

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	Destructive extraction of phospholipids from Escherichia coli membranes by graphene nanosheets. Nature Nanotechnology, 2013, 8, 594-601.	15.6	1,260
2	Binding of blood proteins to carbon nanotubes reduces cytotoxicity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16968-16973.	3.3	839
3	Patient HLA class I genotype influences cancer response to checkpoint blockade immunotherapy. Science, 2018, 359, 582-587.	6.0	834
4	The free energy landscape for α hairpin folding in explicit water. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 14931-14936.	3.3	499
5	Hydrophobic Collapse in Multidomain Protein Folding. Science, 2004, 305, 1605-1609.	6.0	482
6	Urea denaturation by stronger dispersion interactions with proteins than water implies a 2-stage unfolding. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16928-16933.	3.3	470
7	Dewetting and Hydrophobic Interaction in Physical and Biological Systems. Annual Review of Physical Chemistry, 2009, 60, 85-103.	4.8	423
8	Differential Pd-nanocrystal facets demonstrate distinct antibacterial activity against Gram-positive and Gram-negative bacteria. Nature Communications, 2018, 9, 129.	5.8	414
9	Identifying the Recognition Site for Selective Trapping of $^{99}\text{TcO}_4^-$ in a Hydrolytically Stable and Radiation Resistant Cationic Metal-Organic Framework. Journal of the American Chemical Society, 2017, 139, 14873-14876.	6.6	386
10	Overcoming the crystallization and designability issues in the ultrastable zirconium phosphonate framework system. Nature Communications, 2017, 8, 15369.	5.8	366
11	Observation of a dewetting transition in the collapse of the melittin tetramer. Nature, 2005, 437, 159-162.	13.7	362
12	Trp-cage: Folding free energy landscape in explicit water. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13280-13285.	3.3	347
13	Half a century of amyloids: past, present and future. Chemical Society Reviews, 2020, 49, 5473-5509.	18.7	345
14	Highly Sensitive and Selective Uranium Detection in Natural Water Systems Using a Luminescent Mesoporous Metal-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
15	Can a continuum solvent model reproduce the free energy landscape of a α -hairpin folding in water?. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12777-12782.	3.3	326
16	Development of a polarizable force field for proteins via ab initio quantum chemistry: First generation model and gas phase tests. Journal of Computational Chemistry, 2002, 23, 1515-1531.	1.5	296
17	A mesoporous cationic thorium-organic framework that rapidly traps anionic persistent organic pollutants. Nature Communications, 2017, 8, 1354.	5.8	296
18	Electrostatic gating of a nanometer water channel. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3687-3692.	3.3	295

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19	Comprehensive interrogation of natural TALE DNA-binding modules and transcriptional repressor domains. <i>Nature Communications</i> , 2012, 3, 968.	5.8	291
20	Urea's Action on Hydrophobic Interactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 1535-1541.	6.6	288
21	Free energy landscape of protein folding in water: Explicit vs. implicit solvent. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 53, 148-161.	1.5	284
22	Reduced Cytotoxicity of Graphene Nanosheets Mediated by Blood-Protein Coating. <i>ACS Nano</i> , 2015, 9, 5713-5724.	7.3	271
23	Probing the Self-Assembly Mechanism of Diphenylalanine-Based Peptide Nanovesicles and Nanotubes. <i>ACS Nano</i> , 2012, 6, 3907-3918.	7.3	264
24	Parametrizing a polarizable force field from ab initio data. I. The fluctuating point charge model. <i>Journal of Chemical Physics</i> , 1999, 110, 741-754.	1.2	251
25	Fluctuating Charge, Polarizable Dipole, and Combined Models: Parameterization from ab Initio Quantum Chemistry. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4730-4737.	1.2	250
26	Degradable Carbon Dots with Broad-Spectrum Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26936-26946.	4.0	246
27	Tunable, Strain-Controlled Nanoporous MoS ₂ Filter for Water Desalination. <i>ACS Nano</i> , 2016, 10, 1829-1835.	7.3	212
