Lijuan Zhang

List of Publications by Year
in descending order

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72	3,613	186265	133252
papers	citations	28 h-index	59 g-index

72	72	72	4583
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ion sieving in graphene oxide membranes via cationic control of interlayer spacing. Nature, 2017, 550, 380-383.	27.8	1,171
2	Electrochemically Controlled Formation and Growth of Hydrogen Nanobubbles. Langmuir, 2006, 22, 8109-8113.	3.5	197
3	Hollow Silica Spheres: Synthesis and Mechanical Properties. Langmuir, 2009, 25, 2711-2717.	3.5	172
4	Tuning Anionic Redox Activity and Reversibility for a Highâ€Capacity Liâ€Rich Mnâ€Based Oxide Cathode via an Integrated Strategy. Advanced Functional Materials, 2019, 29, 1806706.	14.9	121
5	The effect of oxygen vacancy and spinel phase integration on both anionic and cationic redox in Li-rich cathode materials. Journal of Materials Chemistry A, 2020, 8, 7733-7745.	10.3	101
6	Mechanical mapping of nanobubbles by PeakForce atomic force microscopy. Soft Matter, 2013, 9, 8837.	2.7	95
7	Formation and Stability of Bulk Nanobubbles Generated by Ethanolâ€“Water Exchange. ChemPhysChem, 2017, 18, 1345-1350.	2.1	89
8	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
9	Where Does the Transformation of Precipitated Ceria Nanoparticles in Hydroponic Plants Take Place?. Environmental Science & Technology, 2015, 49, 10667-10674.	10.0	82
10	Nanoscale Multiple Gaseous Layers on a Hydrophobic Surface. Langmuir, 2009, 25, 8860-8864.	3.5	74
11	Structural Incorporation of Manganese into Goethite and Its Enhancement of Pb(II) Adsorption. Environmental Science & Technology, 2018, 52, 4719-4727.	10.0	74
12	Generation and stability of bulk nanobubbles: A review and perspective. Current Opinion in Colloid and Interface Science, 2021, 53, 101439.	7.4	69
13	The length scales for stable gas nanobubbles at liquid/solid surfaces. Soft Matter, 2010, 6, 4515.	2.7	65
14	Imaging interfacial micro- and nano-bubbles by scanning transmission soft X-ray microscopy. Journal of Synchrotron Radiation, 2013, 20, 413-418.	2.4	65
15	Long lifetime of nanobubbles due to high inner density. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 219-224.	0.2	61
16	Formation and Stability of Bulk Nanobubbles in Different Solutions. Langmuir, 2019, 35, 5250-5256.	3.5	58
17	The Role of Nanobubbles in the Precipitation and Recovery of Organic-Phosphine-Containing Beneficiation Wastewater. Langmuir, 2018, 34, 6217-6224.	3.5	54
18	Pyrolysis Temperature-Dependent Changes in the Characteristics of Biochar-Borne Dissolved Organic Matter and Its Copper Binding Properties. Bulletin of Environmental Contamination and Toxicology, 2019, 103, 169-174.	2.7	53

