrophilic Surfaces and Electrokinetic Effects. <i>Physical Review Letters</i> , 2002, 88, 076103.	7.8	277
17	Surface Roughness and Hydrodynamic Boundary Slip of a Newtonian Fluid in a Completely Wetting System. <i>Physical Review Letters</i> , 2003, 90, 144501.	7.8	274
18	Measuring the Thickness of the Liquid-like Layer on Ice Surfaces with Atomic Force Microscopy. <i>Langmuir</i> , 2000, 16, 6709-6714.	3.5	260

#	ARTICLE	IF	CITATIONS
19	Imaging cells with the atomic force microscope. <i>Journal of Structural Biology</i> , 1990, 105, 54-61.	2.8	259
20	Aspartic acids 96 and 85 play a central role in the function of bacteriorhodopsin as a proton pump.. <i>EMBO Journal</i> , 1989, 8, 1657-1663.	7.8	252
21	When and how self-cleaning of superhydrophobic surfaces works. <i>Science Advances</i> , 2020, 6, eaaw9727.	10.3	242
22	How drops start sliding over solid surfaces. <i>Nature Physics</i> , 2018, 14, 191-196.	16.7	240
23	Measuring surface forces in aqueous electrolyte solution with the atomic force microscope. <i>Bioelectrochemistry</i> , 1995, 38, 191-201.	1.0	235
24	Direct Measurement of Particle~Bubble Interactions in Aqueous Electrolyte:~ Dependence on Surfactant. <i>Langmuir</i> , 1998, 14, 3164-3174.	3.5	234
25	A Technique for Measuring the Force between a Colloidal Particle in Water and a Bubble. <i>Journal of Colloid and Interface Science</i> , 1994, 166, 109-117.	9.4	233
26	Atomic force microscopy. <i>Progress in Surface Science</i> , 1992, 41, 3-49.	8.3	220
27	Steric Forces Measured with the Atomic Force Microscope at Various Temperatures. <i>Langmuir</i> , 1999, 15, 2559-2565.	3.5	220
28	Imaging the membrane protein bacteriorhodopsin with the atomic force microscope. <i>Biophysical Journal</i> , 1990, 58, 1473-1480.	0.5	219
29	A Sensitive Method to Measure Changes in the Surface Stress of Solids. <i>Journal of Colloid and Interface Science</i> , 1996, 180, 251-260.	9.4	219
30	An Amphiphilic Ruthenium Polymetallodrug for Combined Photodynamic Therapy and Photochemotherapy In Vivo. <i>Advanced Materials</i> , 2017, 29, 1603702.	21.0	218
31	How Water Advances on Superhydrophobic Surfaces. <i>Physical Review Letters</i> , 2016, 116, 096101.	7.8	216
32	Comparative Analysis of Viscosity of Complex Liquids and Cytoplasm of Mammalian Cells at the Nanoscale. <i>Nano Letters</i> , 2011, 11, 2157-2163.	9.1	212
33	Electrostatic interaction in atomic force microscopy. <i>Biophysical Journal</i> , 1991, 60, 777-785.	0.5	210
34	Dye-sensitized solar cells based on poly (3,4-ethylenedioxythiophene) counter electrode derived from ionic liquids. <i>Journal of Materials Chemistry</i> , 2010, 20, 1654.	6.7	208
35	The Colloidal Probe Technique and its Application to Adhesion Force Measurements. <i>Particle and Particle Systems Characterization</i> , 2002, 19, 129.	2.3	206
36	Scan speed limit in atomic force microscopy. <i>Journal of Microscopy</i> , 1993, 169, 75-84.	1.8	203

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37	Design principles for superamphiphobic surfaces. <i>Soft Matter</i> , 2013, 9, 418-428.	2.7	196
38	Recent experimental advances for understanding bubble-particle attachment in flotation. <i>Advances in Colloid and Interface Science</i> , 2017, 246, 105-132.	14.7	196
39	Three-dimensional ferroelectric domain visualization by ÅEerenkov-type second harmonic generation. <i>Optics Express</i> , 2010, 18, 16539.	3.4	192
40	A defective proton pump, point-mutated bacteriorhodopsin Asp96→Asn is fully reactivated by azide.. <i>EMBO Journal</i> , 1989, 8, 3477-3482.	7.8	181
41	Surfactant Aggregates at a Metal Surface. <i>Langmuir</i> , 1997, 13, 1381-1384.	3.5	179
