

Hans-Juergen Butt

List of Publications by Citations

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550 papers	30,343 citations	82 h-index	156 g-index
582 ext. papers	33,678 ext. citations	7.1 avg, IF	7.51 L-index

#	Paper	IF	Citations
550	Force measurements with the atomic force microscope: Technique, interpretation and applications. <i>Surface Science Reports</i> , 2005 , 59, 1-152	12.9	2599
549	Candle soot as a template for a transparent robust superamphiphobic coating. <i>Science</i> , 2012 , 335, 67-70	33.3	1507
548	Calculation of thermal noise in atomic force microscopy. <i>Nanotechnology</i> , 1995 , 6, 1-7	3.4	1235
547	Boundary slip in Newtonian liquids: a review of experimental studies. <i>Reports on Progress in Physics</i> , 2005 , 68, 2859-2897	14.4	797
546	Measuring electrostatic, van der Waals, and hydration forces in electrolyte solutions with an atomic force microscope. <i>Biophysical Journal</i> , 1991 , 60, 1438-44	2.9	645
545	Micromechanical cantilever-based biosensors. <i>Sensors and Actuators B: Chemical</i> , 2001 , 79, 115-126	8.5	560
544	Normal capillary forces. <i>Advances in Colloid and Interface Science</i> , 2009 , 146, 48-60	14.3	413
543	Transparent, thermally stable and mechanically robust superhydrophobic surfaces made from porous silica capsules. <i>Advanced Materials</i> , 2011 , 23, 2962-5	24	410
542	Measuring adhesion, attraction, and repulsion between surfaces in liquids with an atomic-force microscope. <i>Physical Review B</i> , 1992 , 45, 11226-11232	3.3	382
541	Adhesion and Friction Forces between Spherical Micrometer-Sized Particles. <i>Physical Review Letters</i> , 1999 , 83, 3328-3331	7.4	325
540	Photoswitching of glass transition temperatures of azobenzene-containing polymers induces reversible solid-to-liquid transitions. <i>Nature Chemistry</i> , 2017 , 9, 145-151	17.6	323
539	How superhydrophobicity breaks down. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3254-8	11.5	322
538	Near-Infrared-Sensitive Materials Based on Upconverting Nanoparticles. <i>Advanced Materials</i> , 2016 , 28, 1208-26	24	286
537	Direct observation of drops on slippery lubricant-infused surfaces. <i>Soft Matter</i> , 2015 , 11, 7617-26	3.6	246
536	Surface roughness and hydrodynamic boundary slip of a newtonian fluid in a completely wetting system. <i>Physical Review Letters</i> , 2003 , 90, 144501	7.4	244
535	Hydrodynamic force measurements: boundary slip of water on hydrophilic surfaces and electrokinetic effects. <i>Physical Review Letters</i> , 2002 , 88, 076103	7.4	237
534	Imaging cells with the atomic force microscope. <i>Journal of Structural Biology</i> , 1990 , 105, 54-61	3.4	231

533	Measuring the Thickness of the Liquid-like Layer on Ice Surfaces with Atomic Force Microscopy. <i>Langmuir</i> , 2000 , 16, 6709-6714	4	228
532	Direct Measurement of Particle-Bubble Interactions in Aqueous Electrolyte: Dependence on Surfactant. <i>Langmuir</i> , 1998 , 14, 3164-3174	4	219
531	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	9.3	211
530	Surface charge printing for programmed droplet transport. <i>Nature Materials</i> , 2019 , 18, 936-941	27	208
529	Measuring surface forces in aqueous electrolyte solution with the atomic force microscope. <i>Bioelectrochemistry</i> , 1995 , 38, 191-201		205
528	Imaging the membrane protein bacteriorhodopsin with the atomic force microscope. <i>Biophysical Journal</i> , 1990 , 58, 1473-80	2.9	203
527	Steric Forces Measured with the Atomic Force Microscope at Various Temperatures. <i>Langmuir</i> , 1999 , 15, 2559-2565	4	200
526	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		197
525	A Sensitive Method to Measure Changes in the Surface Stress of Solids. <i>Journal of Colloid and Interface Science</i> , 1996 , 180, 251-260	9.3	195
524	2010 ,		187
523	Electrostatic interaction in atomic force microscopy. <i>Biophysical Journal</i> , 1991 , 60, 777-85	2.9	187
522	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	13	185
521	Scan speed limit in atomic force microscopy. <i>Journal of Microscopy</i> , 1993 , 169, 75-84	1.9	179
520	Atomic force microscopy. <i>Progress in Surface Science</i> , 1992 , 41, 3-49	6.6	179
519	The Colloidal Probe Technique and its Application to Adhesion Force Measurements. <i>Particle and Particle Systems Characterization</i> , 2002 , 19, 129	3.1	177
518	Design principles for superamphiphobic surfaces. <i>Soft Matter</i> , 2013 , 9, 418-428	3.6	176
517	Comparative analysis of viscosity of complex liquids and cytoplasm of mammalian cells at the nanoscale. <i>Nano Letters</i> , 2011 , 11, 2157-63	11.5	171
516	How Water Advances on Superhydrophobic Surfaces. <i>Physical Review Letters</i> , 2016 , 116, 096101	7.4	168