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19	CH₄ Nanobubbles on the Hydrophobic Solidâ€“Water Interface Serving as the Nucleation Sites of Methane Hydrate. Langmuir, 2018, 34, 10181-10186.	3.5	48
20	Formation and Stability of Bulk Nanobubbles by Vibration. Langmuir, 2020, 36, 2264-2270.	3.5	47
21	Formation of surface nanobubbles on nanostructured substrates. Nanoscale, 2017, 9, 1078-1086.	5.6	44
22	Formation and Stability of Surface/Bulk Nanobubbles Produced by Decompression at Lower Gas Concentration. Journal of Physical Chemistry C, 2018, 122, 22418-22423.	3.1	42
23	Unexpectedly Enhanced Solubility of Aromatic Amino Acids and Peptides in an Aqueous Solution of Divalent Transition-Metal Cations. Physical Review Letters, 2016, 117, 238102.	7.8	41
24	Effect of Sodium Oleate on the Adsorption Morphology and Mechanism of Nanobubbles on the Mica Surface. Langmuir, 2019, 35, 9239-9245.	3.5	40
25	3D Heterogeneous Co₃O₄@Co₃S₄ Nanoarrays Grown on Ni Foam as a Binderâ€Free Electrode for Lithiumâ€ion Batteries. ChemElectroChem, 2018, 5, 309-315.	3.4	35
26	Oxygenation and synchronous control of nitrogen and phosphorus release at the sediment-water interface using oxygen nano-bubble modified material. Science of the Total Environment, 2020, 725, 138258.	8.0	33
27	Enhanced Fluorescence in Tetraylnitrilomethylidyneâ€“Hexaphenyl Derivative-Functionalized Periodic Mesoporous Organosilicas for Sensitive Detection of Copper(II). Journal of Physical Chemistry C, 2016, 120, 9299-9307.	3.1	30
28	In situ measurement of contact angles and surface tensions of interfacial nanobubbles in ethanol aqueous solutions. Soft Matter, 2016, 12, 3303-3309.	2.7	30
29	Selective synthesis of clinoatacamite Cu2(OH)3Cl and tenorite CuO nanoparticles by pH control. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	28
30	Photocatalytic Induction of Nanobubbles on TiO₂ Surfaces. Journal of Physical Chemistry C, 2008, 112, 4029-4032.	3.1	27
31	Interfacial Nanobubbles on Atomically Flat Substrates with Different Hydrophobicities. ChemPhysChem, 2015, 16, 1003-1007.	2.1	26
32	Interfacial gas nanobubbles or oil nanodroplets?. Physical Chemistry Chemical Physics, 2017, 19, 1108-1114.	2.8	26
33	Force Spectroscopy Revealed a High-Gas-Density State near the Graphite Substrate inside Surface Nanobubbles. Langmuir, 2019, 35, 2498-2505.	3.5	26
34	Inert Gas Deactivates Protein Activity by Aggregation. Scientific Reports, 2017, 7, 10176.	3.3	25
35	Stiffness and evolution of interfacial micropancakes revealed by AFM quantitative nanomechanical imaging. Physical Chemistry Chemical Physics, 2015, 17, 13598-13605.	2.8	24
36	Three-dimensional ultrastructural imaging reveals the nanoscale architecture of mammalian cells. IUCrJ, 2018, 5, 141-149.	2.2	24

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37	Single-Particle Analysis for Structure and Iron Chemistry of Atmospheric Particulate Matter. Analytical Chemistry, 2020, 92, 975-982.	6.5	24
38	Influence of Mixing and Nanosolids on the Formation of Nanobubbles. Journal of Physical Chemistry B, 2019, 123, 317-323.	2.6	23
39	Antimicrobial <scp>d</scp>-Peptide Hydrogels. ACS Biomaterials Science and Engineering, 2021, 7, 1703-1712.	5.2	22
40	The Morphology and Stability of Nanoscopic Gas States at Water/Solid Interfaces. ChemPhysChem, 2012, 13, 2188-2195.	2.1	20
41	3D Imaging and Quantification of the Integrin at a Single-Cell Base on a Multisignal Nanoprobe and Synchrotron Radiation Soft X-ray Tomography Microscopy. Analytical Chemistry, 2021, 93, 1237-1241.	6.5	20
42	The role of EDTA on rutile flotation using Al³⁺ ions as an activator. RSC Advances, 2018, 8, 4872-4880.	3.6	18
43	The Origin of the â€œSnapâ€•in the Force Curve between AFM Probe and the Water/Gas Interface of Nanobubbles. ChemPhysChem, 2014, 15, 492-499.	2.1	17
44	Metal-enhanced fluorescence-based multilayer coreâ€“shell Ag-nanocube@SiO₂@PMOs nanocomposite sensor for Cu²⁺ detection. RSC Advances, 2016, 6, 61109-61118.	3.6	16
45	Collective Dynamics of Bulk Nanobubbles with Size-Dependent Surface Tension. Langmuir, 2021, 37, 7986-7994.	3.5	16
46	Novel 2D CaCl crystals with metallicity, room-temperature ferromagnetism, heterojunction, piezoelectricity-like property and monovalent calcium ions. National Science Review, 2021, 8, nwaa274.	9.5	16
47	Rhodamine B-based ordered mesoporous organosilicas for the selective detection and adsorption of Al(<scp>iii</scp>). New Journal of Chemistry, 2016, 40, 6752-6761.	2.8	11
48	Influence of Krypton Gas Nanobubbles on the Activity of Pepsin. Langmuir, 2020, 36, 14070-14075.	3.5	11
49	Size-Dependent Stiffness of Nanodroplets: A Quantitative Analysis of the Interaction between an AFM Probe and Nanodroplets. Langmuir, 2016, 32, 11230-11235.	3.5	10
50	Gram-selective antibacterial peptide hydrogels. Biomaterials Science, 2022, 10, 3831-3844.	5.4	10
51	Solid-solution partitioning and thionation of diphenylarsinic acid in a flooded soil under the impact of sulfate and iron reduction. Science of the Total Environment, 2016, 569-570, 1579-1586.	8.0	8
52	Changes in structural characteristics and metal speciation for biochar exposure in typic udic ferrisols. Environmental Science and Pollution Research, 2018, 25, 153-162.	5.3	8
53	Distribution and Speciation of Cu in the Root Border Cells of Rice by STXM Combined with NEXAFS. Bulletin of Environmental Contamination and Toxicology, 2016, 96, 408-414.	2.7	7
54	Lithiumâ€•ion Batteries: Tuning Anionic Redox Activity and Reversibility for a Highâ€Capacity Liâ€Rich Mnâ€Based Oxide Cathode via an Integrated Strategy (Adv. Funct. Mater. 10/2019). Advanced Functional Materials, 2019, 29, 1970064.	14.9	7