42	From Heterogeneous to Homogeneous Nucleation of Isotactic Poly(propylene) Confined to Nanoporous Alumina. <i>Nano Letters</i> , 2011, 11, 1671-1675.	9.1	179
43	Supramolecular hydrogels constructed by red-light-responsive host-guest interactions for photo-controlled protein release in deep tissue. <i>Soft Matter</i> , 2015, 11, 7656-7662.	2.7	169
44	Effect of Capillary Pressure and Surface Tension on the Deformation of Elastic Surfaces by Sessile Liquid Microdrops: An Experimental Investigation. <i>Langmuir</i> , 2008, 24, 10565-10568.	3.5	168
45	Ultralow-intensity near-infrared light induces drug delivery by upconverting nanoparticles. <i>Chemical Communications</i> , 2015, 51, 431-434.	4.1	168
46	Light-Driven Delivery and Release of Materials Using Liquid Marbles. <i>Advanced Functional Materials</i> , 2016, 26, 3199-3206.	14.9	168
47	Stable Hydrophobic Metal-Oxide Photocatalysts via Grafting Polydimethylsiloxane Brush. <i>Advanced Materials</i> , 2017, 29, 1604637.	21.0	164
48	Yttrium-substituted nanocrystalline TiO ₂ photoanodes for perovskite based heterojunction solar cells. <i>Nanoscale</i> , 2014, 6, 1508-1514.	5.6	162
49	On the Adhesion between Fine Particles and Nanocontacts: Å An Atomic Force Microscope Study. <i>Langmuir</i> , 2006, 22, 2171-2184.	3.5	156
50	Insights into the Adhesive Mechanisms of Tree Frogs using Artificial Mimics. <i>Advanced Functional Materials</i> , 2013, 23, 1137-1146.	14.9	156
51	Ferroelastic Fingerprints in Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5724-5731.	3.1	154
52	Characterization of super liquid-repellent surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2014, 19, 343-354.	7.4	151
53	Measuring local surface charge densities in electrolyte solutions with a scanning force microscope. <i>Biophysical Journal</i> , 1992, 63, 578-582.	0.5	145
54	Fluorescence correlation spectroscopy in colloid and interface science. <i>Current Opinion in Colloid and Interface Science</i> , 2012, 17, 377-387.	7.4	142

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55	Measuring the Contact Angle of Individual Colloidal Particles. <i>Journal of Colloid and Interface Science</i> , 1998, 208, 468-477.	9.4	141
56	Deposition of Organic Material by the Tip of a Scanning Force Microscope. <i>Langmuir</i> , 1995, 11, 1061-1064.	3.5	140
57	End-Group-Dominated Molecular Order in Self-Assembled Monolayers. <i>The Journal of Physical Chemistry</i> , 1995, 99, 7102-7107.	2.9	140
58	Templated Crystallisation of Calcium and Strontium Carbonates on Centred Rectangular Self-Assembled Monolayer Substrates. <i>Chemistry - A European Journal</i> , 1998, 4, 1834-1842.	3.3	137
59	Elastic Superhydrophobic and Photocatalytic Active Films Used as Blood Repellent Dressing. <i>Advanced Materials</i> , 2020, 32, e1908008.	21.0	129
60	Evaporation of sessile water/ethanol drops in a controlled environment. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 7150.	2.8	128
61	Measuring Electrochemically Induced Surface Stress with an Atomic Force Microscope. <i>The Journal of Physical Chemistry</i> , 1995, 99, 15728-15732.	2.9	126
62	Efficient Platinum-Free Counter Electrodes for Dye-Sensitized Solar Cell Applications. <i>ChemPhysChem</i> , 2010, 11, 2814-2819.	2.1	124
63	Dynamic Measurement of the Force Required to Move a Liquid Drop on a Solid Surface. <i>Langmuir</i> , 2012, 28, 16812-16820.	3.5	119
64	Torrent Frog-Inspired Adhesives: Attachment to Flooded Surfaces. <i>Advanced Functional Materials</i> , 2015, 25, 1499-1505.	14.9	119
65	Photon Upconversion Lithography: Patterning of Biomaterials Using Near-Infrared Light. <i>Advanced Materials</i> , 2015, 27, 2203-2206.	21.0	119
