Ruhong Zhou

List of Publications by Year
in descending order

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321 papers	23,154 citations	9234 74 h-index	10127 140 g-index
338 all docs	338 docs citations	338 times ranked	24207 citing authors

#	Article	IF	Citations
1	Graphene oxide toxicity in W1118 flies. Science of the Total Environment, 2022, 805, 150302.	3.9	18
2	De Novo Design of a Pt Nanocatalyst on a Conjugated Microporous Polymer-Coated Honeycomb Carrier for Oxidation of Hydrogen Isotopes. ACS Applied Materials & Interfaces, 2022, 14, 7826-7835.	4.0	6
3	Two-Dimensional Imprinting Strategy to Create Specific Nanotrap for Selective Uranium Adsorption with Ultrahigh Capacity. ACS Applied Materials & Interfaces, 2022, 14, 9408-9417.	4.0	28
4	Single nucleobase identification for transversally-confined ssDNA using longitudinal ionic currents. Nanoscale, 2022, , .	2.8	0
5	Role of polyplex charge density in lipopolyplex. Nanoscale, 2022, 14, 7174-7180.	2.8	0
6	Distinct lipid membrane interaction and uptake of differentially charged nanoplastics in bacteria. Journal of Nanobiotechnology, 2022, 20, 191.	4.2	30
7	Binding Affinity Calculations of Gluten Peptides to HLA Risk Modifiers: DQ2.5 versus DQ7.5. Journal of Physical Chemistry B, 2022, 126, 5151-5160.	1.2	2
8	Ionic Liquid Decelerates Single-Stranded DNA Transport through Molybdenum Disulfide Nanopores. ACS Applied Materials & Interfaces, 2022, 14, 32618-32624.	4.0	3
9	Possible Co-Evolution of Polyglutamine and Polyproline in Huntingtin Protein: Proline-Rich Domain as Transient Folding Chaperone. Journal of Physical Chemistry Letters, 2022, 13, 6331-6341.	2.1	3
10	Metalloâ€Helicoid with Double Rims: Polymerization Followed by Folding by Intramolecular Coordination. Angewandte Chemie, 2021, 133, 1301-1309.	1.6	2
11	Metalloâ€Helicoid with Double Rims: Polymerization Followed by Folding by Intramolecular Coordination. Angewandte Chemie - International Edition, 2021, 60, 1281-1289.	7.2	18
12	Dioxybenzone triggers enhanced estrogenic effect via metabolic activation: in silico, inÂvitro and inÂvivo investigation. Environmental Pollution, 2021, 268, 115766.	3.7	6
13	Molecular mechanism of secreted amyloid-Î² precursor protein in binding and modulating GABA_BR1a. Chemical Science, 2021, 12, 6107-6116.	3.7	9
14	Self-cascade MoS₂ nanozymes for efficient intracellular antioxidation and hepatic fibrosis therapy. Nanoscale, 2021, 13, 12613-12622.	2.8	31
15	Molecular Dynamics Simulation Study on Interactions of Cycloviolacin with Different Phospholipids. Journal of Physical Chemistry B, 2021, 125, 3476-3485.	1.2	8
16	Biotransformation of rare earth oxide nanoparticles eliciting microbiota imbalance. Particle and Fibre Toxicology, 2021, 18, 17.	2.8	14
17	Doseâ€Independent Transfection of Hydrophobized Polyplexes. Advanced Materials, 2021, 33, e2102219.	11.1	23
18	Multifaceted Regulation of Potassium-Ion Channels by Graphene Quantum Dots. ACS Applied Materials & Interfaces, 2021, 13, 27784-27795.	4.0	4

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19	CASTELO: clustered atom subtypes aided lead optimizationâ€"a combined machine learning and molecular modeling method. BMC Bioinformatics, 2021, 22, 338.	1.2	4
20	Ionic conductance oscillations in sub-nanometer pores probed by optoelectronic control. Matter, 2021, 4, 2378-2391.	5.0	13
21	Exploring an In-Plane Graphene and Hexagonal Boron Nitride Array for Separation of Single Nucleotides. ACS Nano, 2021, 15, 11704-11710.	7.3	12
22	Boron nitride nanosheets elicit significant hemolytic activity via destruction of red blood cell membranes. Colloids and Surfaces B: Biointerfaces, 2021, 203, 111765.	2.5	16
