Xuehua Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/523231/publications.pdf

Version: 2024-02-01

179
papers

8,735
citations

50276
46
h-index

48315
88
g-index

183
all docs

183
docs citations

183
times ranked

7277
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface nanobubbles and nanodroplets. Reviews of Modern Physics, 2015, 87, 981-1035.	45.6	602
2	Two-Dimensional Mesoporous Carbon Nanosheets and Their Derived Graphene Nanosheets: Synthesis and Efficient Lithium Ion Storage. Journal of the American Chemical Society, 2013, 135, 1524-1530.	13.7	591
3	Physical Properties of Nanobubbles on Hydrophobic Surfaces in Water and Aqueous Solutions. Langmuir, 2006, 22, 5025-5035.	3.5	380
4	Nanobubbles at the Interface between Water and a Hydrophobic Solid. Langmuir, 2008, 24, 4756-4764.	3.5	315
5	Controllable corrugation of chemically converted graphene sheets in water and potential application for nanofiltration. Chemical Communications, 2011, 47, 5810.	4.1	296
6	Highly Ordered Mesoporous Silica Films with Perpendicular Mesochannels by a Simple StÃ¶berâ€•Solution Growth Approach. Angewandte Chemie - International Edition, 2012, 51, 2173-2177.	13.8	291
7	A Nanoscale Gas State. Physical Review Letters, 2007, 98, 136101.	7.8	228
8	Electrochemically Controlled Formation and Growth of Hydrogen Nanobubbles. Langmuir, 2006, 22, 8109-8113.	3.5	197
9	Strain Sensors with Adjustable Sensitivity by Tailoring the Microstructure of Graphene Aerogel/PDMS Nanocomposites. ACS Applied Materials & Interfaces, 2016, 8, 24853-24861.	8.0	195
10	Stability of Interfacial Nanobubbles. Langmuir, 2013, 29, 1017-1023.	3.5	189
11	Pinning and gas oversaturation imply stable single surface nanobubbles. Physical Review E, 2015, 91, 031003.	2.1	187
12	Deformable Hollow Periodic Mesoporous Organosilica Nanocapsules for Significantly Improved Cellular Uptake. Journal of the American Chemical Society, 2018, 140, 1385-1393.	13.7	168
13	Detection of Novel Gaseous States at the Highly Oriented Pyrolytic Graphiteâˆ’Water Interface. Langmuir, 2007, 23, 1778-1783.	3.5	148
14	Evaporation-triggered microdroplet nucleation and the four life phases of an evaporating Ouzo drop. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8642-8647.	7.1	138
15	Evaporating pure, binary and ternary droplets: thermal effects and axial symmetry breaking. Journal of Fluid Mechanics, 2017, 823, 470-497.	3.4	126
16	Physicochemical hydrodynamics of droplets out of equilibrium. Nature Reviews Physics, 2020, 2, 426-443.	26.6	126
17	Formation of surface nanodroplets under controlled flow conditions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9253-9257.	7.1	113
18	Removal of Induced Nanobubbles from Water/Graphite Interfaces by Partial Degassing. Langmuir, 2006, 22, 9238-9243.	3.5	111

