

Jeffrey Comer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9306055/publications.pdf>

Version: 2024-02-01

71
papers

2,973
citations

159573

30
h-index

168376

53
g-index

72
all docs

72
docs citations

72
times ranked

3953
citing authors

#	ARTICLE	IF	CITATIONS
1	The Adaptive Biasing Force Method: Everything You Always Wanted To Know but Were Afraid To Ask. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1129-1151.	2.6	351
2	Assessing Graphene Nanopores for Sequencing DNA. <i>Nano Letters</i> , 2012, 12, 4117-4123.	9.1	237
3	Simulation-Based Approaches for Determining Membrane Permeability of Small Compounds. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 721-733.	5.4	174
4	Detection of DNA Sequences Using an Alternating Electric Field in a Nanopore Capacitor. <i>Nano Letters</i> , 2008, 8, 56-63.	9.1	162
5	Predicting the DNA Sequence Dependence of Nanopore Ion Current Using Atomic-Resolution Brownian Dynamics. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3376-3393.	3.1	90
6	Predicting Adsorption Affinities of Small Molecules on Carbon Nanotubes Using Molecular Dynamics Simulation. <i>ACS Nano</i> , 2015, 9, 11761-11774.	14.6	89
7	Paclitaxel-PHBV nanoparticles and their toxicity to endometrial and primary ovarian cancer cells. <i>Biomaterials</i> , 2013, 34, 4098-4108.	11.4	87
8	Dangerous Liaisons between Detergents and Membrane Proteins. The Case of Mitochondrial Uncoupling Protein 2. <i>Journal of the American Chemical Society</i> , 2013, 135, 15174-15182.	13.7	86
9	Microscopic Mechanics of Hairpin DNA Translocation through Synthetic Nanopores. <i>Biophysical Journal</i> , 2009, 96, 593-608.	0.5	84
10	Computationally Efficient Methodology for Atomic-Level Characterization of Dendrimer-Drug Complexes: A Comparison of Amine- and Acetyl-Terminated PAMAM. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6801-6813.	2.6	80
11	DNA Base-Calling from a Nanopore Using a Viterbi Algorithm. <i>Biophysical Journal</i> , 2012, 102, L37-L39.	0.5	75
12	Slowing the translocation of double-stranded DNA using a nanopore smaller than the double helix. <i>Nanotechnology</i> , 2010, 21, 395501.	2.6	74
13	Multiple-Replica Strategies for Free-Energy Calculations in NAMD: Multiple-Walker Adaptive Biasing Force and Walker Selection Rules. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5276-5285.	5.3	66
14	Stretching and unzipping nucleic acid hairpins using a synthetic nanopore. <i>Nucleic Acids Research</i> , 2008, 36, 1532-1541.	14.5	65
15	Molecular Determinants of Phosphatidylinositol 4,5-Bisphosphate (PI(4,5)P ₂) Binding to Transient Receptor Potential V1 (TRPV1) Channels. <i>Journal of Biological Chemistry</i> , 2015, 290, 2086-2098.	3.4	65
16	Calculating Position-Dependent Diffusivity in Biased Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 876-882.	5.3	64
17	Subdiffusion in Membrane Permeation of Small Molecules. <i>Scientific Reports</i> , 2016, 6, 35913.	3.3	63
18	Calculation of Lipid-Bilayer Permeabilities Using an Average Force. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 554-564.	5.3	57