28	Blue Gene: A vision for protein science using a petaflop supercomputer. <i>IBM Systems Journal</i> , 2001, 40, 310-327.	3.1	211
29	Role of Water in Mediating the Assembly of Alzheimer Amyloid- β Protofilaments. <i>Journal of the American Chemical Society</i> , 2008, 130, 11066-11072.	6.6	208
30	Protein corona mitigates the cytotoxicity of graphene oxide by reducing its physical interaction with cell membrane. <i>Nanoscale</i> , 2015, 7, 15214-15224.	2.8	204
31	Molecular mechanism of pancreatic tumor metastasis inhibition by Gd@C ₈₂ (OH) ₂₂ and its implication for de novo design of nanomedicine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15431-15436.	3.3	200
32	Adsorption of Villin Headpiece onto Graphene, Carbon Nanotube, and C60: Effect of Contacting Surface Curvatures on Binding Affinity. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23323-23328.	1.5	181
33	Exceptional Perrhenate/Perchnetate Uptake and Subsequent Immobilization by a Low-Dimensional Cationic Coordination Polymer: Overcoming the Hofmeister Bias Selectivity. <i>Environmental Science and Technology Letters</i> , 2017, 4, 316-322.	3.9	181
34	Unique Proton Transportation Pathway in a Robust Inorganic Coordination Polymer Leading to Intrinsically High and Sustainable Anhydrous Proton Conductivity. <i>Journal of the American Chemical Society</i> , 2018, 140, 6146-6155.	6.6	181
35	Mechanism unravelling for ultrafast and selective ⁹⁹ TcO ₄ ⁻ uptake by a radiation-resistant cationic covalent organic framework: a combined radiological experiment and molecular dynamics simulation study. <i>Chemical Science</i> , 2019, 10, 4293-4305.	3.7	181
36	Successful Decontamination of ⁹⁹ TcO ₄ ⁻ in Groundwater at Legacy Nuclear Sites by a Cationic Metal-Organic Framework with Hydrophobic Pockets. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4968-4972.	7.2	177

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37	Describing Protein Folding Kinetics by Molecular Dynamics Simulations. 2. Example Applications to Alanine Dipeptide and a β -Hairpin Peptide. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6582-6594.	1.2	171
38	Plugging into Proteins: Poisoning Protein Function by a Hydrophobic Nanoparticle. <i>ACS Nano</i> , 2010, 4, 7508-7514.	7.3	168
39	Potential Toxicity of Graphene to Cell Functions <i>via</i> Disrupting Protein-Protein Interactions. <i>ACS Nano</i> , 2015, 9, 663-669.	7.3	164
40	PEGylated graphene oxide elicits strong immunological responses despite surface passivation. <i>Nature Communications</i> , 2017, 8, 14537.	5.8	157
41	Poisson-Boltzmann Analytical Gradients for Molecular Modeling Calculations. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3057-3061.	1.2	146
42	Opening Lids: Modulation of Lipase Immobilization by Graphene Oxides. <i>ACS Catalysis</i> , 2016, 6, 4760-4768.	5.5	139
43	Towards understanding of nanoparticle-protein corona. <i>Archives of Toxicology</i> , 2015, 89, 519-539.	1.9	135
44	Interactions Between Proteins and Carbon-Based Nanoparticles: Exploring the Origin of Nanotoxicity at the Molecular Level. <i>Small</i> , 2013, 9, 1546-1556.	5.2	132
45	New Linear Interaction Method for Binding Affinity Calculations Using a Continuum Solvent Model. <i>Journal of Physical Chemistry B</i> , 2001, 105, 10388-10397.	1.2	124
46	$^{99}\text{TcO}_4^-$ removal from legacy defense nuclear waste by an alkaline-stable 2D cationic metal organic framework. <i>Nature Communications</i> , 2020, 11, 5571.	5.8	124
47	Molecular dynamics with multiple time scales: The selection of efficient reference system propagators. <i>Journal of Chemical Physics</i> , 1996, 105, 1426-1436.	1.2	121
48	Efficient multiple time step method for use with Ewald and particle mesh Ewald for large biomolecular systems. <i>Journal of Chemical Physics</i> , 2001, 115, 2348-2358.	1.2	121
49	Water-mediated signal multiplication with Y-shaped carbon nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18120-18124.	3.3	120
50	Aggregation of β -crystallins associated with human cataracts via domain swapping at the C-terminal β -strands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10514-10519.	3.3	117