#	ARTICLE	IF	CITATIONS
19	Superâ€Soft Hydrogel Particles with Tunable Elasticity in a Microfluidic Blood Capillary Model. Advanced Materials, 2014, 26, 7295-7299.	21.0	107
20	Do Stable Nanobubbles Exist in Mixtures of Organic Solvents and Water?. Journal of Physical Chemistry B, 2010, 114, 6962-6967.	2.6	95
21	Vapor and Gas-Bubble Growth Dynamics around Laser-Irradiated, Water-Immersed Plasmonic Nanoparticles. ACS Nano, 2017, 11, 2045-2051.	14.6	93
22	Epoxy nanocomposites containing magnetite-carbon nanofibers aligned using a weak magnetic field. Polymer, 2015, 68, 25-34.	3.8	89
23	Ultrahigh Density of Gas Molecules Confined in Surface Nanobubbles in Ambient Water. Journal of the American Chemical Society, 2020, 142, 5583-5593.	13.7	88
24	Quartz crystal microbalance study of the interfacial nanobubbles. Physical Chemistry Chemical Physics, 2008, 10, 6842.	2.8	86
25	Interfacial Nanobubbles Are Leaky: Permeability of the Gas/Water Interface. ACS Nano, 2014, 8, 6193-6201.	14.6	83
26	Effects of Surfactants on the Formation and the Stability of Interfacial Nanobubbles. Langmuir, 2012, 28, 10471-10477.	3.5	77
27	Stability of Surface Nanobubbles: A Molecular Dynamics Study. Langmuir, 2016, 32, 11116-11122.	3.5	77
28	Giant and explosive plasmonic bubbles by delayed nucleation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7676-7681.	7.1	76
29	Nanoscale Multiple Gaseous Layers on a Hydrophobic Surface. Langmuir, 2009, 25, 8860-8864.	3.5	74
30	Formation of Interfacial Nanodroplets through Changes in Solvent Quality. Langmuir, 2007, 23, 12478-12480.	3.5	66
31	The length scales for stable gas nanobubbles at liquid/solid surfaces. Soft Matter, 2010, 6, 4515.	2.7	65
32	Mixed mode of dissolving immersed nanodroplets at a solidâ€"water interface. Soft Matter, 2015, 11, 1889-1900.	2.7	65
33	Synthesis of Discrete Alkylâ€Silica Hybrid Nanowires and Their Assembly into Nanostructured Superhydrophobic Membranes. Angewandte Chemie - International Edition, 2016, 55, 8375-8380.	13.8	65
34	Highly Ordered Arrays of Femtoliter Surface Droplets. Small, 2015, 11, 4850-4855.	10.0	64
35	Surface Nanobubbles Nucleate Microdroplets. Physical Review Letters, 2014, 112, 144503.	7.8	61
36	Porous supraparticle assembly through self-lubricating evaporating colloidal ouzo drops. Nature Communications, 2019, 10, 478.	12.8	61

#	ARTICLE	IF	CITATIONS
37	Thermodynamic Stability of Interfacial Gaseous States. Journal of Physical Chemistry B, 2008, 112, 13671-13675.	2.6	59
38	Response of interfacial nanobubbles to ultrasound irradiation. Soft Matter, 2011, 7, 265-269.	2.7	53
39	Nanobubble formation on a warmer substrate. Soft Matter, 2014, 10, 7857-7864.	2.7	53
40	From transient nanodroplets to permanent nanolenses. Soft Matter, 2012, 8, 4314.	2.7	52
41	Nanobubbles influence on BSA adsorption on mica surface. Surface and Interface Analysis, 2006, 38, 990-995.	1.8	51
42	Interfacial Oil Droplets. Langmuir, 2008, 24, 110-115.	3.5	51
43	Perspectives on surface nanobubbles. Biomicrofluidics, 2014, 8, 041301.	2.4	48
44	Stick-Jump Mode in Surface Droplet Dissolution. Langmuir, 2015, 31, 4696-4703.	3.5	48
45	Universal nanodroplet branches from confining the Ouzo effect. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10332-10337.	7.1	48
46	Review on formation of cold plasma activated water (PAW) and the applications in food and agriculture. Food Research International, 2022, 157, 111246.	6.2	48
47	Effects of Solvency and Interfacial Nanobubbles on Surface Forces and Bubble Attachment at Solid Surfaces. Langmuir, 2011, 27, 2484-2491.	3.5	47
48	Self-wrapping of an ouzo drop induced by evaporation on a superamphiphobic surface. Soft Matter, 2017, 13, 2749-2759.	2.7	47
49	Diffusive interaction of multiple surface nanobubbles: shrinkage, growth, and coarsening. Soft Matter, 2018, 14, 2006-2014.	2.7	47
50	Formation of Ice, Tetrahydrofuran Hydrate, and Methane/Propane Mixed Gas Hydrates in Strong Monovalent Salt Solutions. Energy & Fuels, 2014, 28, 6877-6888.	5.1	46
51	Transforming Growth Factorâ€“Î²â€“Induced Differentiation of Airway Smooth Muscle Cells Is Inhibited by Fibroblast Growth Factorâ€“2. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 346-353.	2.9	45
52	Formation of surface nanobubbles on nanostructured substrates. Nanoscale, 2017, 9, 1078-1086.	5.6	44
53	Interfacial nanodroplets guided construction of hierarchical Au, Au-Pt and Au-Pd particles as excellent catalysts. Scientific Reports, 2014, 4, 4849.	3.3	43
54	Confined self-assembly of cellulose nanocrystals in a shrinking droplet. Soft Matter, 2015, 11, 5374-5380.	2.7	40