515	Surfactant Aggregates at a Metal Surface. <i>Langmuir</i> , 1997 , 13, 1381-1384	4	166
514	From heterogeneous to homogeneous nucleation of isotactic poly(propylene) confined to nanoporous alumina. <i>Nano Letters</i> , 2011 , 11, 1671-5	11.5	165
513	An Amphiphilic Ruthenium Polymetallo drug for Combined Photodynamic Therapy and Photochemotherapy In Vivo. <i>Advanced Materials</i> , 2017 , 29, 1603702	24	161
512	Yttrium-substituted nanocrystalline TiO ₂ photoanodes for perovskite based heterojunction solar cells. <i>Nanoscale</i> , 2014 , 6, 1508-14	7.7	151
511	Ultralow-intensity near-infrared light induces drug delivery by upconverting nanoparticles. <i>Chemical Communications</i> , 2015 , 51, 431-4	5.8	146
510	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, 10565-8	4	145
509	How drops start sliding over solid surfaces. <i>Nature Physics</i> , 2018 , 14, 191-196	16.2	145
508	Three-dimensional ferroelectric domain visualization by Cerenkov-type second harmonic generation. <i>Optics Express</i> , 2010 , 18, 16539-45	3.3	144
507	On the adhesion between fine particles and nanocontacts: an atomic force microscope study. <i>Langmuir</i> , 2006 , 22, 2171-84	4	140
506	Light-Driven Delivery and Release of Materials Using Liquid Marbles. <i>Advanced Functional Materials</i> , 2016 , 26, 3199-3206	15.6	138
505	Recent experimental advances for understanding bubble-particle attachment in flotation. <i>Advances in Colloid and Interface Science</i> , 2017 , 246, 105-132	14.3	136
504	Supramolecular hydrogels constructed by red-light-responsive host-guest interactions for photo-controlled protein release in deep tissue. <i>Soft Matter</i> , 2015 , 11, 7656-62	3.6	136
503	Measuring local surface charge densities in electrolyte solutions with a scanning force microscope. <i>Biophysical Journal</i> , 1992 , 63, 578-82	2.9	135
502	A defective proton pump, point-mutated bacteriorhodopsin Asp96----Asn is fully reactivated by azide.. <i>EMBO Journal</i> , 1989 , 8, 3477-3482	13	134
501	End-Group-Dominated Molecular Order in Self-Assembled Monolayers. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 7102-7107		130
500	Measuring the Contact Angle of Individual Colloidal Particles. <i>Journal of Colloid and Interface Science</i> , 1998 , 208, 468-477	9.3	128
499	Deposition of Organic Material by the Tip of a Scanning Force Microscope. <i>Langmuir</i> , 1995 , 11, 1061-1064		127
498	Templated Crystallisation of Calcium and Strontium Carbonates on Centred Rectangular Self-Assembled Monolayer Substrates. <i>Chemistry - A European Journal</i> , 1998 , 4, 1834-1842	4.8	122

