

# Binhua Lin

## List of Publications by Year in descending order

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66  
papers

2,488  
citations

236925

25  
h-index

197818

49  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2881  
citing authors

#	ARTICLE	IF	CITATIONS
1	Free Thiols Regulate the Interactions and Self-Assembly of Thiol-Passivated Metal Nanoparticles. <i>Nano Letters</i> , 2021, 21, 1613-1619.	9.1	8
2	Structure of polymer-capped gold nanorods binding to model phospholipid monolayers. <i>JPhys Materials</i> , 2021, 4, 034004.	4.2	2
3	Influence of Substitutional Groups on the Ordering and Crystallization of Amphiphilic Silsesquioxanes at the Air-Water Interface. <i>Langmuir</i> , 2021, 37, 6232-6242.	3.5	1
4	No ordinary proteins: Adsorption and molecular orientation of monoclonal antibodies. <i>Science Advances</i> , 2021, 7, .	10.3	20
5	How Tim proteins differentially exploit membrane features to attain robust target sensitivity. <i>Biophysical Journal</i> , 2021, 120, 4891-4902.	0.5	5
6	Interaction between dilute water vapor and dodecane thiol ligated Au nanoparticles: Hydrated structure and pair potential of mean force. <i>Journal of Chemical Physics</i> , 2021, 155, 144902.	3.0	1
7	Antagonistic Role of Aqueous Complexation in the Solvent Extraction and Separation of Rare Earth Ions. <i>ACS Central Science</i> , 2021, 7, 1908-1918.	11.3	18
8	Knowledge-Based Design of 5-Fluororacil Prodrug Liposomal Formulation: Molecular Packing and Interaction Revealed by Interfacial Isotherms and X-ray Scattering Techniques. <i>Molecular Pharmaceutics</i> , 2021, 18, 4331-4340.	4.6	0
9	Structure and dynamics of lipid membranes interacting with antivirulence end-phosphorylated polyethylene glycol block copolymers. <i>Soft Matter</i> , 2020, 16, 983-989.	2.7	10
10	Spontaneous collapse of palmitic acid films on an alkaline buffer containing calcium ions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 193, 111100.	5.0	5
11	Impeded Molecular Reorganization by Polyethylene Glycol Conjugation Revealed by X-ray Reflectivity and Diffraction Measurements. <i>Langmuir</i> , 2020, 36, 7573-7581.	3.5	2
12	Evolution and Reversible Polarity of Multilayering at the Ionic Liquid/Water Interface. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6412-6419.	2.6	17
13	Armoring the Interface with Surfactants to Prevent the Adsorption of Monoclonal Antibodies. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9977-9988.	8.0	32
14	Tailoring Biomimetic Phosphorylcholine-Containing Block Copolymers as Membrane-Targeting Cellular Rescue Agents. <i>Biomacromolecules</i> , 2019, 20, 3385-3391.	5.4	11
15	Polyunsaturated Phospholipid Modified Membrane Degradation Catalyzed by a Secreted Phospholipase A2. <i>Langmuir</i> , 2019, 35, 11643-11650.	3.5	4
16	Stability of Ligands on Nanoparticles Regulating the Integrity of Biological Membranes at the Nano-Lipid Interface. <i>ACS Nano</i> , 2019, 13, 8680-8693.	14.6	59
17	Impact of Surface Amphiphilicity on the Interfacial Behavior of Janus Particle Layers under Compression. <i>Langmuir</i> , 2019, 35, 15813-15824.	3.5	33
18	Correlating Ligand Density with Cellular Uptake of Gold Nanorods Revealed by X-ray Reflectivity. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7557-7563.	0.9	4