#	Article	IF	Citations
55	Bouncing Oil Droplet in a Stratified Liquid and its Sudden Death. Physical Review Letters, 2019, 122, 154502.	7.8	40
56	Effect of temperature on the morphology of nanobubbles at mica/water interface. Chinese Physics B, 2005, 14, 1774-1778.	1.3	39
57	Interfacial Gaseous States on Crystalline Surfaces. Journal of Physical Chemistry C, 2011, 115, 736-743.	3.1	38
58	In situ AFM observation of BSA adsorption on HOPG with nanobubble. Science Bulletin, 2007, 52, 1913-1919.	1.7	37
59	Controlling the Growth Modes of Femtoliter Sessile Droplets Nucleating on Chemically Patterned Surfaces. Journal of Physical Chemistry Letters, 2016, 7, 1055-1059.	4.6	35
60	Influence of Solution Composition on the Formation of Surface Nanodroplets by Solvent Exchange. Langmuir, 2016, 32, 1700-1706.	3.5	35
61	Formation of Multicomponent Surface Nanodroplets by Solvent Exchange. Journal of Physical Chemistry C, 2018, 122, 8647-8654.	3.1	35
62	Formation and dissolution of microbubbles on highly-ordered plasmonic nanopillar arrays. Scientific Reports, 2016, 5, 18515.	3.3	34
63	Functional Femtoliter Droplets for Ultrafast Nanoextraction and Supersensitive Online Microanalysis. Small, 2019, 15, e1804683.	10.0	34
64	Solvent Effects on the Formation of Surface Nanodroplets by Solvent Exchange. Langmuir, 2015, 31, 12120-12125.	3.5	33
65	Surface Nanodroplets: Formation, Dissolution, and Applications. Langmuir, 2019, 35, 12583-12596.	3.5	33
66	Growth and Detachment of Oxygen Bubbles Induced by Gold-Catalyzed Decomposition of Hydrogen Peroxide. Journal of Physical Chemistry C, 2017, 121, 20769-20776.	3.1	31
67	Spontaneous Pattern Formation of Surface Nanodroplets from Competitive Growth. ACS Nano, 2015, 9, 11916-11923.	14.6	30
68	Large Scale Flow-Mediated Formation and Potential Applications of Surface Nanodroplets. ACS Applied Materials & Interfaces, 2016, 8, 22679-22687.	8.0	29
69	Plasmonic Bubble Nucleation and Growth in Water: Effect of Dissolved Air. Journal of Physical Chemistry C, 2019, 123, 23586-23593.	3.1	29
70	Accelerated Formation of H₂ Nanobubbles from a Surface Nanodroplet Reaction. ACS Nano, 2020, 14, 10944-10953.	14.6	28
71	Photocatalytic Induction of Nanobubbles on TiO₂ Surfaces. Journal of Physical Chemistry C, 2008, 112, 4029-4032.	3.1	27
72	Growth dynamics of surface nanodroplets during solvent exchange at varying flow rates. Soft Matter, 2018, 14, 5197-5204.	2.7	27