23	Hydrophobic collapse-driven nanoparticle coating with poly-adenine adhesives. Chemical Communications, 2021, 57, 3801-3804.	2.2	18
24	Modeling Noncanonical RNA Base Pairs by a Coarse-Grained IsRNA2 Model. Journal of Physical Chemistry B, 2021, 125, 11907-11915.	1.2	13
25	Molecular Insight into AC Electric Field Enhanced Removal of Protein Aggregates from a Material Surface. Journal of Physical Chemistry B, 2021, 125, 12147-12153.	1.2	0
26	Potential interference of graphene nanosheets in immune response via disrupting the recognition of HLA-presented KK10 by TCR: a molecular dynamics simulation study. Nanoscale, 2021, 13, 19255-19263.	2.8	4
27	Planar Boronic Graphene and Nitrogenized Graphene Heterostructure for Protein Stretch and Confinement. Biomolecules, 2021, 11, 1756.	1.8	1
28	Dynamics-Based Peptideâ€"MHC Binding Optimization by a Convolutional Variational Autoencoder: A Use-Case Model for CASTELO. Journal of Chemical Theory and Computation, 2021, 17, 7962-7971.	2.3	7
29	HIV-1 induced changes in HLA-Câˆ—03â€Šâ€Š04-presented peptide repertoires lead to reduced engagement of inhibitory natural killer cell receptors. Aids, 2020, 34, 1713-1723.	1.0	28
30	Spontaneous Translocation of Single-Stranded DNA in Grapheneâ€"MoS₂ Heterostructure Nanopores: Shape Effect. Journal of Physical Chemistry B, 2020, 124, 9490-9496.	1.2	12
31	99TcO4â^' removal from legacy defense nuclear waste by an alkaline-stable 2D cationic metal organic framework. Nature Communications, 2020, 11, 5571.	5.8	124
32	Low-Dose X-ray-Responsive Diselenide Nanocarriers for Effective Delivery of Anticancer Agents. ACS Applied Materials & Interfaces, 2020, 12, 43398-43407.	4.0	27
33	Partial Denaturation of Villin Headpiece upon Binding to a Carbon Nitride Polyaniline (C₃N) Nanosheet. Journal of Physical Chemistry B, 2020, 124, 7557-7563.	1.2	8
34	Emergence of a Radicalâ€Stabilizing Metalâ€"Organic Framework as a Radioâ€photoluminescence Dosimeter. Angewandte Chemie - International Edition, 2020, 59, 15209-15214.	7.2	56
35	Theoretical modeling of interactions at the bio-nano interface. Nanoscale, 2020, 12, 10426-10429.	2.8	7
36	Structural Basis of the Potential Binding Mechanism of Remdesivir to SARS-CoV-2 RNA-Dependent RNA Polymerase. Journal of Physical Chemistry B, 2020, 124, 6955-6962.	1.2	105

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37	Planar graphene/h-BN/graphene heterostructures for protein stretching and confinement. Nanoscale, 2020, 12, 13822-13828.	2.8	15
38	Tungsten Oxide Nanodots Exhibit Mild Interactions with WW and SH3 Modular Protein Domains. ACS Omega, 2020, 5, 11005-11012.	1.6	1
39	A Porous Aromatic Framework Functionalized with Luminescent Iridium(III) Organometallic Complexes for Turn-On Sensing of ⁹⁹TcO₄^{â€“}. ACS Applied Materials & Interfaces, 2020, 12, 15288-15297.	4.0	46
40	In silico design and validation of high-affinity RNA aptamers targeting epithelial cellular adhesion molecule dimers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8486-8493.	3.3	49
41	Graphene-extracted membrane lipids facilitate the activation of integrin Î±vÎ²8. Nanoscale, 2020, 12, 7939-7949.	2.8	22
42	Half a century of amyloids: past, present and future. Chemical Society Reviews, 2020, 49, 5473-5509.	18.7	345
43	Stabilization of Open-Shell Single Bonds within Endohedral Metallofullerene. Inorganic Chemistry, 2020, 59, 3606-3618.	1.9	11
44	Directional extraction and penetration of phosphorene nanosheets to cell membranes. Nanoscale, 2020, 12, 2810-2819.	2.8	27
45	Retained Stability of the RNA Structure in DNA Packaging Motor with a Single Mg²⁺ Ion Bound at the Double Mg-Clamp Structure. Journal of Physical Chemistry B, 2020, 124, 701-707.	1.2	4
46	N-Oxide polymerâ€“cupric ion nanogels potentiate disulfiram for cancer therapy. Biomaterials Science, 2020, 8, 1726-1733.	2.6	11