#	ARTICLE	IF	CITATIONS
19	Lipid bilayer coated Al ₂ O ₃ nanopore sensors: towards a hybrid biological solid-state nanopore. <i>Biomedical Microdevices</i> , 2011, 13, 671-682.	2.8	52
20	New Insights into Peptide-Silver Nanoparticle Interaction: Deciphering the Role of Cysteine and Lysine in the Peptide Sequence. <i>Langmuir</i> , 2016, 32, 265-273.	3.5	49
21	Close encounters with DNA. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 413101.	1.8	46
22	Diffusive Models of Membrane Permeation with Explicit Orientational Freedom. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2710-2718.	5.3	43
23	Sonoporation at Small and Large Length Scales: Effect of Cavitation Bubble Collapse on Membranes. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 413-418.	4.6	41
24	Rose Bengal Binding to Collagen and Tissue Photobonding. <i>ACS Omega</i> , 2017, 2, 6646-6657.	3.5	41
25	Thermodynamics of Adsorption on Graphenic Surfaces from Aqueous Solution. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1302-1316.	5.3	41
26	Analyzing the forces binding a restriction endonuclease to DNA using a synthetic nanopore. <i>Nucleic Acids Research</i> , 2009, 37, 4170-4179.	14.5	39
27	Link between Membrane Composition and Permeability to Drugs. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2895-2909.	5.3	35
28	Atomically resolved interfacial water structures on crystalline hydrophilic and hydrophobic surfaces. <i>Nanoscale</i> , 2021, 13, 5275-5283.	5.6	35
29	Permeability of a Fluid Lipid Bilayer to Short-Chain Alcohols from First Principles. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2523-2532.	5.3	33
30	Microscopic Perspective on the Adsorption Isotherm of a Heterogeneous Surface. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1804-1807.	4.6	32
31	Water Conduction through a Peptide Nanotube. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26797-26803.	3.1	30
32	Self-Assembly of Amphiphilic Dendrimers: The Role of Generation and Alkyl Chain Length in siRNA Interaction. <i>Scientific Reports</i> , 2016, 6, 29436.	3.3	30
33	Understanding Noncovalent Interactions of Small Molecules with Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2017, 23, 12909-12916.	3.3	30
34	DNA sequence-dependent ionic currents in ultra-small solid-state nanopores. <i>Nanoscale</i> , 2016, 8, 9600-9613.	5.6	29
35	Affordable Membrane Permeability Calculations: Permeation of Short-Chain Alcohols through Pure-Lipid Bilayers and a Mammalian Cell Membrane. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2913-2924.	5.3	27
36	Inhibition of a Snake Venom Metalloproteinase by the Flavonoid Myricetin. <i>Molecules</i> , 2018, 23, 2662.	3.8	26

#	ARTICLE	IF	CITATIONS
37	Modeling Pressure-Driven Transport of Proteins Through a Nanochannel. IEEE Nanotechnology Magazine, 2011, 10, 75-82.	2.0	25
38	The influence of polyethylene glycol passivation on the surface plasmon resonance induced photothermal properties of gold nanorods. Nanoscale, 2018, 10, 13684-13693.	5.6	24
39	Achieving ergodic sampling using replica-exchange free-energy calculations. Molecular Simulation, 2014, 40, 218-228.	2.0	23
40	Determinants of Alanine Dipeptide Conformational Equilibria on Graphene and Hydroxylated Derivatives. Journal of Physical Chemistry B, 2017, 121, 3895-3907.	2.6	23
41	Exploring adsorption of neutral aromatic pollutants onto graphene nanomaterials via molecular dynamics simulations and theoretical linear solvation energy relationships. Environmental Science: Nano, 2018, 5, 2117-2128.	4.3	22
42	Predicting the preferred morphology of hexagonal boron nitride domain structure on nickel from ReaxFF-based molecular dynamics simulations. Nanoscale, 2019, 11, 5607-5616.	5.6	20
43	Atoms-to-microns model for small solute transport through sticky nanochannels. Lab on A Chip, 2011, 11, 3766.	6.0	19
44	In situ and in silico evaluation of amine- and folate-terminated dendrimers as nanocarriers of anesthetics. European Journal of Medicinal Chemistry, 2014, 73, 250-257.	5.5	17
45	Enzyme and Cancer Cell Selectivity of Nanoparticles: Inhibition of 3-D Metastatic Phenotype and Experimental Melanoma by Zinc Oxide. Journal of Biomedical Nanotechnology, 2017, 13, 221-231.	1.1	15
46	Toward detection of DNA-bound proteins using solid-state nanopores: Insights from computer simulations. Electrophoresis, 2012, 33, 3466-3479.	2.4	14
47	Novel specific peptides as superior surface stabilizers for silver nano structures: role of peptide chain length. Journal of Materials Chemistry B, 2017, 5, 8925-8928.	5.8	14
48	Iodide Binding in Sodium-Coupled Cotransporters. Journal of Chemical Information and Modeling, 2017, 57, 3043-3055.	5.4	12
49	Comparative Molecular Immunological Activity of Physiological Metal Oxide Nanoparticle and its Anticancer Peptide and RNA Complexes. Nanomaterials, 2019, 9, 1670.	4.1	12
50	Water extract from Euglena gracilis prevents lung carcinoma growth in mice by attenuation of the myeloid-derived cell population. Biomedicine and Pharmacotherapy, 2020, 127, 110166.	5.6	12
51	Experimental and Computational Characterization of the Interaction between Gold Nanoparticles and Polyamidoamine Dendrimers. Langmuir, 2018, 34, 10063-10072.	3.5	11
52	Polymeric substances for the removal of ochratoxin A from red wine followed by computational modeling of the complexes formed. Food Chemistry, 2018, 265, 159-164.	8.2	10
53	Cell Wall Membrane Fraction of <i>Chlorella sorokiniana</i> Enhances Host Antitumor Immunity and Inhibits Colon Carcinoma Growth in Mice. Integrative Cancer Therapies, 2020, 19, 153473541990055.	2.0	10
54	Comparative functional dynamics studies on the enzyme nano-bio interface. International Journal of Nanomedicine, 2018, Volume 13, 4523-4536.	6.7	7