#	ARTICLE	IF	CITATIONS
73	Spatial organization of surface nanobubbles and its implications in their formation process. Soft Matter, 2014, 10, 942.	2.7	26
74	From Nanodroplets by the Ouzo Effect to Interfacial Nanolenses. Langmuir, 2014, 30, 12270-12277.	3.5	26
75	Time-Resolved In Situ Liquid-Phase Atomic Force Microscopy and Infrared Nanospectroscopy during the Formation of Metalâ€"Organic Framework Thin Films. Journal of Physical Chemistry Letters, 2018, 9, 1838-1844.	4.6	26
76	Automated Femtoliter Droplet-Based Determination of Oilâ€"Water Partition Coefficient. Analytical Chemistry, 2019, 91, 10371-10375.	6.5	26
77	Particle Size Determines the Shape of Supraparticles in Self-Lubricating Ternary Droplets. ACS Nano, 2021, 15, 4256-4267.	14.6	26
78	Collective Effects in Microbubble Growth by Solvent Exchange. Langmuir, 2016, 32, 11265-11272.	3.5	25
79	Inert Gas Deactivates Protein Activity by Aggregation. Scientific Reports, 2017, 7, 10176.	3.3	25
80	Evaporation-induced flattening and self-assembly of chemically converted graphene on a solid surface. Soft Matter, 2011, 7, 8745.	2.7	24
81	Water-Induced Blister Formation in a Thin Film Polymer. Langmuir, 2015, 31, 1017-1025.	3.5	24
82	Stiffness and evolution of interfacial micropancakes revealed by AFM quantitative nanomechanical imaging. Physical Chemistry Chemical Physics, 2015, 17, 13598-13605.	2.8	24
83	Collective interactions in the nucleation and growth of surface droplets. Soft Matter, 2017, 13, 937-944.	2.7	23
84	Surfactant-mediated formation of polymeric microlenses from interfacial microdroplets. Soft Matter, 2014, 10, 957-964.	2.7	22
85	Gravitational Effect on the Formation of Surface Nanodroplets. Langmuir, 2015, 31, 12628-12634.	3.5	22
86	Microdroplet nucleation by dissolution of a multicomponent drop in a host liquid. Journal of Fluid Mechanics, 2019, 870, 217-246.	3.4	22
87	Gasâ€"Vapor Interplay in Plasmonic Bubble Shrinkage. Journal of Physical Chemistry C, 2020, 124, 5861-5869.	3.1	22
88	Flow-induced dissolution of femtoliter surface droplet arrays. Lab on A Chip, 2018, 18, 1066-1074.	6.0	21
89	Plasmonic Bubbles in <i>n</i>-Alkanes. Journal of Physical Chemistry C, 2018, 122, 28375-28381.	3.1	21
90	Growth dynamics of microbubbles on microcavity arrays by solvent exchange: Experiments and numerical simulations. Journal of Colloid and Interface Science, 2018, 532, 103-111.	9.4	21

#	ARTICLE	IF	CITATIONS
91	Formation and Stability of Cavitation Microbubbles in Process Water from the Oilsands Industry. Industrial & Engineering Chemistry Research, 2021, 60, 3198-3209.	3.7	21
92	Self-Propelled Detachment upon Coalescence of Surface Bubbles. Physical Review Letters, 2021, 127, 235501.	7.8	21
93	Microbubble-enhanced water activation by cold plasma. Chemical Engineering Journal, 2022, 446, 137318.	12.7	20
94	Control of Femtoliter Liquid on a Microlens: A Way to Flexible Dual-Microlens Arrays. ACS Applied Materials & Interfaces, 2019, 11, 27386-27393.	8.0	18
95	Microbubble-Enhanced Recovery of Residual Bitumen from the Tailings of Oil Sands Extraction in a Laboratory-Scale Pipeline. Energy & Fuels, 2020, 34, 16476-16485.	5.1	18
96	Oilingâ€Out Crystallization of Betaâ€Alanine on Solid Surfaces Controlled by Solvent Exchange. Advanced Materials Interfaces, 2021, 8, 2001200.	3.7	18
97	Formation of Nanodents by Deposition of Nanodroplets at the Polymerâ˜'Liquid Interface. Langmuir, 2010, 26, 4776-4781.	3.5	17
98	Influence of Dissolved Atmospheric Gases on the Spontaneous Emulsification of Alkaneâ˜'Ethanolâ˜'Water Systems. Journal of Physical Chemistry C, 2011, 115, 8768-8774.	3.1	16
99	Deactivation of Microbubble Nucleation Sites by Alcoholâ€"Water Exchange. Langmuir, 2013, 29, 9979-9984.	3.5	16
100	Microwetting of Supported Graphene on Hydrophobic Surfaces Revealed by Polymerized Interfacial Femtodroplets. Langmuir, 2014, 30, 10043-10049.	3.5	16
101	Primary submicron particles from early stage asphaltene precipitation revealed in situ by total internal reflection fluorescence microscopy in a model oil system. Fuel, 2021, 296, 120584.	6.4	16
102	Assembling of graphene oxide in an isolated dissolving droplet. Soft Matter, 2012, 8, 11249.	2.7	15
103	Morphological Transformation of Surface Femtodroplets upon Dissolution. Journal of Physical Chemistry Letters, 2017, 8, 584-590.	4.6	15
104	Formation of surface nanodroplets facing a structured microchannel wall. Lab on A Chip, 2017, 17, 1496-1504.	6.0	15
105	Formation of surface nanodroplets of viscous liquids by solvent exchange. European Physical Journal E, 2017, 40, 26.	1.6	15
106	Entrapment and Dissolution of Microbubbles Inside Microwells. Langmuir, 2018, 34, 10659-10667.	3.5	15
107	Integrated Nanoextraction and Colorimetric Reactions in Surface Nanodroplets for Combinative Analysis. Analytical Chemistry, 2020, 92, 12442-12450.	6.5	14
108	Enhanced Displacement of Phase Separating Liquid Mixtures in 2D Confined Spaces. Energy & Fuels, 2021, 35, 5194-5205.	5.1	14