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19	Pair and many-body interactions between ligated Au nanoparticles. <i>Journal of Chemical Physics</i> , 2019, 150, 044904.	3.0	17
20	Molecular interactions of phospholipid monolayers with a model phospholipase. <i>Soft Matter</i> , 2019, 15, 4068-4077.	2.7	8
21	The influence of fractional surface coverage on the core-core separation in ordered monolayers of thiol-ligated Au nanoparticles. <i>Soft Matter</i> , 2019, 15, 8800-8807.	2.7	10
22	Stress relaxation in quasi-two-dimensional self-assembled nanoparticle monolayers. <i>Physical Review E</i> , 2018, 97, 052803.	2.1	8
23	A comment on the position dependent diffusion coefficient representation of structural heterogeneity. <i>Journal of Chemical Physics</i> , 2018, 148, 194901.	3.0	9
24	Robust Gold Nanoparticle Sheets by Ligand Cross-Linking at the Air-Water Interface. <i>ACS Nano</i> , 2017, 11, 1292-1300.	14.6	28
25	Molecular Structure of Canonical Liquid Crystal Interfaces. <i>Journal of the American Chemical Society</i> , 2017, 139, 3841-3850.	13.7	56
26	Atomic Number Dependent Structural Transitions in Ordered Lanthanide Monolayers: Role of the Hydration Shell. <i>Langmuir</i> , 2017, 33, 1412-1418.	3.5	13
27	The role of ligands in the mechanical properties of Langmuir nanoparticle films. <i>Soft Matter</i> , 2017, 13, 3125-3133.	2.7	20
28	Increased humidity can soften glassy Langmuir polymer films by two mechanisms: plasticization of the polymer material, and suppression of the evaporation cooling effect. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10663-10675.	2.8	10
29	Two-Step Adsorption of PtCl <sub>6</sub> <sup>2-</sup> Complexes at a Charged Langmuir Monolayer: Role of Hydration and Ion Correlations. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25377-25383.	3.1	28
30	Coupling X-Ray Reflectivity and In Silico Binding to Yield Dynamics of Membrane Recognition by Tim1. <i>Biophysical Journal</i> , 2017, 113, 1505-1519.	0.5	17
31	Colloid-colloid hydrodynamic interaction around a bend in a quasi-one-dimensional channel. <i>Physical Review E</i> , 2017, 96, 012606.	2.1	0
32	Liquid Surface X-ray Studies of Gold Nanoparticle-Phospholipid Films at the Air/Water Interface. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9132-9141.	2.6	18
33	Observation of Ordered Structures in Counterion Layers near Wet Charged Surfaces: A Potential Mechanism for Charge Inversion. <i>Langmuir</i> , 2016, 32, 73-77.	3.5	14
34	Humidity-dependent compression-induced glass transition of the air-water interfacial Langmuir films of poly( <i>d</i> -lactide-ran-glycolic acid) (PLGA). <i>Soft Matter</i> , 2015, 11, 5666-5677.	2.7	20
35	Collapse of Particle-Laden Interfaces under Compression: Buckling vs Particle Expulsion. <i>Langmuir</i> , 2015, 31, 7764-7775.	3.5	90
36	Novel comparison of microscopy and diffraction techniques on the structure of iron oxide nanoparticle monolayers transferred by Langmuir-Schaefer method. <i>Review of Scientific Instruments</i> , 2015, 86, 063704.	1.3	4