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55	Wetting Behavior of Surface Nanodroplets Regulated by Periodic Nanostructured Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 55726-55734.	8.0	7
56	Interfacial Micropancakes: Gas or Contaminations?. Langmuir, 2022, 38, 7914-7920.	3.5	7
57	INVESTIGATION ON THE MORPHOLOGY OF PRECIPITATED CHEMICALS FROM TE BUFFER ON SOLID SUBSTRATES. Surface Review and Letters, 2007, 14, 1121-1128.	1.1	6
58	Influence of water-dispersible colloids from organic manure on the mechanism of metal transport in historically contaminated soils: coupling colloid fractionation with high-energy synchrotron analysis. Journal of Soils and Sediments, 2016, 16, 349-359.	3.0	6
59	Generating Bulk Nanobubbles in Alcohol Systems. ACS Omega, 2021, 6, 2873-2881.	3.5	5
60	Macrochirality of Self-Assembled and Co-assembled Supramolecular Structures of a Pair of Enantiomeric Peptides. Frontiers in Molecular Biosciences, 2021, 8, 700964.	3.5	5
61	The effects of nanobubbles on the assembly of glucagon amyloid fibrils. Soft Matter, 2021, 17, 3486-3493.	2.7	5
62	Mechanical Properties of Sub-Microbubbles with a Nanoparticle-Decorated Polymer Shell. Langmuir, 2019, 35, 17090-17095.	3.5	4
63	Influence of the Dissolved Gas on the Interfacial Properties of Decane Surface Nanodroplets. Langmuir, 2022, 38, 2213-2219.	3.5	4
64	Gelation of a Pentapeptide in Alcohols. Langmuir, 2021, 37, 8961-8970.	3.5	3
65	Theoretical Analysis on the Stability of Single Bulk Nanobubble. Frontiers in Materials, 2022, 9, .	2.4	3
66	Formation of Bulk Nanobubbles Induced by Accelerated Electrons Irradiation: Dependences on Dose Rates and Doses of Irradiation. Langmuir, 0, , .	3.5	3
67	Metallofullerenols: Polyhydroxylated Metallofullerenols Stimulate IL-1Î² Secretion of Macrophage through TLRs/MyD88/NF-Î°B Pathway and NLRP3Inflammasome Activation (Small 12/2014). Small, 2014, 10, 2310-2310.	10.0	2
68	X-Ray Absorption Spectra and Self-Bias Ferromagnetic Resonance of FeCoB Films Prepared by Composition Gradient Sputtering. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
69	Automatic Calibrations of Sample Misalignment for Nanotomography at SSRF. Microscopy and Microanalysis, 2018, 24, 124-125.	0.4	1
70	Controllable formation of bulk perfluorohexane nanodroplets by solvent exchange. Soft Matter, 2022, 18, 425-433.	2.7	1
71	Three-dimensional ultrastructural imaging reveals the nanoscale architecture of mammalian cells. Microscopy and Microanalysis, 2021, 27, 1566-1569.	0.4	0
72	Editorial: Particle Interfaces & Interface Performance Materials. Frontiers in Materials, 2022, 9, .	2.4	0