#	ARTICLE	IF	CITATIONS
55	Potential of Matrix Metalloproteinase Inhibitors for the Treatment of Local Tissue Damage Induced by a Type P-I Snake Venom Metalloproteinase. <i>Toxins</i> , 2020, 12, 8.	3.4	7
56	Beta-1,3 Oligoglucans Specifically Bind to Immune Receptor CD28 and May Enhance T Cell Activation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3124.	4.1	6
57	Urea-Modified Self-Assembling Peptide Amphiphiles That Form Well-Defined Nanostructures and Hydrogels for Biomedical Applications. <i>ACS Applied Bio Materials</i> , 2022, 5, 4599-4610.	4.6	6
58	Interactions between Triterpenes and a P-I Type Snake Venom Metalloproteinase: Molecular Simulations and Experiments. <i>Toxins</i> , 2018, 10, 397.	3.4	5
59	A Structural Model of the Inactivation Gate of Voltage-Activated Potassium Channels. <i>Biophysical Journal</i> , 2019, 117, 377-387.	0.5	5
60	Oral Administration of Water Extract from <i>Euglena gracilis</i> Alters the Intestinal Microbiota and Prevents Lung Carcinoma Growth in Mice. <i>Nutrients</i> , 2022, 14, 678.	4.1	5
61	Study of specific interactions in inclusion complexes of amine-terminated PAMAM dendrimer/flavonoids by experimental and computational methods. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017, 66, 485-494.	3.4	4
62	Chasing a Protein's Tail: Detection of Polypeptide Translocation through Nanopores. <i>Biophysical Journal</i> , 2018, 114, 759-760.	0.5	4
63	Organic contaminants and atmospheric nitrogen at the graphene-water interface: a simulation study. <i>Nanoscale Advances</i> , 2022, 4, 1741-1757.	4.6	4
64	Understanding the Interaction between Biomolecules and Silver Nanoparticles. <i>Biophysical Journal</i> , 2016, 110, 341a.	0.5	3
65	Structural Determinants of the Dopamine Transporter Regulation Mediated by G Proteins. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 3577-3586.	5.4	2
66	Local immune checkpoint blockade therapy by an adenovirus encoding a novel PD-L1 inhibitory peptide inhibits the growth of colon carcinoma in immunocompetent mice. <i>Translational Oncology</i> , 2022, 16, 101337.	3.7	1
67	A Water Extract from <i>Chlorella sorokiniana</i> Cell Walls Stimulates Growth of Bone Marrow Cells and Splenocytes. <i>Nutrients</i> , 2022, 14, 2901.	4.1	1
68	Is Sodium Monocarboxylate Transporter (SMCT1) A Protein Involved in the Apical Iodide Transport?. <i>Biophysical Journal</i> , 2016, 110, 139a.	0.5	0
69	Molecular Dynamics Simulations of Membrane Translocation of Dendrimers. <i>Biophysical Journal</i> , 2016, 110, 571a.	0.5	0
70	Computational modeling of the adsorption of capping agent biomolecules to inorganic nanoparticles. , 2019, , 21-41.		0
71	Extraction of Chlorobenzenes and PCBs from Water by ZnO Nanoparticles. <i>Processes</i> , 2021, 9, 1764.	2.8	0