#	ARTICLE	IF	CITATIONS
109	Analysis of the Gas States at a Liquid/Solid Interface Based on Interactions at the Microscopic Level. Journal of Physical Chemistry B, 2007, 111, 9325-9329.	2.6	13
110	Sessile Nanodroplets on Elliptical Patches of Enhanced Lyophilicity. Langmuir, 2017, 33, 2744-2749.	3.5	13
111	Extraordinary Focusing Effect of Surface Nanolenses in Total Internal Reflection Mode. ACS Central Science, 2018, 4, 1511-1519.	11.3	13
112	Formation of Polystyrene Microlenses via Transient Droplets from the Ouzo Effect for Enhanced Optical Imaging. Journal of Physical Chemistry C, 2019, 123, 14327-14337.	3.1	13
113	Plasmonic Nanobubbles in â€œArmoredâ€•Surface Nanodroplets. Journal of Physical Chemistry C, 2019, 123, 29866-29874.	3.1	13
114	Surface Properties of Colloidal Particles Affect Colloidal Self-Assembly in Evaporating Self-Lubricating Ternary Droplets. ACS Applied Materials & Interfaces, 2022, 14, 2275-2290.	8.0	13
115	Adsorbed emulsion droplets: capping agents for in situ heterogeneous engineering of particle surfaces. Chemical Communications, 2013, 49, 11563.	4.1	12
116	Controlled addition of new liquid component into surface droplet arrays by solvent exchange. Journal of Colloid and Interface Science, 2019, 543, 164-173.	9.4	12
117	Viscosity-Mediated Growth and Coalescence of Surface Nanodroplets. Journal of Physical Chemistry C, 2020, 124, 12476-12484.	3.1	12
118	Speeding up biphasic reactions with surface nanodroplets. Lab on A Chip, 2020, 20, 2965-2974.	6.0	12
119	Nucleation Probability Distributions of Methaneâ€“Propane Mixed Gas Hydrates in Salt Solutions and Urea. Energy & Fuels, 2015, 29, 6259-6270.	5.1	11
120	Microwetting of pH-Sensitive Surface and Anisotropic MoS₂ Surfaces Revealed by Femtoliter Sessile Droplets. Langmuir, 2016, 32, 11273-11279.	3.5	11
121	Coalescence driven self-organization of growing nanodroplets around a microcap. Soft Matter, 2018, 14, 2628-2637.	2.7	11
122	Solvent Exchange in a Heleâ€“Shaw Cell: Universality of Surface Nanodroplet Nucleation. Journal of Physical Chemistry C, 2019, 123, 5571-5577.	3.1	11
123	Stitching Chemically Converted Graphene on Solid Surfaces by Solvent Evaporation. ACS Applied Materials & Interfaces, 2012, 4, 6443-6449.	8.0	10
124	Controlling the assembly of graphene oxide by an electrolyte-assisted approach. Nanoscale, 2013, 5, 6458.	5.6	10
125	Effects of the Molecular Structure of a Self-Assembled Monolayer on the Formation and Morphology of Surface Nanodroplets. Langmuir, 2016, 32, 11197-11202.	3.5	10
126	Dissolution dynamics of a suspension droplet in a binary solution for controlled nanoparticle assembly. Nanoscale, 2017, 9, 13441-13448.	5.6	10