497	Fluorescence correlation spectroscopy in colloid and interface science. <i>Current Opinion in Colloid and Interface Science</i> , 2012 , 17, 377-387	7.6	119
496	Ferroelastic Fingerprints in Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5724-5731	3.8	118
495	Efficient platinum-free counter electrodes for dye-sensitized solar cell applications. <i>ChemPhysChem</i> , 2010 , 11, 2814-9	3.2	118
494	Measuring Electrochemically Induced Surface Stress with an Atomic Force Microscope. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 15728-15732		118
493	Characterization of super liquid-repellent surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2014 , 19, 343-354	7.6	117
492	Insights into the Adhesive Mechanisms of Tree Frogs using Artificial Mimics. <i>Advanced Functional Materials</i> , 2013 , 23, 1137-1146	15.6	113
491	Stable Hydrophobic Metal-Oxide Photocatalysts via Grafting Polydimethylsiloxane Brush. <i>Advanced Materials</i> , 2017 , 29, 1604637	24	108
490	Flexible minerals: self-assembled calcite spicules with extreme bending strength. <i>Science</i> , 2013 , 339, 1298-302	33.3	108
489	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	3.4	108
488	Height calibration of optical lever atomic force microscopes by simple laser interferometry. <i>Review of Scientific Instruments</i> , 1995 , 66, 1258-1259	1.7	108
487	Photon upconversion lithography: patterning of biomaterials using near-infrared light. <i>Advanced Materials</i> , 2015 , 27, 2203-6	24	104
486	Capillary forces: influence of roughness and heterogeneity. <i>Langmuir</i> , 2008 , 24, 4715-21	4	101
485	Evaporation of sessile water/ethanol drops in a controlled environment. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 7150-7	3.6	100
484	When and how self-cleaning of superhydrophobic surfaces works. <i>Science Advances</i> , 2020 , 6, eaaw9727	14.3	98
483	Homogeneous crystallization and local dynamics of poly(ethylene oxide) (PEO) confined to nanoporous alumina. <i>Soft Matter</i> , 2013 , 9, 2621	3.6	98
482	Multiple nucleation events and local dynamics of poly(ϵ -caprolactone) (PCL) confined to nanoporous alumina. <i>Soft Matter</i> , 2013 , 9, 9189	3.6	96
481	Rupture of molecular thin films observed in atomic force microscopy. II. Experiment. <i>Physical Review E</i> , 2002 , 66, 031602	2.4	96
480	Rupture of molecular thin films observed in atomic force microscopy. I. Theory. <i>Physical Review E</i> , 2002 , 66, 031601	2.4	96

479	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		92
478	The softer the better: fast condensation on soft surfaces. <i>Langmuir</i> , 2010 , 26, 1544-7	4	91
477	Tip penetration through lipid bilayers in atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002 , 23, 191-200	6	91
476	Liquid drops impacting superamphiphobic coatings. <i>Langmuir</i> , 2013 , 29, 7847-56	4	89
475	Super liquid-repellent gas membranes for carbon dioxide capture and heart-lung machines. <i>Nature Communications</i> , 2013 , 4, 2512	17.4	88
474	Dynamic measurement of the force required to move a liquid drop on a solid surface. <i>Langmuir</i> , 2012 , 28, 16812-20	4	87
473	Superhydrophobic surfaces by hybrid raspberry-like particles. <i>Faraday Discussions</i> , 2010 , 146, 35-48; discussion 79-101, 395-401	3.6	87
472	Direct measurement of forces between particles and bubbles. <i>International Journal of Mineral Processing</i> , 1999 , 56, 99-115		87
471	Humidity-Induced Grain Boundaries in MAPbI ₃ Perovskite Films. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 6363-6368	3.8	83
470	Dynamic effects on force measurements. I. Viscous drag on the atomic force microscope cantilever. <i>Review of Scientific Instruments</i> , 2001 , 72, 2330-2339	1.7	83
469	Quantitative scanning tunneling microscopy and scanning force microscopy of organic materials. <i>Ultramicroscopy</i> , 1992 , 46, 375-393	3.1	82
468	Torrent Frog-Inspired Adhesives: Attachment to Flooded Surfaces. <i>Advanced Functional Materials</i> , 2015 , 25, 1499-1505	15.6	81
467	Visible mie scattering in nonabsorbing hollow sphere powders. <i>Nano Letters</i> , 2011 , 11, 1389-94	11.5	81
466	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, 2446-55	2.9	80
465	Characterization of quantum dot/conducting polymer hybrid films and their application to light-emitting diodes. <i>Advanced Materials</i> , 2009 , 21, 5022-5026	24	79
464	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, 1072-9	2.9	79
463	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	4	79
462	Suppression of phase transitions in a confined rodlike liquid crystal. <i>ACS Nano</i> , 2011 , 5, 9208-15	16.7	78