51	Wettability and friction of water on a MoS ₂ nanosheet. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	113
52	Large scale simulation of macromolecules in solution: Combining the periodic fast multipole method with multiple time step integrators. <i>Journal of Chemical Physics</i> , 1997, 106, 9835-9849.	1.2	108
53	A 3,2-Hydroxypyridinone-based Decorporation Agent that Removes Uranium from Bones In Vivo. <i>Nature Communications</i> , 2019, 10, 2570.	5.8	107
54	Structural Basis of the Potential Binding Mechanism of Remdesivir to SARS-CoV-2 RNA-Dependent RNA Polymerase. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6955-6962.	1.2	105

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55	Replica Exchange with Solute Tempering: Efficiency in Large Scale Systems. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5405-5410.	1.2	103
56	Amino acid analogues bind to carbon nanotube via π - π interactions: Comparison of molecular mechanical and quantum mechanical calculations. <i>Journal of Chemical Physics</i> , 2012, 136, 025103.	1.2	103
57	Graphene-Induced Pore Formation on Cell Membranes. <i>Scientific Reports</i> , 2017, 7, 42767.	1.6	103
58	A Public BCR Present in a Unique Dual-Receptor-Expressing Lymphocyte from Type 1 Diabetes Patients Encodes a Potent T Cell Autoantigen. <i>Cell</i> , 2019, 177, 1583-1599.e16.	13.5	103
59	Cytotoxicity of graphene: recent advances and future perspective. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014, 6, 452-474.	3.3	101
60	Destruction of amyloid fibrils by graphene through penetration and extraction of peptides. <i>Nanoscale</i> , 2015, 7, 18725-18737.	2.8	101
61	Triphenylalanine peptides self-assemble into nanospheres and nanorods that are different from the nanovesicles and nanotubes formed by diphenylalanine peptides. <i>Nanoscale</i> , 2014, 6, 2800.	2.8	100
62	Surface Curvature Relation to Protein Adsorption for Carbon-based Nanomaterials. <i>Scientific Reports</i> , 2015, 5, 10886.	1.6	97
63	A new molecular dynamics method combining the reference system propagator algorithm with a fast multipole method for simulating proteins and other complex systems. <i>Journal of Chemical Physics</i> , 1995, 103, 9444-9459.	1.2	96
64	Commensal bacteria stimulate antitumor responses via T cell cross-reactivity. <i>JCI Insight</i> , 2020, 5, .	2.3	95
65	Dynamics of Water Confined in the Interdomain Region of a Multidomain Protein. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3704-3711.	1.2	93
66	Electron Beam Irradiation as a General Approach for the Rapid Synthesis of Covalent Organic Frameworks under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2020, 142, 9169-9174.	6.6	90
67	The role of basic residues in the adsorption of blood proteins onto the graphene surface. <i>Scientific Reports</i> , 2015, 5, 10873.	1.6	88
68	Smart walking: A new method for Boltzmann sampling of protein conformations. <i>Journal of Chemical Physics</i> , 1997, 107, 9185-9196.	1.2	87
69	Palladium concave nanocrystals with high-index facets accelerate ascorbate oxidation in cancer treatment. <i>Nature Communications</i> , 2018, 9, 4861.	5.8	84
70	How force unfolding differs from chemical denaturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3413-3418.	3.3	83
71	Hydrated Excess Protons Can Create Their Own Water Wires. <i>Journal of Physical Chemistry B</i> , 2015, 119, 9212-9218.	1.2	83
72	Complete wetting of graphene by biological lipids. <i>Nanoscale</i> , 2016, 8, 5750-5754.	2.8	83

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73	A Peptide-Coated Gold Nanocluster Exhibits Unique Behavior in Protein Activity Inhibition. <i>Journal of the American Chemical Society</i> , 2015, 137, 8412-8418.	6.6	79
74	Hydroxyl-Group-Dominated Graphite Dots Reshape Laser Desorption/Ionization Mass Spectrometry for Small Biomolecular Analysis and Imaging. <i>ACS Nano</i> , 2017, 11, 9500-9513.	7.3	79
75	Nanoscale Dewetting Transition in Protein Complex Folding. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9069-9077.	1.2	78
