Bing Yuan

List of Publications by Year
in descending order

70 papers	1,329 citations	331259 21 h-index	414034 32 g-index
70 all docs	70 docs citations	70 times ranked	1861 citing authors

#	Article	IF	Citations
1	A real-time and in-situ monitoring of the molecular interactions between drug carrier polymers and a phospholipid membrane. Colloids and Surfaces B: Biointerfaces, 2022, 209, 112161.	2.5	2
2	Real-time monitoring the interfacial dynamic processes at model cell membranes: Taking cell penetrating peptide TAT as an example. Journal of Colloid and Interface Science, 2022, 609, 707-717.	5.0	9
3	Antimicrobial and Bioactive Silk Peptide Hybrid Hydrogel with a Heterogeneous Double Network Formed by Orthogonal Assembly. ACS Biomaterials Science and Engineering, 2022, 8, 89-99.	2.6	9
4	Interactions between polymyxin B and various bacterial membrane mimics: A molecular dynamics study. Colloids and Surfaces B: Biointerfaces, 2022, 211, 112288.	2.5	6
5	Chiral carbon dots â€“ a functional domain for tyrosinase Cu active site modulation <i>via</i> remote target interaction. Nanoscale, 2022, 14, 1202-1210.	2.8	10
6	Real-time monitoring the staged interactions between cationic surfactants and a phospholipid bilayer membrane. Physical Chemistry Chemical Physics, 2022, 24, 5360-5370.	1.3	0
7	Twist-diameter coupling drives DNA twist changes with salt and temperature. Science Advances, 2022, 8, eabn1384.	4.7	10
8	Single-molecule study on the interactions between melittin and a lipid membrane. Wuli Xuebao/Acta Physica Sinica, 2021, .	0.2	2
9	Cholesterols Work as a Molecular Regulator of the Antimicrobial Peptide-Membrane Interactions. Frontiers in Molecular Biosciences, 2021, 8, 638988.	1.6	5
10	Cardiolipin Selectively Binds to the Interface of <i>Vs</i>SemiSWEET and Regulates Its Dimerization. Journal of Physical Chemistry Letters, 2021, 12, 1940-1946.	2.1	7
11	A molecular architectural design that promises potent antimicrobial activity against multidrug-resistant pathogens. NPG Asia Materials, 2021, 13, .	3.8	15
12	Lipid Phase Influences the Dynamic Interactions between Graphene Oxide Nanosheets and a Phospholipid Membrane. Journal of Physical Chemistry B, 2021, 125, 3589-3597.	1.2	6
13	Membrane perturbation of fullerene and graphene oxide distinguished by pore-forming peptide melittin. Carbon, 2021, 180, 67-76.	5.4	12
14	Computational design of a minimal â€œprotein-likeâ€•conjugate for potent membrane poration. Giant, 2021, 8, 100071.	2.5	4
15	Membrane-curvature-mediated co-endocytosis of bystander and functional nanoparticles. Nanoscale, 2021, 13, 9626-9633.	2.8	12
16	Coarse-grained simulations uncover Gram-negative bacterial defense against polymyxins by the outer membrane. Computational and Structural Biotechnology Journal, 2021, 19, 3885-3891.	1.9	13
17	A novel chemical biology and computational approach to expedite the discovery of new-generation polymyxins against life-threatening <i>Acinetobacter baumannii</i>. Chemical Science, 2021, 12, 12211-12220.	3.7	13
18	Ligand-decoration determines the translational and rotational dynamics of nanoparticles on a lipid bilayer membrane. Physical Chemistry Chemical Physics, 2021, 23, 9158-9165.	1.3	2