461	Influence of Binding-Site Density in Wet Bioadhesion. <i>Advanced Materials</i> , 2008 , 20, 3872-3876	24	78
460	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	4.9	75
459	Organization of Charge-Carrier Pathways for Organic Electronics. <i>Advanced Materials</i> , 2006 , 18, 2255-2259	24	75
458	Attraction between hydrophobic surfaces studied by atomic force microscopy. <i>International Journal of Mineral Processing</i> , 2003 , 72, 215-225		75
457	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	24	74
456	Confined diffusion in periodic porous nanostructures. <i>ACS Nano</i> , 2011 , 5, 4607-16	16.7	74
455	Interfacial Energy and Glass Temperature of Polymers Confined to Nanoporous Alumina. <i>Macromolecules</i> , 2016 , 49, 7400-7414	5.5	74
454	One-dimensional hypersonic phononic crystals. <i>Nano Letters</i> , 2010 , 10, 980-4	11.5	73
453	Adsorption of Membrane-Associated Proteins to Lipid Bilayers Studied with an Atomic Force Microscope: Myelin Basic Protein and Cytochrome c. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 4552-4559	11.5	73
452	The application of atomic force microscopy in mineral flotation. <i>Advances in Colloid and Interface Science</i> , 2018 , 256, 373-392	14.3	72
451	Plasmon hybridization in stacked double crescents arrays fabricated by colloidal lithography. <i>Nano Letters</i> , 2011 , 11, 446-54	11.5	72
450	Tilt of atomic force microscope cantilevers: effect on spring constant and adhesion measurements. <i>Langmuir</i> , 2004 , 20, 2760-4	4	72
449	Self-Assembled Monolayers of Discotic Liquid Crystalline Thioethers, Discoid Disulfides, and Thiols on Gold: Molecular Engineering of Ordered Surfaces. <i>Journal of the American Chemical Society</i> , 1996 , 118, 13051-13057	16.4	72
448	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, 5311-9	16.4	71
447	On the derivation of Young's equation for sessile drops: nonequilibrium effects due to evaporation. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 5277-83	3.4	71
446	Synthesis of Mesoporous Supraparticles on Superamphiphobic Surfaces. <i>Advanced Materials</i> , 2015 , 27, 7338-43	24	70
445	Effect of local and global structural order on the performance of perylene diimide excimeric solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11844-57	9.5	69
444	Fabrication of microvessels and microlenses from polymers by solvent droplets. <i>Applied Physics Letters</i> , 2005 , 86, 124101	3.4	69

443	Two-Dimensional Structure of Disulfides and Thiols on Gold(111). <i>Langmuir</i> , 1998 , 14, 808-815	4	69
442	Direct measurements of particle-bubble interactions. <i>Advances in Colloid and Interface Science</i> , 2005 , 114-115, 165-72	14.3	68
441	Local Flow Field and Slip Length of Superhydrophobic Surfaces. <i>Physical Review Letters</i> , 2016 , 116, 134501	14.4	67
440	Electrical modes in scanning probe microscopy. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1167-78	14.8	67
439	Impact of atomic force microscopy on interface and colloid science. <i>Advances in Colloid and Interface Science</i> , 2007 , 133, 91-104	14.3	67
438	Upconverting-nanoparticle-assisted photochemistry induced by low-intensity near-infrared light: how low can we go?. <i>Chemistry - A European Journal</i> , 2015 , 21, 9165-70	4.8	66
437	Supramolecular thiophene nanosheets. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4845-8	16.4	66
436	Light-Switchable Polymer Adhesive Based on Photoinduced Reversible Solid-to-Liquid Transitions. <i>ACS Macro Letters</i> , 2019 , 8, 968-972	6.6	65
435	Measuring single small molecule binding via rupture forces of a split aptamer. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2025-7	16.4	65
434	Microdrops on atomic force microscope cantilevers: evaporation of water and spring constant calibration. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 253-63	3.4	65
433	Crystallization of Vaterite Nanowires by the Cooperative Interaction of Tailor-Made Nucleation Surfaces and Polyelectrolytes. <i>Advanced Functional Materials</i> , 2005 , 15, 683-688	15.6	65
432	Forces between polystyrene surfaces in water/Electrolyte solutions: Long-range attraction of two types?. <i>Journal of Chemical Physics</i> , 2001 , 114, 8124-8131	3.9	65
431	Interaction between Air Bubbles and Superhydrophobic Surfaces in Aqueous Solutions. <i>Langmuir</i> , 2015 , 31, 7317-27	4	64
430	Ruthenium-Containing Block Copolymer Assemblies: Red-Light-Responsive Metallopolymers with Tunable Nanostructures for Enhanced Cellular Uptake and Anticancer Phototherapy. <i>Advanced Healthcare Materials</i> , 2016 , 5, 467-73	10.1	64
429	Ultrafine cohesive powders: From interparticle contacts to continuum behaviour. <i>Chemical Engineering Science</i> , 2007 , 62, 2843-2864	4.4	64
428	Pressure-sensitive adhesive powder. <i>Materials Horizons</i> , 2016 , 3, 47-52	14.4	63
427	Wetting on the microscale: shape of a liquid drop on a microstructured surface at different length scales. <i>Langmuir</i> , 2012 , 28, 8392-8	4	63
426	Changes in surface stress at the liquid/solid interface measured with a microcantilever. <i>Electrochimica Acta</i> , 2000 , 46, 157-163	6.7	62