47	Zipper-Like Unfolding of dsDNA Caused by Graphene Wrinkles. Journal of Physical Chemistry C, 2020, 124, 3332-3340.	1.5	11
48	Electron Beam Irradiation as a General Approach for the Rapid Synthesis of Covalent Organic Frameworks under Ambient Conditions. Journal of the American Chemical Society, 2020, 142, 9169-9174.	6.6	90
49	Binding patterns and dynamics of double-stranded DNA on the phosphorene surface. Nanoscale, 2020, 12, 9430-9439.	2.8	17
50	Emergence of a Radicalâ€Stabilizing Metalâ€“Organic Framework as a Radioâ€photoluminescence Dosimeter. Angewandte Chemie, 2020, 132, 15321-15326.	1.6	14
51	Proteasome activity regulated by charged gold nanoclusters: Implications for neurodegenerative diseases. Nano Today, 2020, 35, 100933.	6.2	10
52	Commensal bacteria stimulate antitumor responses via T cell cross-reactivity. JCI Insight, 2020, 5, .	2.3	95
53	Exploration of HIV-1 fusion peptideâ€“antibody VRC34.01 binding reveals fundamental neutralization sites. Physical Chemistry Chemical Physics, 2019, 21, 18569-18576.	1.3	5
54	Lanosterol Disrupts the Aggregation of Amyloid-Î² Peptides. ACS Chemical Neuroscience, 2019, 10, 4051-4060.	1.7	14

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55	Parameterization of Molybdenum Disulfide Interacting with Water Using the Free Energy Perturbation Method. Journal of Physical Chemistry B, 2019, 123, 7243-7252.	1.2	11
56	Stability of Ligands on Nanoparticles Regulating the Integrity of Biological Membranes at the Nanoâ€“Lipid Interface. ACS Nano, 2019, 13, 8680-8693.	7.3	59
57	Surface Inhomogeneity of Graphene Oxide Influences Dissociation of AÎ²_{16â€“21} Peptide Assembly. Journal of Physical Chemistry B, 2019, 123, 9098-9103.	1.2	13
58	Spontaneous ssDNA stretching on graphene and hexagonal boron nitride in plane heterostructures. Nature Communications, 2019, 10, 4610.	5.8	36
59	Stimulating antibacterial activities of graphitic carbon nitride nanosheets with plasma treatment. Nanoscale, 2019, 11, 18416-18425.	2.8	41
60	Different platinum crystal surfaces show very distinct protein denaturation capabilities. Nanoscale, 2019, 11, 19352-19361.	2.8	3
61	Modeling and Structural Characterization of the Sweet Taste Receptor Heterodimer. ACS Chemical Neuroscience, 2019, 10, 4579-4592.	1.7	18
62	Facet-regulated adhesion of double-stranded DNA on palladium surfaces. Nanoscale, 2019, 11, 1827-1836.	2.8	11
63	Inorganic X-ray Scintillators Based on a Previously Unnoticed but Intrinsically Advantageous Metal Center. Inorganic Chemistry, 2019, 58, 2807-2812.	1.9	13
64	Robust Antibacterial Activity of Tungsten Oxide (WO_{3-x}) Nanodots. Chemical Research in Toxicology, 2019, 32, 1357-1366.	1.7	73
65	A 3,2-Hydroxypyridinone-based Decorporation Agent that Removes Uranium from Bones In Vivo. Nature Communications, 2019, 10, 2570.	5.8	107
66	A Public BCR Present in a Unique Dual-Receptor-Expressing Lymphocyte from Type 1 Diabetes Patients Encodes a Potent T Cell Autoantigen. Cell, 2019, 177, 1583-1599.e16.	13.5	103
67	Different protonated states at the C-terminal of the amyloid-Î² peptide modulate the stability of S-shaped protofibril. Journal of Chemical Physics, 2019, 150, 185102.	1.2	3
68	Molecular Origin of the Stability Difference in Four Shark IgNAR Constant Domains. Biophysical Journal, 2019, 116, 1907-1917.	0.2	6
69	Defect-assisted protein HP35 denaturation on graphene. Nanoscale, 2019, 11, 19362-19369.	2.8	30
70	Combined Computationalâ€“Experimental Approach to Explore the Molecular Mechanism of SaCas9 with a Broadened DNA Targeting Range. Journal of the American Chemical Society, 2019, 141, 6545-6552.	6.6	31