66	Interaction Forces between Hydrophobic Surfaces. Attractive Jump as an Indication of Formation of Stable Submicrocavities. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3407-3410.	2.6	118
67	Flexible Minerals: Self-Assembled Calcite Spicules with Extreme Bending Strength. <i>Science</i> , 2013, 339, 1298-1302.	12.6	118
68	Ultrafast Processing of Hierarchical Nanotexture for a Transparent Superamphiphobic Coating with Extremely Low Roll-Off Angle and High Impalement Pressure. <i>Advanced Materials</i> , 2018, 30, e1706529.	21.0	117
69	Height calibration of optical lever atomic force microscopes by simple laser interferometry. <i>Review of Scientific Instruments</i> , 1995, 66, 1258-1259.	1.3	115
70	Capillary Forces: Influence of Roughness and Heterogeneity. <i>Langmuir</i> , 2008, 24, 4715-4721.	3.5	115
71	The Softer the Better: Fast Condensation on Soft Surfaces. <i>Langmuir</i> , 2010, 26, 1544-1547.	3.5	108
72	The application of atomic force microscopy in mineral flotation. <i>Advances in Colloid and Interface Science</i> , 2018, 256, 373-392.	14.7	108

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73	Multiple nucleation events and local dynamics of poly(μ -caprolactone) (PCL) confined to nanoporous alumina. <i>Soft Matter</i> , 2013, 9, 9189.	2.7	107
74	Homogeneous crystallization and local dynamics of poly(ethylene oxide) (PEO) confined to nanoporous alumina. <i>Soft Matter</i> , 2013, 9, 2621.	2.7	107
75	Light-Switchable Polymer Adhesive Based on Photoinduced Reversible Solid-to-Liquid Transitions. <i>ACS Macro Letters</i> , 2019, 8, 968-972.	4.8	107
76	Rupture of molecular thin films observed in atomic force microscopy. I. Theory. <i>Physical Review E</i> , 2002, 66, 031601.	2.1	106
77	Hierarchical Structures for Superhydrophobic and Superoleophobic Surfaces. <i>Langmuir</i> , 2019, 35, 10689-10703.	3.5	105
78	Rupture of molecular thin films observed in atomic force microscopy. II. Experiment. <i>Physical Review E</i> , 2002, 66, 031602.	2.1	103
79	Liquid Drops Impacting Superamphiphobic Coatings. <i>Langmuir</i> , 2013, 29, 7847-7856.	3.5	103
80	Humidity-Induced Grain Boundaries in MAPbI ₃ Perovskite Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6363-6368.	3.1	103
81	Structure of Alkyl and Perfluoroalkyl Disulfide and Azobenzenethiol Monolayers on Gold(111) Revealed by Atomic Force Microscopy. <i>The Journal of Physical Chemistry</i> , 1996, 100, 2290-2301.	2.9	99
82	Visible Mie Scattering in Nonabsorbing Hollow Sphere Powders. <i>Nano Letters</i> , 2011, 11, 1389-1394.	9.1	99
83	Super liquid-repellent gas membranes for carbon dioxide capture and heart-lung machines. <i>Nature Communications</i> , 2013, 4, 2512.	12.8	98
84	Tip penetration through lipid bilayers in atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 23, 191-200.	5.0	97
85	Direct measurement of forces between particles and bubbles. <i>International Journal of Mineral Processing</i> , 1999, 56, 99-115.	2.6	94
86	Suppression of Phase Transitions in a Confined Rodlike Liquid Crystal. <i>ACS Nano</i> , 2011, 5, 9208-9215.	14.6	92
87	Evaporation dynamics of sessile liquid drops in still air with constant contact radius. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 3696-3699.	4.8	91
88	Superhydrophobic surfaces by hybrid raspberry-like particles. <i>Faraday Discussions</i> , 2010, 146, 35.	3.2	91
89	Synthesis of Mesoporous Supraparticles on Superamphiphobic Surfaces. <i>Advanced Materials</i> , 2015, 27, 7338-7343.	21.0	91
90	Quantitative scanning tunneling microscopy and scanning force microscopy of organic materials. <i>Ultramicroscopy</i> , 1992, 46, 375-393.	1.9	90