425	Imaging metal atoms in air and water using the atomic force microscope. <i>Applied Physics Letters</i> , 1990 , 56, 1758-1759	3.4	61
424	Suppression of Poly(ethylene oxide) Crystallization in Diblock Copolymers of Poly(ethylene oxide)-b-poly(ε-caprolactone) Confined to Nanoporous Alumina. <i>Macromolecules</i> , 2014 , 47, 1793-1800	5.5	60
423	Particle formation in the emulsion-solvent evaporation process. <i>Small</i> , 2013 , 9, 3514-22	11	60
422	Measuring normal and friction forces acting on individual fine particles. <i>Review of Scientific Instruments</i> , 2001 , 72, 4164-4170	1.7	60
421	Surface Properties of Ice Studied by Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 7813-7819	3.4	59
420	Confined Liquids: Solvation Forces in Liquid Alcohols between Solid Surfaces. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 1703-1708	3.4	58
419	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	9.6	58
418	Reversible Janus particle assembly via responsive host-guest interactions. <i>Chemical Communications</i> , 2015 , 51, 2725-7	5.8	57
417	Elastic Superhydrophobic and Photocatalytic Active Films Used as Blood Repellent Dressing. <i>Advanced Materials</i> , 2020 , 32, e1908008	24	57
416	Red-Light-Controlled Release of DrugRu Complex Conjugates from Metallopolymer Micelles for Phototherapy in Hypoxic Tumor Environments. <i>Advanced Functional Materials</i> , 2018 , 28, 1804227	15.6	56
415	Engineering the hypersonic phononic band gap of hybrid Bragg stacks. <i>Nano Letters</i> , 2012 , 12, 3101-8	11.5	56
414	Supramolecular Organogel Based on Crown Ether and Secondary Ammonium Functionalized Glycidyl Triazole Polymers. <i>Macromolecules</i> , 2013 , 46, 4617-4625	5.5	56
413	Hierarchical Structures for Superhydrophobic and Superoleophobic Surfaces. <i>Langmuir</i> , 2019 , 35, 10689-10703	10.7	56
412	Segregation in Drying Binary Colloidal Droplets. <i>ACS Nano</i> , 2019 , 13, 4972-4979	16.7	55
411	Construction of Redispersible Polypyrrole Core-Shell Nanoparticles for Application in Polymer Electronics. <i>Advanced Materials</i> , 2009 , 21, 1137-1141	24	55
410	Using capillary forces to determine the geometry of nanocontacts. <i>Journal of Applied Physics</i> , 2006 , 100, 024312	2.5	54
409	Transition in the evaporation kinetics of water microdrops on hydrophilic surfaces. <i>Langmuir</i> , 2009 , 25, 75-8	4	53
408	A Photocatalytically Active Lubricant-Impregnated Surface. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4965-4969	16.4	52