71	Protein WW domain denaturation on defective graphene reveals the significance of nanomaterial defects in nanotoxicity. Carbon, 2019, 146, 257-264.	5.4	24
72	Mechanism unravelling for ultrafast and selective ⁹⁹TcO₄^{â^’} uptake by a radiation-resistant cationic covalent organic framework: a combined radiological experiment and molecular dynamics simulation study. Chemical Science, 2019, 10, 4293-4305.	3.7	181

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73	Successful Decontamination of ⁹⁹TcO₄^{â^'} in Groundwater at Legacy Nuclear Sites by a Cationic Metalâ€Organic Framework with Hydrophobic Pockets. Angewandte Chemie - International Edition, 2019, 58, 4968-4972.	7.2	177
74	Successful Decontamination of ⁹⁹TcO₄^{â^'} in Groundwater at Legacy Nuclear Sites by a Cationic Metalâ€Organic Framework with Hydrophobic Pockets. Angewandte Chemie, 2019, 131, 5022-5026.	1.6	37
75	The molecular mechanism of robust macrophage immune responses induced by PEGylated molybdenum disulfide. Nanoscale, 2019, 11, 22293-22304.	2.8	35
76	Physical and toxicological profiles of human IAPP amyloids and plaques. Science Bulletin, 2019, 64, 26-35.	4.3	24
77	Atomic-Scale Fluidic Diodes Based on Triangular Nanopores in Bilayer Hexagonal Boron Nitride. Nano Letters, 2019, 19, 977-982.	4.5	31
78	Exploring the binding mechanism between human profilin (PFN1) and polyproline-10 through binding mode screening. Journal of Chemical Physics, 2019, 150, 015102.	1.2	4
79	Charging nanoparticles: increased binding of Gd@C₈₂(OH)₂₂ derivatives to human MMP-9. Nanoscale, 2018, 10, 5667-5677.	2.8	25
80	Câ€“O^{â^'}â€“K⁺ (Na⁺) groups in non-doped carbon as active sites for the oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 8955-8961.	5.2	28
81	Unique Proton Transportation Pathway in a Robust Inorganic Coordination Polymer Leading to Intrinsically High and Sustainable Anhydrous Proton Conductivity. Journal of the American Chemical Society, 2018, 140, 6146-6155.	6.6	181
82	Rare Dissipative Transitions Punctuate the Initiation of Chemical Denaturation in Proteins. Biophysical Journal, 2018, 114, 812-821.	0.2	0
83	Spontaneous Transport of Single-Stranded DNA through Grapheneâ€“MoS₂ Heterostructure Nanopores. ACS Nano, 2018, 12, 3886-3891.	7.3	57
84	Facile and Efficient Decontamination of Thorium from Rare Earths Based on Selective Selenite Crystallization. Inorganic Chemistry, 2018, 57, 1880-1887.	1.9	32
85	Inhibition of the proteasome activity by graphene oxide contributes to its cytotoxicity. Nanotoxicology, 2018, 12, 185-200.	1.6	14
86	T cell receptors for the HIV KK10 epitope from patients with differential immunologic control are functionally indistinguishable. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1877-1882.	3.3	15
87	Inhibition of CYP2C8 by metallofullerenol Gd@C82(OH)22 through blocking substrate channels and substrate recognition sites. Carbon, 2018, 127, 667-675.	5.4	9
88	Phase transition triggered aggregation-induced emission in a photoluminescent uranylâ€“organic framework. Chemical Communications, 2018, 54, 627-630.	2.2	35
89	Binding Specificity Determines the Cytochrome P450 3A4 Mediated Enantioselective Metabolism of Metconazole. Journal of Physical Chemistry B, 2018, 122, 1176-1184.	1.2	29
90	Highly Sensitive Detection of UV Radiation Using a Uranium Coordination Polymer. ACS Applied Materials & Interfaces, 2018, 10, 4844-4850.	4.0	52

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91	Differential Pd-nanocrystal facets demonstrate distinct antibacterial activity against Gram-positive and Gram-negative bacteria. Nature Communications, 2018, 9, 129.	5.8	414
92	An Ultrastable Heterobimetallic Uranium(IV)/Vanadium(III) Solid Compound Protected by a Redox-Active Phosphite Ligand: Crystal Structure, Oxidative Dissolution, and First-Principles Simulation. Inorganic Chemistry, 2018, 57, 903-907.	1.9	8