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19	Photo-Voltage Transients for Real-Time Analysis of the Interactions between Molecules and Membranes. ACS Applied Bio Materials, 2021, 4, 620-629.	2.3	5
20	Biophysical Impact of Lipid A Modification Caused by Mobile Colistin Resistance Gene on Bacterial Outer Membranes. Journal of Physical Chemistry Letters, 2021, 12, 11629-11635.	2.1	9
21	The key structural features governing the free radicals and catalytic activity of graphite/graphene oxide. Physical Chemistry Chemical Physics, 2020, 22, 3112-3121.	1.3	30
22	Bifunctional graphene oxide nanosheets for interfacially robust polymer actuators with instant solvent-induced self-folding. Polymer, 2020, 186, 122037.	1.8	4
23	Outer Membranes of Polymyxin-Resistant <i>Acinetobacter baumannii</i> with Phosphoethanolamine-Modified Lipid A and Lipopolysaccharide Loss Display Different Atomic-Scale Interactions with Polymyxins. ACS Infectious Diseases, 2020, 6, 2698-2708.	1.8	19
24	Simulations of octapeptinâ€“outer membrane interactions reveal conformational flexibility is linked to antimicrobial potency. Journal of Biological Chemistry, 2020, 295, 15902-15912.	1.6	13
25	Molecular dynamics simulations informed by membrane lipidomics reveal the structureâ€“interaction relationship of polymyxins with the lipid A-based outer membrane of <i>Acinetobacter baumannii</i>. Journal of Antimicrobial Chemotherapy, 2020, 75, 3534-3543.	1.3	25
26	Correlation between Single-Molecule Dynamics and Biological Functions of Antimicrobial Peptide Melittin. Journal of Physical Chemistry Letters, 2020, 11, 4834-4841.	2.1	24
27	Individual Roles of Peptides PGLa and Magainin 2 in Synergistic Membrane Poration. Langmuir, 2020, 36, 7190-7199.	1.6	24
28	Lipid-specific interactions determine the organization and dynamics of membrane-active peptide melittin. Soft Matter, 2020, 16, 3498-3504.	1.2	15
29	Structureâ€“Interaction Relationship of Polymyxins with the Membrane of Human Kidney Proximal Tubular Cells. ACS Infectious Diseases, 2020, 6, 2110-2119.	1.8	18
30	Tail-structure regulated phase behaviors of a lipid bilayer*. Chinese Physics B, 2020, 29, 128701.	0.7	6
31	Single molecular kinetics during the interactions between melittin and a bi-component lipid membrane. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 108701.	0.2	6
32	Residue-Specialized Membrane Poration Kinetics of Melittin and Its Variants: Insight from Mechanistic Landscapes*. Communications in Theoretical Physics, 2019, 71, 887.	1.1	15
33	How Melittin Inserts into Cell Membrane: Conformational Changes, Inter-Peptide Cooperation, and Disturbance on the Membrane. Molecules, 2019, 24, 1775.	1.7	68
34	In-situ GISAXS investigation of the structure evolution mechanism of template removal of ordered mesoporous films prepared via a soft-templating method. Applied Surface Science, 2019, 479, 776-785.	3.1	4
35	Graphene oxide as antibacterial sensitizer: Mechanically disturbed cell membrane for enhanced poration efficiency of melittin. Carbon, 2019, 149, 248-256.	5.4	30
36	Designing Melittinâ€Graphene Hybrid Complexes for Enhanced Antibacterial Activity. Advanced Healthcare Materials, 2019, 8, e1801521.	3.9	36

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37	Manipulating the fractal fiber network of a molecular gel with surfactants. Journal of Colloid and Interface Science, 2018, 526, 356-365.	5.0	9
38	Partitioning of nanoscale particles on a heterogeneous multicomponent lipid bilayer. Physical Chemistry Chemical Physics, 2018, 20, 28241-28248.	1.3	14
39	Molecular details on the intermediate states of melittin action on a cell membrane. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2234-2241.	1.4	39
40	Partner-facilitating transmembrane penetration of nanoparticles: a biological test in silico. Nanoscale, 2018, 10, 11670-11678.	2.8	16
41	Photoluminescence modulation of silicon nanoparticles via highly ordered arrangement with phospholipid membranes. Colloids and Surfaces B: Biointerfaces, 2018, 170, 656-662.	2.5	1
42	Molecular modeling of transmembrane delivery of paclitaxel by shock waves with nanobubbles. Applied Physics Letters, 2017, 110, .	1.5	21
43	Optimizing the free radical content of graphene oxide by controlling its reduction. Carbon, 2017, 116, 703-712.	5.4	45
44	One-pot synthesis of silicon based nanoparticles with incorporated phthalocyanine for long-term bioimaging and photo-dynamic therapy of tumors. Nanotechnology, 2017, 28, 135601.	1.3	1
45	Plasmon-enhanced fluorescence imaging with silicon-based silver chips for protein and nucleic acid assay. Analytica Chimica Acta, 2017, 955, 98-107.	2.6	9
46	Modulated enhancement in ion transport through carbon nanotubes by lipid decoration. Carbon, 2017, 111, 459-466.	5.4	8
47	Controlling the Nanoscale Rotational Behaviors of Nanoparticles on the Cell Membranes: A Computational Model. Small, 2016, 12, 1140-1146.	5.2	26
48	Synergistic Coassembly of Two Structurally Different Molecular Gelators. Langmuir, 2016, 32, 12175-12183.	1.6	10
49	Controlling the Supramolecular Architecture of Molecular Gels with Surfactants. Langmuir, 2016, 32, 1171-1177.	1.6	10
50	Cooperative Transmembrane Penetration of Nanoparticles. Scientific Reports, 2015, 5, 10525.	1.6	51
51	Self-assembly of monolayered lipid membranes for surface-coating of a nanoconfined Bombyx mori silk fibroin film. RSC Advances, 2015, 5, 65684-65689.	1.7	4
52	Reduced graphene oxide directed self-assembly of phospholipid monolayers in liquid and gel phases. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1203-1211.	1.4	29
53	Encapsulation of Hydrophobic Phthalocyanine with Poly(N-isopropylacrylamide)/Lipid Composite Microspheres for Thermo-Responsive Release and Photodynamic Therapy. Materials, 2014, 7, 3481-3493.	1.3	15
54	Effect of Receptor Structure and Length on the Wrapping of a Nanoparticle by a Lipid Membrane. Materials, 2014, 7, 3855-3866.	1.3	9