76	Free energy simulations reveal a double mutant avian H5N1 virus hemagglutinin with altered receptor binding specificity. <i>Journal of Computational Chemistry</i> , 2009, 30, 1654-1663.	1.5	77
77	Thermal Denaturing of Mutant Lysozyme with Both the OPLSAA and the CHARMM Force Fields. <i>Journal of the American Chemical Society</i> , 2006, 128, 13388-13395.	6.6	76
78	Single Mutation Induced H3N2 Hemagglutinin Antibody Neutralization: A Free Energy Perturbation Study. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15813-15820.	1.2	76
79	Membrane destruction-mediated antibacterial activity of tungsten disulfide (WS ₂). <i>RSC Advances</i> , 2017, 7, 37873-37880.	1.7	76
80	Hydration and Dewetting near Graphite~CH ₃ and Graphite~COOH Plates. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13639-13648.	1.2	74
81	Hydrophobic Aided Replica Exchange: An Efficient Algorithm for Protein Folding in Explicit Solvent. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19018-19022.	1.2	74
82	Robust Antibacterial Activity of Tungsten Oxide (WO _{3-x}) Nanodots. <i>Chemical Research in Toxicology</i> , 2019, 32, 1357-1366.	1.7	73
83	Drying and Hydrophobic Collapse of Paraffin Plates. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3546-3552.	1.2	71
84	Destruction of long-range interactions by a single mutation in lysozyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5824-5829.	3.3	71
85	Exploring the protein folding free energy landscape: coupling replica exchange method with P3ME/RESPA algorithm. <i>Journal of Molecular Graphics and Modelling</i> , 2004, 22, 451-463.	1.3	69
86	Graphene Oxide Nanosheets Retard Cellular Migration via Disruption of Actin Cytoskeleton. <i>Small</i> , 2017, 13, 1602133.	5.2	68
87	Hydration and Dewetting near Fluorinated Superhydrophobic Plates. <i>Journal of the American Chemical Society</i> , 2006, 128, 12439-12447.	6.6	66
88	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. <i>PLoS Medicine</i> , 2015, 12, e1001900.	3.9	66
89	Revealing the importance of surface morphology of nanomaterials to biological responses: Adsorption of the villin headpiece onto graphene and phosphorene. <i>Carbon</i> , 2015, 94, 895-902.	5.4	65
90	Gd~Metallofullerenol Nanomaterial Suppresses Pancreatic Cancer Metastasis by Inhibiting the Interaction of Histone Deacetylase 1 and Metastasis-Associated Protein 1. <i>ACS Nano</i> , 2015, 9, 6826-6836.	7.3	64

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91	High-Curvature Nanostructuring Enhances Probe Display for Biomolecular Detection. <i>Nano Letters</i> , 2017, 17, 1289-1295.	4.5	64
92	Blue Matter, an application framework for molecular simulation on Blue Gene. <i>Journal of Parallel and Distributed Computing</i> , 2003, 63, 759-773.	2.7	62
93	Replica Exchange Molecular Dynamics Method for Protein Folding Simulation. , 2007, 350, 205-224.		62
94	Molecular dynamics simulations of Ago silencing complexes reveal a large repertoire of admissible "seed-less"™ targets. <i>Scientific Reports</i> , 2012, 2, 569.	1.6	62
95	Stability of Ligands on Nanoparticles Regulating the Integrity of Biological Membranes at the Nano" Lipid Interface. <i>ACS Nano</i> , 2019, 13, 8680-8693.	7.3	59
96	Urea-Induced Drying of Carbon Nanotubes Suggests Existence of a Dry Globule-like Transient State During Chemical Denaturation of Proteins. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5427-5430.	1.2	58
97	Molecular Dynamics with Multiple Time Scales: How to Avoid Pitfalls. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1798-1804.	2.3	57
98	Spontaneous Transport of Single-Stranded DNA through Graphene"MoS ₂ Heterostructure Nanopores. <i>ACS Nano</i> , 2018, 12, 3886-3891.	7.3	57
99	A computationally inexpensive modification of the point dipole electrostatic polarization model for molecular simulations. <i>Journal of Computational Chemistry</i> , 2003, 24, 267-276.	1.5	56
100	Carbon Nanotube Wins the Competitive Binding over Proline-Rich Motif Ligand on SH3 Domain. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12322-12328.	1.5	56
101	Hydrophobic Interaction Drives Surface-Assisted Epitaxial Assembly of Amyloid-like Peptides. <i>Journal of the American Chemical Society</i> , 2013, 135, 3150-3157.	6.6	56