93	Mechanism by which DHA inhibits the aggregation of KLVFFA peptides: A molecular dynamics study. Journal of Chemical Physics, 2018, 148, 115102.	1.2	7
94	Molecular mechanism of Gd@C 82 (OH) 22 increasing collagen expression: Implication for encaging tumor. Biomaterials, 2018, 152, 24-36.	5.7	26
95	Exploring the Nanotoxicology of MoS₂: A Study on the Interaction of MoS₂ Nanoflakes and K⁺ Channels. ACS Nano, 2018, 12, 705-717.	7.3	44
96	Patient HLA class I genotype influences cancer response to checkpoint blockade immunotherapy. Science, 2018, 359, 582-587.	6.0	834
97	Concentration-dependent binding of CdSe quantum dots on the SH3 domain. Nanoscale, 2018, 10, 351-358.	2.8	8
98	Metalâ€“organic framework as an efficient filter for the removal of heavy metal cations in water. Physical Chemistry Chemical Physics, 2018, 20, 30384-30391.	1.3	20
99	Palladium concave nanocrystals with high-index facets accelerate ascorbate oxidation in cancer treatment. Nature Communications, 2018, 9, 4861.	5.8	84
100	Superior Compatibility of C₂N with Human Red Blood Cell Membranes and the Underlying Mechanism. Small, 2018, 14, e1803509.	5.2	33
101	Molecular mechanism of phosphoinositides' specificity for the inwardly rectifying potassium channel Kir2.2. Chemical Science, 2018, 9, 8352-8362.	3.7	2
102	Degradable Carbon Dots with Broad-Spectrum Antibacterial Activity. ACS Applied Materials & Interfaces, 2018, 10, 26936-26946.	4.0	246
103	Glassy dynamics in mutant huntingtin proteins. Journal of Chemical Physics, 2018, 149, 072333.	1.2	9
104	Single-File Protein Translocations through Grapheneâ€“MoS₂ Heterostructure Nanopores. Journal of Physical Chemistry Letters, 2018, 9, 3409-3415.	2.1	45
105	Lanosterol Disrupts Aggregation of Human Î³D-Crystallin by Binding to the Hydrophobic Dimerization Interface. Journal of the American Chemical Society, 2018, 140, 8479-8486.	6.6	42
106	Membrane Insertion and Phospholipids Extraction by Graphyne Nanosheets. Journal of Physical Chemistry C, 2017, 121, 2444-2450.	1.5	31
107	High-Curvature Nanostructuring Enhances Probe Display for Biomolecular Detection. Nano Letters, 2017, 17, 1289-1295.	4.5	64
108	Mild Binding of Protein to C₂N Monolayer Reveals Its Suitable Biocompatibility. Small, 2017, 13, 1603685.	5.2	37

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109	Graphene-Induced Pore Formation on Cell Membranes. Scientific Reports, 2017, 7, 42767.	1.6	103
110	Highly Sensitive and Selective Uranium Detection in Natural Water Systems Using a Luminescent Mesoporous Metalâ€“Organic Framework Equipped with Abundant Lewis Basic Sites: A Combined Batch, X-ray Absorption Spectroscopy, and First Principles Simulation Investigation. Environmental Science & Technology, 2017, 51, 3911-3921.	4.6	331
111	PEGylated graphene oxide elicits strong immunological responses despite surface passivation. Nature Communications, 2017, 8, 14537.	5.8	157
112	Molecular Mechanism of Stabilizing the Helical Structure of Huntingtin N17 in a Micellar Environment. Journal of Physical Chemistry B, 2017, 121, 4713-4721.	1.2	11
113	A novel self-activation mechanism of Candida antarctica lipase B. Physical Chemistry Chemical Physics, 2017, 19, 15709-15714.	1.3	18
114	Exceptional Perrhenate/Pertechnetate Uptake and Subsequent Immobilization by a Low-Dimensional Cationic Coordination Polymer: Overcoming the Hofmeister Bias Selectivity. Environmental Science and Technology Letters, 2017, 4, 316-322.	3.9	181
115	Overcoming the crystallization and designability issues in the ultrastable zirconium phosphonate framework system. Nature Communications, 2017, 8, 15369.	5.8	366