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91	Characterization of Quantum Dot/Conducting Polymer Hybrid Films and Their Application to Light-Emitting Diodes. <i>Advanced Materials</i> , 2009, 21, 5022-5026.	21.0	90
92	Interfacial Energy and Glass Temperature of Polymers Confined to Nanoporous Alumina. <i>Macromolecules</i> , 2016, 49, 7400-7414.	4.8	90
93	Fighting against Drug-Resistant Tumors using a Dual-Responsive Pt(IV)/Ru(II) Bimetallic Polymer. <i>Advanced Materials</i> , 2020, 32, e2004766.	21.0	89
94	Dynamic effects on force measurements. I. Viscous drag on the atomic force microscope cantilever. <i>Review of Scientific Instruments</i> , 2001, 72, 2330-2339.	1.3	88
95	Confined Diffusion in Periodic Porous Nanostructures. <i>ACS Nano</i> , 2011, 5, 4607-4616.	14.6	88
96	Ruthenium-Containing Block Copolymer Assemblies: A Red-Light-Responsive Metallopolymers with Tunable Nanostructures for Enhanced Cellular Uptake and Anticancer Phototherapy. <i>Advanced Healthcare Materials</i> , 2016, 5, 467-473.	7.6	87
97	Using the Atomic Force Microscope to Study the Interaction between Two Solid Supported Lipid Bilayers and the Influence of Synapsin I. <i>Biophysical Journal</i> , 2004, 87, 2446-2455.	0.5	86
98	Local Flow Field and Slip Length of Superhydrophobic Surfaces. <i>Physical Review Letters</i> , 2016, 116, 134501.	7.8	86
99	Attraction between hydrophobic surfaces studied by atomic force microscopy. <i>International Journal of Mineral Processing</i> , 2003, 72, 215-225.	2.6	85
100	Influence of Binding-Site Density in Wet Bioadhesion. <i>Advanced Materials</i> , 2008, 20, 3872-3876.	21.0	85
101	Self-Assembled Monolayers of Symmetrical and Mixed Alkyl Fluoroalkyl Disulfides on Gold. 2. Investigation of Thermal Stability and Phase Separation. <i>Langmuir</i> , 1996, 12, 3898-3904.	3.5	84
102	Tilt of Atomic Force Microscope Cantilevers: A Effect on Spring Constant and Adhesion Measurements. <i>Langmuir</i> , 2004, 20, 2760-2764.	3.5	84
103	Self-Assembled Monolayers of Discotic Liquid Crystalline Thioethers, Discoid Disulfides, and Thiols on Gold: A Molecular Engineering of Ordered Surfaces. <i>Journal of the American Chemical Society</i> , 1996, 118, 13051-13057.	13.7	83
104	Pressure-sensitive adhesive powder. <i>Materials Horizons</i> , 2016, 3, 47-52.	12.2	83
105	Red-Light-Controlled Release of Drug-Ru Complex Conjugates from Metallopolymer Micelles for Phototherapy in Hypoxic Tumor Environments. <i>Advanced Functional Materials</i> , 2018, 28, 1804227.	14.9	82
106	Entangled Azobenzene-Containing Polymers with Photoinduced Reversible Solid-to-Liquid Transitions for Healable and Reprocessable Photoactuators. <i>Advanced Functional Materials</i> , 2020, 30, 1906752.	14.9	82
107	Fabrication of Anticounterfeiting Nanocomposites with Multiple Security Features via Integration of a Photoresponsive Polymer and Upconverting Nanoparticles. <i>Advanced Functional Materials</i> , 2021, 31, 2103908.	14.9	82
108	Effect of Local and Global Structural Order on the Performance of Perylene Diimide Excimeric Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11844-11857.	8.0	81

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109	Supramolecular Thiophene Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4845-4848.	13.8	81
110	Segregation in Drying Binary Colloidal Droplets. <i>ACS Nano</i> , 2019, 13, 4972-4979.	14.6	81
111	Contact angle hysteresis. <i>Current Opinion in Colloid and Interface Science</i> , 2022, 59, 101574.	7.4	81
112	Force Measurements on Myelin Basic Protein Adsorbed to Mica and Lipid Bilayer Surfaces Done with the Atomic Force Microscope. <i>Biophysical Journal</i> , 1999, 76, 1072-1079.	0.5	80