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55	Tunable dual-stimuli response of a microgel composite consisting of reduced graphene oxide nanoparticles and poly(N-isopropylacrylamide) hydrogel microspheres. Journal of Materials Chemistry B, 2014, 2, 3791-3798.	2.9	34
56	Lipid merging, protrusion and vesicle release triggered by shrinking/swelling of poly(N-isopropylacrylamide) microgel particles. Applied Surface Science, 2014, 296, 95-99.	3.1	12
57	Controlled Drug Loading and Release of a Stimuli-Responsive Lipogel Consisting of Poly(<i>N</i>-isopropylacrylamide) Particles and Lipids. Journal of Physical Chemistry B, 2013, 117, 9677-9682.	1.2	30
58	Influence of geometric nanoparticle rotation on cellular internalization process. Nanoscale, 2013, 5, 7998.	2.8	37
59	A review of optical imaging and therapy using nanosized graphene and graphene oxide. Biomaterials, 2013, 34, 9519-9534.	5.7	160
60	Control of crystallization in supramolecular soft materials engineering. Soft Matter, 2013, 9, 435-442.	1.2	22
61	Vesicle deposition and subsequent membraneâ€“melittin interactions on different substrates: A QCM-D experiment. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1918-1925.	1.4	25
62	Influence of Surface Chemistry on Particle Internalization into Giant Unilamellar Vesicles. Langmuir, 2013, 29, 8039-8045.	1.6	21
63	Molecular Response and Cooperative Behavior during the Interactions of Melittin with a Membrane: Dissipative Quartz Crystal Microbalance Experiments and Simulations. Journal of Physical Chemistry B, 2012, 116, 9432-9438.	1.2	39
64	Curvature Changes of Bilayer Membranes Studied by Computer Simulations. Journal of Physical Chemistry B, 2012, 116, 7196-7202.	1.2	11
65	Self-assembly of multilayered functional films based on graphene oxide sheets for controlled release. Journal of Materials Chemistry, 2011, 21, 3471.	6.7	33
66	Volume confinement induced microstructural transitions and property enhancements of supramolecular soft materials. Soft Matter, 2011, 7, 1708-1713.	1.2	17
67	Kinetically Controlled Homogenization and Transformation of Crystalline Fiber Networks in Supramolecular Materials. Crystal Growth and Design, 2011, 11, 3227-3234.	1.4	22
68	Electrical bistability in self-assembled hybrid multilayers of phospholipid and nanoparticles. Nanotechnology, 2011, 22, 315303.	1.3	8
69	Penetration and Saturation of Lysozyme in Phospholipid Bilayers. Journal of Physical Chemistry B, 2007, 111, 6151-6155.	1.2	17
70	Self-Assembly of Highly Oriented Lamellar Nanoparticle-Phospholipid Nanocomposites on Solid Surfaces. Journal of the American Chemical Society, 2007, 129, 11332-11333.	6.6	36