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37	Mechanical Stability of Polystyrene and Janus Particle Monolayers at the Air/Water Interface. <i>Journal of the American Chemical Society</i> , 2015, 137, 15370-15373.	13.7	50
38	Interfacial Localization and Voltage-Tunable Arrays of Charged Nanoparticles. <i>Nano Letters</i> , 2014, 14, 6816-6822.	9.1	51
39	Molecular mechanism for differential recognition of membrane phosphatidylserine by the immune regulatory receptor Tim4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1463-72.	7.1	67
40	X-ray Studies of Interfacial Strontium-Extractant Complexes in a Model Solvent Extraction System. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12486-12500.	2.6	47
41	Observation of a Rare Earth Ion-Extractant Complex Arrested at the Oil-Water Interface During Solvent Extraction. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10662-10674.	2.6	64
42	Comparison of the Mechanical Properties of Self-Assembled Langmuir Monolayers of Nanoparticles and Phospholipids. <i>Langmuir</i> , 2013, 29, 11751-11757.	3.5	23
43	Synchrotron X-ray Studies of Rapidly Evolving Morphology of Self-Assembled Nanoparticle Films under Lateral Compression. <i>Langmuir</i> , 2013, 29, 14050-14056.	3.5	30
44	Ion Distributions at the Water/1,2-Dichloroethane Interface: Potential of Mean Force Approach to Analyzing X-ray Reflectivity and Interfacial Tension Measurements. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5365-5378.	2.6	36
45	Long-range hydrodynamic correlations in quasi-one-dimensional circular and straight geometries. <i>Physical Review E</i> , 2012, 86, 041402.	2.1	5
46	Tuning ion correlations at an electrified soft interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20326-20331.	7.1	74
47	X-ray fluorescence from a model liquid/liquid solvent extraction system. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	15
48	A comparative study of Langmuir surfactant films: Grazing incidence x-ray off-specular scattering vs. x-ray specular reflectivity. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	24
49	Reverse Self-Assembly: (111)-Oriented Gold Crystallization at Alkylthiol Monolayer Templates. <i>Physical Review Letters</i> , 2011, 107, 115503.	7.8	12
50	Geometric Stability and Elastic Response of a Supported Nanoparticle Film. <i>Physical Review Letters</i> , 2010, 105, 058301.	7.8	78
51	Hydrodynamic interactions in ribbon channels: From quasi-one-dimensional to quasi-two-dimensional behavior. <i>Physical Review E</i> , 2010, 82, 031403.	2.1	6
52	Spreading of colloid clusters in a quasi-one-dimensional channel. <i>Journal of Chemical Physics</i> , 2010, 132, 084902.	3.0	11
53	Geometric tools for complex interfaces: from lung surfactant to the mussel byssus. <i>Soft Matter</i> , 2009, 5, 1963.	2.7	25
54	Stress and Fold Localization in Thin Elastic Membranes. <i>Science</i> , 2008, 320, 912-916.	12.6	456

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55	Monitoring x-ray beam damage on lipid films by an integrated Brewster angle microscope/x-ray diffractometer. <i>Review of Scientific Instruments</i> , 2007, 78, 103705.	1.3	15
56	Structure, Wrinkling, and Reversibility of Langmuir Monolayers of Gold Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24522-24529.	2.6	105
57	Ion Distributions near a Liquid-Liquid Interface. <i>Science</i> , 2006, 311, 216-218.	12.6	229
58	Ion distributions at the nitrobenzene-water interface electrified by a common ion. <i>Journal of Electroanalytical Chemistry</i> , 2006, 593, 142-158.	3.8	42
59	Influence of Hydrodynamic Coupling on Pair Diffusion in a Quasi-One-Dimensional Colloid System. <i>Physical Review Letters</i> , 2005, 95, 158301.	7.8	22
60	From Random Walk to Single-File Diffusion. <i>Physical Review Letters</i> , 2005, 94, 216001.	7.8	128
61	Diffuse scattering from the liquid-vapor interfaces of dilute Bi:Ga, Tl:Ga, and Pb:Ga alloys. <i>Physical Review B</i> , 2005, 72, .	3.2	9
62	Anomalous Hydrodynamic Interaction in a Quasi-Two-Dimensional Suspension. <i>Physical Review Letters</i> , 2004, 92, 258301.	7.8	146
63	The liquid surface/interface spectrometer at ChemMatCARS synchrotron facility at the Advanced Photon Source. <i>Physica B: Condensed Matter</i> , 2003, 336, 75-80.	2.7	48
64	Structure and phase transitions in confined binary colloid mixtures. <i>Journal of Chemical Physics</i> , 2003, 119, 2386-2398.	3.0	25
65	Equilibrium structure and effective pair interaction in a quasi-one-dimensional colloid liquid. <i>Journal of Chemical Physics</i> , 2002, 116, 3119-3127.	3.0	31
66	Evanescence wave light scattering study of a diblock copolymer adsorbed at the air/water interface. <i>Journal of Chemical Physics</i> , 1993, 98, 6561-6563.	3.0	12