102	Nanomedicine: de novo design of nanodrugs. <i>Nanoscale</i> , 2014, 6, 663-677.	2.8	56
103	Emergence of a Radical"Stabilizing Metal"Organic Framework as a Radio"photoluminescence Dosimeter. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15209-15214.	7.2	56
104	Collapse of Unfolded Proteins in a Mixture of Denaturants. <i>Journal of the American Chemical Society</i> , 2012, 134, 18266-18274.	6.6	55
105	Polymeric prodrugs conjugated with reduction-sensitive dextran"camptothecin and pH-responsive dextran"doxorubicin: an effective combinatorial drug delivery platform for cancer therapy. <i>Polymer Chemistry</i> , 2016, 7, 4198-4212.	1.9	53
106	Urea-Induced Drying of Hydrophobic Nanotubes: Comparison of Different Urea Models. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2988-2994.	1.2	52
107	Highly Sensitive Detection of UV Radiation Using a Uranium Coordination Polymer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4844-4850.	4.0	52
108	Orientational Binding of DNA Guided by the C ₂ N Template. <i>ACS Nano</i> , 2017, 11, 3198-3206.	7.3	51

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109	Exploration of graphene oxide as an intelligent platform for cancer vaccines. <i>Nanoscale</i> , 2015, 7, 19949-19957.	2.8	49
110	DNA translocation through single-layer boron nitride nanopores. <i>Soft Matter</i> , 2016, 12, 817-823.	1.2	49
111	In silico design and validation of high-affinity RNA aptamers targeting epithelial cellular adhesion molecule dimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8486-8493.	3.3	49
112	A new molecular mechanism underlying the EGCG-mediated autophagic modulation of AFP in HepG2 cells. <i>Cell Death and Disease</i> , 2017, 8, e3160-e3160.	2.7	48
113	Self-Assembled Core-Satellite Gold Nanoparticle Networks for Ultrasensitive Detection of Chiral Molecules by Recognition Tunneling Current. <i>ACS Nano</i> , 2016, 10, 5096-5103.	7.3	47
114	Salts drive controllable multilayered upright assembly of amyloid-like peptides at mica/water interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8543-8548.	3.3	46
115	A Porous Aromatic Framework Functionalized with Luminescent Iridium(III) Organometallic Complexes for Turn-On Sensing of TcO_4^- . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15288-15297.	4.0	46
116	Single-File Protein Translocations through Graphene-MoS ₂ Heterostructure Nanopores. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3409-3415.	2.1	45
117	Is Poisson-Boltzmann theory insufficient for protein folding simulations?. <i>Journal of Chemical Physics</i> , 2006, 124, 034902.	1.2	44
118	Exploring the Nanotoxicology of MoS ₂ : A Study on the Interaction of MoS ₂ Nanoflakes and K ⁺ Channels. <i>ACS Nano</i> , 2018, 12, 705-717.	7.3	44
119	Single-Walled Carbon Nanotubes Inhibit the Cytochrome P450 Enzyme, CYP3A4. <i>Scientific Reports</i> , 2016, 6, 21316.	1.6	43
120	Emerging β^2 -Sheet Rich Conformations in Supercompact Huntingtin Exon-1 Mutant Structures. <i>Journal of the American Chemical Society</i> , 2017, 139, 8820-8827.	6.6	43
121	Structural influence of proteins upon adsorption to MoS ₂ nanomaterials: comparison of MoS ₂ force field parameters. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3039-3045.	1.3	43
122	Lanosterol Disrupts Aggregation of Human β^3 D-Crystallin by Binding to the Hydrophobic Dimerization Interface. <i>Journal of the American Chemical Society</i> , 2018, 140, 8479-8486.	6.6	42
123	Non-destructive Inhibition of Metallofullerenol Gd@C82(OH)22 on WW domain: Implication on Signal Transduction Pathway. <i>Scientific Reports</i> , 2012, 2, 957.	1.6	41
124	Simplified TiO ₂ force fields for studies of its interaction with biomolecules. <i>Journal of Chemical Physics</i> , 2015, 142, 234102.	1.2	41
125	Stimulating antibacterial activities of graphitic carbon nitride nanosheets with plasma treatment. <i>Nanoscale</i> , 2019, 11, 18416-18425.	2.8	41
126	An In Silico study of TiO ₂ nanoparticles interaction with twenty standard amino acids in aqueous solution. <i>Scientific Reports</i> , 2016, 6, 37761.	1.6	40