113	Self-Assembly, Molecular Dynamics, and Kinetics of Structure Formation in Dipole-Functionalized Discotic Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2008, 130, 5311-5319.	13.7	80
114	One-Dimensional Hypersonic Phononic Crystals. <i>Nano Letters</i> , 2010, 10, 980-984.	9.1	80
115	Interaction between Air Bubbles and Superhydrophobic Surfaces in Aqueous Solutions. <i>Langmuir</i> , 2015, 31, 7317-7327.	3.5	80
116	Direct measurements of particle–bubble interactions. <i>Advances in Colloid and Interface Science</i> , 2005, 114-115, 165-172.	14.7	79
117	On the Derivation of Young's Equation for Sessile Drops: A Nonequilibrium Effects Due to Evaporation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5277-5283.	2.6	79
118	Plasmon Hybridization in Stacked Double Crescents Arrays Fabricated by Colloidal Lithography. <i>Nano Letters</i> , 2011, 11, 446-454.	9.1	79
119	Fabrication of microvessels and microlenses from polymers by solvent droplets. <i>Applied Physics Letters</i> , 2005, 86, 124101.	3.3	77
120	Organization of Charge-Carrier Pathways for Organic Electronics. <i>Advanced Materials</i> , 2006, 18, 2255-2259.	21.0	77
121	Electrical Modes in Scanning Probe Microscopy. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1167-1178.	3.9	77
122	Submicrometer-Sized Roughness Suppresses Bacteria Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21192-21200.	8.0	77
123	One-Step Synthesis of a Durable and Liquid-Repellent Poly(dimethylsiloxane) Coating. <i>Advanced Materials</i> , 2021, 33, e2100237.	21.0	77
124	Adsorption of Membrane-Associated Proteins to Lipid Bilayers Studied with an Atomic Force Microscope: A Myelin Basic Protein and Cytochrome c. <i>Journal of Physical Chemistry B</i> , 2000, 104, 4552-4559.	2.6	76
125	Impact of atomic force microscopy on interface and colloid science. <i>Advances in Colloid and Interface Science</i> , 2007, 133, 91-104.	14.7	76
126	Grafting Silicone at Room Temperature: A Transparent, Scratch-resistant Nonstick Molecular Coating. <i>Langmuir</i> , 2020, 36, 4416-4431.	3.5	76

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127	Imaging metal atoms in air and water using the atomic force microscope. <i>Applied Physics Letters</i> , 1990, 56, 1758-1759.	3.3	75
128	Wetting on the Microscale: Shape of a Liquid Drop on a Microstructured Surface at Different Length Scales. <i>Langmuir</i> , 2012, 28, 8392-8398.	3.5	74
129	Upconverting Nanoparticle-Assisted Photochemistry Induced by Low-Intensity Near-Infrared Light: How Low Can We Go?. <i>Chemistry - A European Journal</i> , 2015, 21, 9165-9170.	3.3	74
130	A Photocatalytically Active Lubricant-Impregnated Surface. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4965-4969.	13.8	72
131	Surface Properties of Ice Studied by Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7813-7819.	2.6	71
132	Two-Dimensional Structure of Disulfides and Thiols on Gold(111). <i>Langmuir</i> , 1998, 14, 808-815.	3.5	71
133	Mercaptophenol-Protected Gold Colloids as Nuclei for the Crystallization of Inorganic Minerals: Templated Crystallization on Curved Surfaces. <i>Chemistry of Materials</i> , 1999, 11, 1317-1325.	6.7	71
134	Changes in surface stress at the liquid/solid interface measured with a microcantilever. <i>Electrochimica Acta</i> , 2000, 46, 157-163.	5.2	71
135	Ultrafine cohesive powders: From interparticle contacts to continuum behaviour. <i>Chemical Engineering Science</i> , 2007, 62, 2843-2864.	3.8	71
136	Particle Formation in the Emulsion-Solvent Evaporation Process. <i>Small</i> , 2013, 9, 3514-3522.	10.0	71