#	ARTICLE	IF	CITATIONS
127	Zipping-Depinning: Dissolution of Droplets on Micropatterned Concentric Rings. Langmuir, 2018, 34, 5396-5402.	3.5	10
128	Formation, growth and applications of femtoliter droplets on a microlens. Physical Chemistry Chemical Physics, 2018, 20, 4226-4237.	2.8	10
129	Oneâ€•Step Nanoextraction and Ultrafast Microanalysis Based on Nanodroplet Formation in an Evaporating Ternary Liquid Microfilm. Advanced Materials Technologies, 2020, 5, 1900740.	5.8	10
130	Surface nanodroplet-based nanoextraction from sub-milliliter volumes of dense suspensions. Lab on A Chip, 2021, 21, 2574-2585.	6.0	10
131	Propelling microdroplets generated and sustained by liquidâ€“liquid phase separation in confined spaces. Soft Matter, 2021, 17, 5362-5374.	2.7	10
132	Interfacial Partitioning Enhances Microextraction by Multicomponent Nanodroplets. Journal of Physical Chemistry C, 2022, 126, 1326-1336.	3.1	10
133	Transparent Silk Fibroin Microspheres from Controlled Droplet Dissolution in a Binary Solution. Langmuir, 2017, 33, 7780-7787.	3.5	9
134	Splitting droplets through coalescence of two different three-phase contact lines. Soft Matter, 2019, 15, 6055-6061.	2.7	9
135	Microfluidic device coupled with total internal reflection microscopy for in situ observation of precipitation. European Physical Journal E, 2021, 44, 57.	1.6	9
136	Evaluation of the Radial Deformability of Poly(dG)âˆ’Poly(dC) DNA and G4-DNA Using Vibrating Scanning Polarization Force Microscopy. Langmuir, 2010, 26, 7523-7528.	3.5	8
137	Study of electrical conductivity response upon formation of ice and gas hydrates from salt solutions by a second generation high pressure electrical conductivity probe. Review of Scientific Instruments, 2014, 85, 115101.	1.3	8
138	How a Surface Nanodroplet Sits on the Rim of a Microcap. Langmuir, 2016, 32, 5744-5754.	3.5	8
139	Crystallization of Femtoliter Surface Droplet Arrays Revealed by Synchrotron Small-Angle X-ray Scattering. Langmuir, 2018, 34, 9470-9476.	3.5	8
140	In-situ fabrication of metal oxide nanocaps based on biphasic reactions with surface nanodroplets. Journal of Colloid and Interface Science, 2022, 608, 2235-2245.	9.4	8
141	Surface Microlenses for Much More Efficient Photodegradation in Water Treatment. ACS ES&T Water, 2022, 2, 644-657.	4.6	8
142	Molecular Expansion of an Individual Coiled DNA on a Graphite Surface. Langmuir, 2011, 27, 2405-2410.	3.5	7
143	Formation, characterization and stability of oil nanodroplets on immersed substrates. Advances in Colloid and Interface Science, 2015, 224, 17-32.	14.7	7
144	Synchrotron Radiation-Based FTIR Microspectroscopic Imaging of Traumatically Injured Mouse Brain Tissue Slices. ACS Omega, 2020, 5, 29698-29705.	3.5	7

#	ARTICLE	IF	CITATIONS
145	Encapsulated Nanodroplets for Enhanced Fluorescence Detection by Nanoâ€Extraction. Small, 2020, 16, 2004162.	10.0	7
146	Marangoni instability triggered by selective evaporation of a binary liquid inside a Hele-Shaw cell. Journal of Fluid Mechanics, 2021, 923, .	3.4	7
147	Tuning Composition of Multicomponent Surface Nanodroplets in a Continuous Flowâ€In System. Advanced Materials Interfaces, 2021, 8, 2101126.	3.7	7
148	CFD Simulation of Turbulent non-Newtonian Slurry Flows in Horizontal Pipelines. Industrial & Engineering Chemistry Research, 2022, 61, 5324-5339.	3.7	7
149	Three-dimensional patterns from the thin-film drying of amino acid solutions. Scientific Reports, 2015, 5, 10926.	3.3	6
150	Stability of micro-Cassie states on rough substrates. Journal of Chemical Physics, 2015, 142, 244704.	3.0	6
151	Dissolution of Sessile Microdroplets of Electrolyte and Graphene Oxide Solutions in an Ouzo System. Langmuir, 2016, 32, 10296-10304.	3.5	6
152	Simple Nanodroplet Templating of Functional Surfaces with Tailored Wettability and Microstructures. Chemistry - an Asian Journal, 2017, 12, 1538-1544.	3.3	6
153	Growth of nanodroplets on a still microfiber under flow conditions. Physical Chemistry Chemical Physics, 2018, 20, 18252-18261.	2.8	6
154	Effects of Chemical and Geometric Microstructures on the Crystallization of Surface Droplets during Solvent Exchange. Langmuir, 2021, 37, 5290-5298.	3.5	6
155	Size Effect on the Reaction Rate of Surface Nanodroplets. Journal of Physical Chemistry C, 2021, 125, 15324-15334.	3.1	6
156	Ultrasensitive Picomolar Detection of Aqueous Acids in Microscale Fluorescent Droplets. ACS Sensors, 2022, 7, 245-252.	7.8	6
157	Size distribution of primary submicron particles and larger aggregates in solvent-induced asphaltene precipitation in a model oil system. Fuel, 2022, 322, 124057.	6.4	6
158	3D spherical-cap fitting procedure for (truncated) sessile nano- and micro-droplets & -bubbles. European Physical Journal E, 2016, 39, 106.	1.6	5
159	Enhancement of Focused Liquid Jets by Surface Bubbles. Langmuir, 2018, 34, 4234-4240.	3.5	5
160	Synergy between Dual Polymers and Sand-to-Fines Ratio for Enhanced Flocculation of Oil Sand Mature Fine Tailings. Energy & Fuels, 2021, 35, 8884-8894.	5.1	5
161	Sequential droplet reactions for surface-bound gold nanocrater array. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 649, 129325.	4.7	5
162	Effects of stimulated aggrecanolysis on nanoscale morphological and mechanical properties of wild-type and aggrecanase-resistant mutant mice cartilages. European Physical Journal E, 2017, 40, 72.	1.6	4