407	Capillary forces between soft, elastic spheres. <i>Soft Matter</i> , 2010 , 6, 5930	3.6	52
406	Measuring Electrostatic Double-Layer Forces at High Surface Potentials with the Atomic Force Microscope. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16700-16705		52
405	Contact angles on hydrophobic microparticles at water/air and water/hexadecane interfaces. <i>Journal of Adhesion Science and Technology</i> , 2000 , 14, 1783-1799	2	52
404	Confined liquid: Simultaneous observation of a molecularly layered structure and hydrodynamic slip. <i>Journal of Chemical Physics</i> , 2002 , 117, 10311-10314	3.9	51
403	The atomic force microscope: A tool for science and industry. <i>Ultramicroscopy</i> , 1990 , 33, 93-98	3.1	51
402	Enhancing CO Capture using Robust Superomniphobic Membranes. <i>Advanced Materials</i> , 2017 , 29, 1603524	3.4	50
401	Transfer of Materials from Water to Solid Surfaces Using Liquid Marbles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33351-33359	9.5	50
400	Homogeneous nucleation of predominantly cubic ice confined in nanoporous alumina. <i>Nano Letters</i> , 2015 , 15, 1987-92	11.5	50
399	Microsphere tensiometry to measure advancing and receding contact angles on individual particles. <i>Journal of Adhesion Science and Technology</i> , 1999 , 13, 1181-1191	2	49
398	Complex tracer diffusion dynamics in polymer solutions. <i>Physical Review Letters</i> , 2013 , 111, 088301	7.4	48
397	Arrays of aligned supramolecular wires by macroscopic orientation of columnar discotic mesophases. <i>ACS Nano</i> , 2012 , 6, 9359-65	16.7	48
396	Probing mobility and structural inhomogeneities in grafted hydrogel films by fluorescence correlation spectroscopy. <i>Soft Matter</i> , 2011 , 7, 7042	3.6	47
395	Nanowear on polymer films of different architecture. <i>Langmuir</i> , 2007 , 23, 3150-6	4	46
394	Latex film formation studied with the atomic force microscope: Influence of aging and annealing. <i>Colloid and Polymer Science</i> , 1994 , 272, 1218-1223	2.4	46
393	Fighting against Drug-Resistant Tumors using a Dual-Responsive Pt(IV)/Ru(II) Bimetallic Polymer. <i>Advanced Materials</i> , 2020 , 32, e2004766	24	46
392	3D Imaging of Water-Drop Condensation on Hydrophobic and Hydrophilic Lubricant-Impregnated Surfaces. <i>Scientific Reports</i> , 2016 , 6, 23687	4.9	45
391	Contact angles and wetting behaviour of single micron-sized particles. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S445-S464	1.8	45
390	Effect of surface roughness of carbon support films on high-resolution electron diffraction of two-dimensional protein crystals. <i>Ultramicroscopy</i> , 1991 , 36, 307-318	3.1	45

389	Soft Janus colloidal crystal film. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9809-13	16.4	44
388	Tuning the mechanical properties of silica microcapsules. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15392-8	3.6	44
387	Thin liquid films studied by atomic force microscopy. <i>Current Opinion in Colloid and Interface Science</i> , 2008 , 13, 107-119	7.6	44
386	Imaging molecular defects in alkanethiol monolayers with an atomic force microscope. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 7316-7320		44
385	Energy Dissipation of Moving Drops on Superhydrophobic and Superoleophobic Surfaces. <i>Langmuir</i> , 2017 , 33, 107-116	4	43
384	Fluorescence correlation spectroscopy directly monitors coalescence during nanoparticle preparation. <i>Nano Letters</i> , 2012 , 12, 6012-7	11.5	43
383	Preliminary results on the electrostatic double-layer force between two surfaces with high surface potentials. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998 , 136, 191-197	5.1	43
382	Influence of Humidity on Adhesion: An Atomic Force Microscope Study. <i>Journal of Adhesion Science and Technology</i> , 2008 , 22, 181-203	2	43
381	Entangled Azobenzene-Containing Polymers with Photoinduced Reversible Solid-to-Liquid Transitions for Healable and Reprocessable Photoactuators. <i>Advanced Functional Materials</i> , 2020 , 30, 1906752	15.6	43
380	Polyhedral Liquid Marbles. <i>Advanced Functional Materials</i> , 2019 , 29, 1808826	15.6	41
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