137	Microdrops on Atomic Force Microscope Cantilevers: Evaporation of Water and Spring Constant Calibration. <i>Journal of Physical Chemistry B</i> , 2005, 109, 253-263.	2.6	70
138	Crystallization of Vaterite Nanowires by the Cooperative Interaction of Tailor-Made Nucleation Surfaces and Polyelectrolytes. <i>Advanced Functional Materials</i> , 2005, 15, 683-688.	14.9	69
139	Transfer of Materials from Water to Solid Surfaces Using Liquid Marbles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33351-33359.	8.0	69
140	Forces between polystyrene surfaces in water-electrolyte solutions: Long-range attraction of two types?. <i>Journal of Chemical Physics</i> , 2001, 114, 8124-8131.	3.0	68
141	Enhancing CO ₂ Capture using Robust Superomniphobic Membranes. <i>Advanced Materials</i> , 2017, 29, 1603524.	21.0	68
142	Capillary forces between soft, elastic spheres. <i>Soft Matter</i> , 2010, 6, 5930.	2.7	67
143	Measuring normal and friction forces acting on individual fine particles. <i>Review of Scientific Instruments</i> , 2001, 72, 4164-4170.	1.3	66
144	Confined Liquids: Solvation Forces in Liquid Alcohols between Solid Surfaces. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1703-1708.	2.6	66

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145	Measuring Single Small Molecule Binding via Rupture Forces of a Split Aptamer. <i>Journal of the American Chemical Society</i> , 2011, 133, 2025-2027.	13.7	66
146	Adaptive Wetting—Adaptation in Wetting. <i>Langmuir</i> , 2018, 34, 11292-11304.	3.5	66
147	Slide electrification: charging of surfaces by moving water drops. <i>Soft Matter</i> , 2019, 15, 8667-8679.	2.7	66
148	How to Coat the Inside of Narrow and Long Tubes with a Superliquid-Repellent Layer—A Promising Candidate for Antibacterial Catheters. <i>Advanced Materials</i> , 2019, 31, e1801324.	21.0	65
149	Polyhedral Liquid Marbles. <i>Advanced Functional Materials</i> , 2019, 29, 1808826.	14.9	64
150	Shaping the Assembly of Superparamagnetic Nanoparticles. <i>ACS Nano</i> , 2019, 13, 3015-3022.	14.6	64
151	Engineering the Hypersonic Phononic Band Gap of Hybrid Bragg Stacks. <i>Nano Letters</i> , 2012, 12, 3101-3108.	9.1	63
152	Supramolecular Organogel Based on Crown Ether and Secondary Ammonium Ion Functionalized Glycidyl Triazole Polymers. <i>Macromolecules</i> , 2013, 46, 4617-4625.	4.8	63
153	Suppression of Poly(ethylene oxide) Crystallization in Diblock Copolymers of Poly(ethylene Terephthalate) and Poly(ethylene glycol). <i>Macromolecules</i> , 2013, 46, 1793-1800.	4.8	63
154	Reversible Janus particle assembly via responsive host-guest interactions. <i>Chemical Communications</i> , 2015, 51, 2725-2727.	4.1	62
155	Optimizing Hydrophobicity and Photocatalytic Activity of PDMS-Coated Titanium Dioxide. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27422-27425.	8.0	62
156	Spontaneous charging affects the motion of sliding drops. <i>Nature Physics</i> , 2022, 18, 713-719.	16.7	62
157	Using capillary forces to determine the geometry of nanocontacts. <i>Journal of Applied Physics</i> , 2006, 100, 024312.	2.5	61
158	Porous supraparticle assembly through self-lubricating evaporating colloidal ouzo drops. <i>Nature Communications</i> , 2019, 10, 478.	12.8	61
159	Construction of Redispersible Polypyrrole Core-Shell Nanoparticles for Application in Polymer Electronics. <i>Advanced Materials</i> , 2009, 21, 1137-1141.	21.0	60
160	Homogeneous Nucleation of Predominantly Cubic Ice Confined in Nanoporous Alumina. <i>Nano Letters</i> , 2015, 15, 1987-1992.	9.1	60
161	The atomic force microscope: A tool for science and industry. <i>Ultramicroscopy</i> , 1990, 33, 93-98.	1.9	59
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