#	ARTICLE	IF	CITATIONS
163	Sequential Evaporationâ€“Induced Formation of Polymeric Surface Microdents via Ouzo Effect. Advanced Materials Interfaces, 2019, 6, 1900002.	3.7	4
164	Morphology of Evaporating Sessile Microdroplets on Lyophilic Elliptical Patches. Langmuir, 2019, 35, 2099-2105.	3.5	4
165	Marangoni puffs: dramatically enhanced dissolution of droplets with an entrapped bubble. Soft Matter, 2020, 16, 4520-4527.	2.7	4
166	Critical Shear Stress of Clathrate and Semiclathrate Hydrates on Solid Substrates. Energy & Fuels, 2022, 36, 3619-3627.	5.1	4
167	Growth Rates of Hydrogen Microbubbles in Reacting Femtoliter Droplets. Langmuir, 2022, 38, 6638-6646.	3.5	4
168	Formation of Regular Stripes of Chemically Converted Graphene on Hydrophilic Substrates. ACS Applied Materials & Interfaces, 2013, 5, 6176-6181.	8.0	3
169	Optical Characterisation of Non-Covalent Interactions between Non-Conjugated Polymers and Chemically Converted Graphene. Australian Journal of Chemistry, 2014, 67, 168.	0.9	3
170	Tailoring graphene oxide assemblies by pinning on the contact line of a dissolving microdroplet. Soft Matter, 2015, 11, 8479-8483.	2.7	3
171	Efficient photoinduced charge transfer in chemically-linked organic-metal Ag-P3HT nanocomposites. Optical Materials Express, 2016, 6, 3063.	3.0	3
172	How Fast do Microdroplets Generated During Liquidâ€“Liquid Phase Separation Move in a Confined 2D Space?. Energy & Fuels, 2021, 35, 11257-11270.	5.1	3
173	Phase Separation of an Evaporating Ternary Solution in a Hele-Shaw Cell. Langmuir, 2021, 37, 10450-10460.	3.5	3
174	Water-mediated adhesion of oil sands on solid surfaces at low temperature. Fuel, 2022, 320, 123778.	6.4	3
175	Dynamic configuration of reduced graphene oxide in aqueous dispersion and its effect on thin film properties. Chemical Communications, 2015, 51, 17760-17763.	4.1	2
176	General mechanism and mitigation for strong adhesion of frozen oil sands on solid substrates. Fuel, 2022, 325, 124797.	6.4	2
177	Hydrogel Particles: Super-Soft Hydrogel Particles with Tunable Elasticity in a Microfluidic Blood Capillary Model (Adv. Mater. 43/2014). Advanced Materials, 2014, 26, 7416-7416.	21.0	1
178	Synthesis of Anisotropic, Amphiphilic Grafted Multi-Star Polymers and Investigation of their Self-Assembling Characteristics. Australian Journal of Chemistry, 2014, 67, 49.	0.9	1
179	Ouzo Column under Impact: Formation of Emulsion Jet and Oil-Lubricated Droplet. Langmuir, 2021, 37, 2056-2064.	3.5	1