116	Understanding the graphene quantum dots-ubiquitin interaction by identifying the interaction sites. Carbon, 2017, 121, 285-291.	5.4	17
117	Emerging Î²-Sheet Rich Conformations in Supercompact Huntingtin Exon-1 Mutant Structures. Journal of the American Chemical Society, 2017, 139, 8820-8827.	6.6	43
118	Impact of graphyne on structural and dynamical properties of calmodulin. Physical Chemistry Chemical Physics, 2017, 19, 10187-10195.	1.3	10
119	Orientational Binding of DNA Guided by the C₂N Template. ACS Nano, 2017, 11, 3198-3206.	7.3	51
120	Structural influence of proteins upon adsorption to MoS₂ nanomaterials: comparison of MoS₂ force field parameters. Physical Chemistry Chemical Physics, 2017, 19, 3039-3045.	1.3	43
121	Snatching the Ligand or Destroying the Structure: Disruption of WW Domain by Phosphorene. Journal of Physical Chemistry C, 2017, 121, 1362-1370.	1.5	14
122	Identifying the Recognition Site for Selective Trapping of ⁹⁹TcO₄^{â€“} in a Hydrolytically Stable and Radiation Resistant Cationic Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 14873-14876.	6.6	386
123	Hydrogen and methane storage and release by MoS₂ nanotubes for energy storage. Journal of Materials Chemistry A, 2017, 5, 23020-23027.	5.2	33
124	Phosphatidylserine-Induced Conformational Modulation of Immune Cell Exhaustion-Associated Receptor TIM3. Scientific Reports, 2017, 7, 13579.	1.6	8
125	Directional mechanical stability of Bacteriophage Ï†29 motorâ€™s 3WJ-pRNA: Extraordinary robustness along portal axis. Science Advances, 2017, 3, e1601684.	4.7	17
126	Hydroxyl-Group-Dominated Graphite Dots Reshape Laser Desorption/Ionization Mass Spectrometry for Small Biomolecular Analysis and Imaging. ACS Nano, 2017, 11, 9500-9513.	7.3	79

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127	Humidityâ€Responsive Singleâ€Nanoparticleâ€Layer Plasmonic Films. Advanced Materials, 2017, 29, 1606796.	11.1	25
128	Thickness dependent semiconductor-to-metal transition of two-dimensional polyaniline with unique work functions. Nanoscale, 2017, 9, 12025-12031.	2.8	24
129	Structural perturbations on huntingtin N17 domain during its folding on 2D-nanomaterials. Nanotechnology, 2017, 28, 354001.	1.3	12
130	Membrane destruction-mediated antibacterial activity of tungsten disulfide (WS₂). RSC Advances, 2017, 7, 37873-37880.	1.7	76
131	Detecting Interactions between Nanomaterials and Cell Membranes by Synthetic Nanopores. ACS Nano, 2017, 11, 12615-12623.	7.3	25
132	A mesoporous cationic thorium-organic framework that rapidly traps anionic persistent organic pollutants. Nature Communications, 2017, 8, 1354.	5.8	296
133	Graphene Oxide Nanosheets Retard Cellular Migration via Disruption of Actin Cytoskeleton. Small, 2017, 13, 1602133.	5.2	68
134	Propensity of a single-walled carbon nanotube-peptide to mimic a KK10 peptide in an HLA-TCR complex. Journal of Chemical Physics, 2017, 147, 225101.	1.2	3
135	A new molecular mechanism underlying the EGCG-mediated autophagic modulation of AFP in HepG2 cells. Cell Death and Disease, 2017, 8, e3160-e3160.	2.7	48
136	An In Silico study of TiO2 nanoparticles interaction with twenty standard amino acids in aqueous solution. Scientific Reports, 2016, 6, 37761.	1.6	40
137	EGCG in Green Tea Induces Aggregation of HMGB1 Protein through Large Conformational Changes with Polarized Charge Redistribution. Scientific Reports, 2016, 6, 22128.	1.6	19
138	Molecular Structure and Dynamics of Water on Pristine and Strained Phosphorene: Wetting and Diffusion at Nanoscale. Scientific Reports, 2016, 6, 38327.	1.6	30
139	Potential disruption of protein-protein interactions by graphene oxide. Journal of Chemical Physics, 2016, 144, 225102.	1.2	24
140	Exploring biological effects of MoS2 nanosheets on native structures of Î±-helical peptides. Journal of Chemical Physics, 2016, 144, 175103.	1.2	37