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127	Structural Damage of a β -Sheet Protein upon Adsorption onto Molybdenum Disulfide Nanotubes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6796-6803.	1.5	39
128	β -strand interactions at the domain interface critical for the stability of human lens β -crystallin. <i>Protein Science</i> , 2010, 19, 131-140.	3.1	38
129	Salting Effects on Protein Components in Aqueous NaCl and Urea Solutions: Toward Understanding of Urea-Induced Protein Denaturation. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1446-1451.	1.2	38
130	Blue Matter: Strong Scaling of Molecular Dynamics on Blue Gene/L. <i>Lecture Notes in Computer Science</i> , 2006, , 846-854.	1.0	38
131	UV-radiation Induced Disruption of Dry-Cavities in Human β -crystallin Results in Decreased Stability and Faster Unfolding. <i>Scientific Reports</i> , 2013, 3, 1560.	1.6	37
132	Exploring biological effects of MoS ₂ nanosheets on native structures of α -helical peptides. <i>Journal of Chemical Physics</i> , 2016, 144, 175103.	1.2	37
133	Mild Binding of Protein to C ₂ N Monolayer Reveals Its Suitable Biocompatibility. <i>Small</i> , 2017, 13, 1603685.	5.2	37
134	Successful Decontamination of ⁹⁹ TcO ₄ ⁻ in Groundwater at Legacy Nuclear Sites by a Cationic Metal-Organic Framework with Hydrophobic Pockets. <i>Angewandte Chemie</i> , 2019, 131, 5022-5026.	1.6	37
135	Spontaneous ssDNA stretching on graphene and hexagonal boron nitride in plane heterostructures. <i>Nature Communications</i> , 2019, 10, 4610.	5.8	36
136	Comment on "Urea-Mediated Protein Denaturation: A Consensus View". <i>Journal of Physical Chemistry B</i> , 2011, 115, 1323-1326.	1.2	35
137	Phase transition triggered aggregation-induced emission in a photoluminescent uranyl-organic framework. <i>Chemical Communications</i> , 2018, 54, 627-630.	2.2	35
138	The molecular mechanism of robust macrophage immune responses induced by PEGylated molybdenum disulfide. <i>Nanoscale</i> , 2019, 11, 22293-22304.	2.8	35
139	Comment on "Can a Continuum Solvent Model Reproduce the Free Energy Landscape of a β -Hairpin Folding in Water? The Poisson-Boltzmann Equation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7528-7530.	1.2	34
140	Characterization of a Novel Water Pocket Inside the Human Cx26 Hemichannel Structure. <i>Biophysical Journal</i> , 2014, 107, 599-612.	0.2	34
141	Large scale molecular simulations of nanotoxicity. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2014, 6, 329-343.	6.6	34
142	Total-energy calculations for acetylene adsorption and decomposition on Si(100)-2 \times 1. <i>Physical Review B</i> , 1993, 47, 10601-10606.	1.1	33
143	Single Mutation Effects on Conformational Change and Membrane Deformation of Influenza Hemagglutinin Fusion Peptides. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8799-8806.	1.2	33
144	Signal transmission, conversion and multiplication by polar molecules confined in nanochannels. <i>Nanoscale</i> , 2010, 2, 1976.	2.8	33

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145	Dynamics of DNA translocation in a solid-state nanopore immersed in aqueous glycerol. <i>Nanotechnology</i> , 2012, 23, 455102.	1.3	33
146	Robust Denaturation of Villin Headpiece by MoS ₂ Nanosheet: Potential Molecular Origin of the Nanotoxicity. <i>Scientific Reports</i> , 2016, 6, 28252.	1.6	33
147	Hydrogen and methane storage and release by MoS ₂ nanotubes for energy storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23020-23027.	5.2	33
148	Superior Compatibility of C ₂ N with Human Red Blood Cell Membranes and the Underlying Mechanism. <i>Small</i> , 2018, 14, e1803509.	5.2	33
149	Facile and Efficient Decontamination of Thorium from Rare Earths Based on Selective Selenite Crystallization. <i>Inorganic Chemistry</i> , 2018, 57, 1880-1887.	1.9	32
150	Using a mutual information-based site transition network to map the genetic evolution of influenza A/H3N2 virus. <i>Bioinformatics</i> , 2009, 25, 2309-2317.	1.8	31
151	Membrane Insertion and Phospholipids Extraction by Graphyne Nanosheets. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2444-2450.	1.5	31
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