141	Wettability and friction of water on a MoS2 nanosheet. Applied Physics Letters, 2016, 108, .	1.5	113
142	Structural Damage of a Î²-Sheet Protein upon Adsorption onto Molybdenum Disulfide Nanotubes. Journal of Physical Chemistry C, 2016, 120, 6796-6803.	1.5	39
143	Polymeric prodrugs conjugated with reduction-sensitive dextranâ€“camptothecin and pH-responsive dextranâ€“doxorubicin: an effective combinatorial drug delivery platform for cancer therapy. Polymer Chemistry, 2016, 7, 4198-4212.	1.9	53
144	Self-Assembled Coreâ€“Satellite Gold Nanoparticle Networks for Ultrasensitive Detection of Chiral Molecules by Recognition Tunneling Current. ACS Nano, 2016, 10, 5096-5103.	7.3	47

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145	The Molecular Mechanism of Opening the Helix Bundle Crossing (HBC) Gate of a Kir Channel. Scientific Reports, 2016, 6, 29399.	1.6	26
146	Robust Denaturation of Villin Headpiece by MoS2 Nanosheet: Potential Molecular Origin of the Nanotoxicity. Scientific Reports, 2016, 6, 28252.	1.6	33
147	Single-Walled Carbon Nanotubes Inhibit the Cytochrome P450 Enzyme, CYP3A4. Scientific Reports, 2016, 6, 21316.	1.6	43
148	Folding and Stabilization of Native-Sequence-Reversed Proteins. Scientific Reports, 2016, 6, 25138.	1.6	6
149	Mechanism of Divalent-Ion-Induced Charge Inversion of Bacterial Membranes. Journal of Physical Chemistry Letters, 2016, 7, 2434-2438.	2.1	20
150	Exploring the Membrane Potential of Simple Dual-Membrane Systems as Models for Gap-Junction Channels. Biophysical Journal, 2016, 110, 2678-2688.	0.2	14
151	Opening Lids: Modulation of Lipase Immobilization by Graphene Oxides. ACS Catalysis, 2016, 6, 4760-4768.	5.5	139
152	Tunable, Strain-Controlled Nanoporous MoS₂ Filter for Water Desalination. ACS Nano, 2016, 10, 1829-1835.	7.3	212
153	Sequential protein unfolding through a carbon nanotube pore. Nanoscale, 2016, 8, 12143-12151.	2.8	17
154	Complete wetting of graphene by biological lipids. Nanoscale, 2016, 8, 5750-5754.	2.8	83
155	Potential Interference of Proteinâ€“Protein Interactions by Graphyne. Journal of Physical Chemistry B, 2016, 120, 2124-2131.	1.2	18
156	Toward high permeability, selectivity and controllability of water desalination with FePc nanopores. Physical Chemistry Chemical Physics, 2016, 18, 8140-8147.	1.3	11
157	Nanomechanics of Protein Unfolding Outside a Generic Nanopore. ACS Nano, 2016, 10, 317-323.	7.3	27
158	DNA translocation through single-layer boron nitride nanopores. Soft Matter, 2016, 12, 817-823.	1.2	49
159	Selection of an HLA-C*03:04-Restricted HIV-1 p24 Gag Sequence Variant Is Associated with Viral Escape from KIR2DL3+ Natural Killer Cells: Data from an Observational Cohort in South Africa. PLoS Medicine, 2015, 12, e1001900.	3.9	66
160	Reduced Cytotoxicity of Graphene Nanosheets Mediated by Blood-Protein Coating. ACS Nano, 2015, 9, 5713-5724.	7.3	271
161	Bio-mimicking of Proline-Rich Motif Applied to Carbon Nanotube Reveals Unexpected Subtleties Underlying Nanoparticle Functionalization. Scientific Reports, 2015, 4, 7229.	1.6	4
162	Ionic liquid induced inactivation of cellobiohydrolase I from Trichoderma reesei. Green Chemistry, 2015, 17, 1618-1625.	4.6	22

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163	Hydrated Excess Protons Can Create Their Own Water Wires. Journal of Physical Chemistry B, 2015, 119, 9212-9218.	1.2	83
164	Towards understanding of nanoparticleâ€“protein corona. Archives of Toxicology, 2015, 89, 519-539.	1.9	135
165	Nanopore-Based Sensors for Ligandâ€“Receptor Lead Optimization. Journal of Physical Chemistry Letters, 2015, 6, 331-337.	2.1	5
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