

Jeremy Pencer

List of Publications by Year in descending order

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47
papers

2,032
citations

331670

21
h-index

243625

44
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49
all docs

49
docs citations

49
times ranked

2405
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipid Bilayer Structure Determined by the Simultaneous Analysis of Neutron and X-Ray Scattering Data. <i>Biophysical Journal</i> , 2008, 95, 2356-2367.	0.5	518
2	Curvature Effect on the Structure of Phospholipid Bilayers. <i>Langmuir</i> , 2007, 23, 1292-1299.	3.5	124
3	â€œBicellarâ€•Lipid Mixtures as used in Biochemical and Biophysical Studies. <i>Die Naturwissenschaften</i> , 2005, 92, 355-366.	1.6	117
4	Osmotically Induced Shape Changes of Large Unilamellar Vesicles Measured by Dynamic Light Scattering. <i>Biophysical Journal</i> , 2001, 81, 2716-2728.	0.5	100
5	Effects of Vesicle Size and Shape on Static and Dynamic Light Scattering Measurements. <i>Langmuir</i> , 2003, 19, 7488-7497.	3.5	95
6	Bilayer thickness and thermal response of dimyristoylphosphatidylcholine unilamellar vesicles containing cholesterol, ergosterol and lanosterol: A small-angle neutron scattering study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1720, 84-91.	2.6	92
7	Detection of submicron-sized raft-like domains in membranes by small-angle neutron scattering. <i>European Physical Journal E</i> , 2005, 18, 447-458.	1.6	91
8	Influence of cholesterol on the bilayer properties of monounsaturated phosphatidylcholine unilamellar vesicles. <i>European Physical Journal E</i> , 2007, 23, 247-254.	1.6	87
9	Effect of Cations on the Structure of Bilayers Formed by Lipopolysaccharides Isolated from <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8057-8062.	2.6	82
10	Spontaneously Formed Unilamellar Vesicles with Path-Dependent Size Distribution. <i>Langmuir</i> , 2005, 21, 6656-6661.	3.5	66
11	Method of separated form factors for polydisperse vesicles. <i>Journal of Applied Crystallography</i> , 2006, 39, 293-303.	4.5	59
12	Optical changes in unilamellar vesicles experiencing osmotic stress. <i>Biophysical Journal</i> , 1996, 71, 2701-2715.	0.5	58
13	What determines the thickness of a biological membrane. <i>General Physiology and Biophysics</i> , 2009, 28, 117-125.	0.9	47
14	The study of liposomes, lamellae and membranes using neutrons and X-rays. <i>Current Opinion in Colloid and Interface Science</i> , 2007, 12, 17-22.	7.4	41
15	Small-angle neutron scattering from large unilamellar vesicles: An improved method for membrane thickness determination. <i>Physical Review E</i> , 2000, 61, 3003-3008.	2.1	38
16	Characterization of anisotropic poly(vinyl alcohol) hydrogel by small- and ultra-small-angle neutron scattering. <i>Journal of Chemical Physics</i> , 2009, 130, 034903.	3.0	29
17	Comparison of Solution Structures and Stabilities of Native, Partially Unfolded and Partially Refolded Pepsin. <i>Biochemistry</i> , 2006, 45, 13982-13992.	2.5	28
18	Small-Angle Neutron Scattering to Detect Rafts and Lipid Domains. <i>Methods in Molecular Biology</i> , 2007, 398, 231-244.	0.9	27

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19	Scattering from laterally heterogeneous vesicles. II. The form factor. Journal of Applied Crystallography, 2007, 40, 513-525.	4.5	25
20	Interaction of the full-length Bax protein with biomimetic mitochondrial liposomes: A small-angle neutron scattering and fluorescence study. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 384-401.	2.6	24
21	Atomistic simulations and experimental measurements of helium nano-bubbles in nickel. Journal of Nuclear Materials, 2017, 495, 475-483.	2.7	23
22	Molecular dynamics study of the role of symmetric tilt grain boundaries on the helium distribution in nickel. Journal of Nuclear Materials, 2018, 502, 86-94.	2.7	23
23	Atomistic simulation study of the hydrogen diffusion in nickel. Computational Materials Science, 2018, 152, 374-380.	3.0	22
24	Scattering from laterally heterogeneous vesicles. I. Model-independent analysis. Journal of Applied Crystallography, 2006, 39, 791-796.	4.5	21
25	The influence of curvature on membrane domains. European Biophysics Journal, 2008, 37, 665-671.	2.2	20
26	Density functional theory-based derivation of an interatomic pair potential for helium impurities in nickel. Journal of Nuclear Materials, 2016, 479, 240-248.	2.7	20
27	Molecular dynamics study of hydrogen-vacancy interactions in δ -zirconium. Journal of Nuclear Materials, 2018, 511, 341-352.	2.7	16
28	Atomistic simulation study of the helium effects on the deformation behavior in nickel bicrystals. Journal of Nuclear Materials, 2019, 516, 247-254.	2.7	15
29	A comparative analysis of the phonon properties in UO ₂ using the Boltzmann transport equation coupled with DFT+U and empirical potentials. Computational Materials Science, 2020, 177, 109594.	3.0	15
30	A CANADIAN PERSPECTIVE ON PROGRESS IN THORIA FUEL SCIENCE AND TECHNOLOGY. CNL Nuclear Review, 0, , 1-17.	0.6	14
31	Spontaneously Forming Ellipsoidal Phospholipid Unilamellar Vesicles and Their Interactions with Helical Domains of Saposin C. Langmuir, 2006, 22, 11028-11033.	3.5	13
32	The Supersafe A^{SM} Reactor: A Small Modular Pressure Tube SCWR. AECL Nuclear Review, 2012, 1, 13-18.	0.1	10
33	Nuclear data sensitivity and uncertainty for the Canadian supercritical water-cooled reactor. Annals of Nuclear Energy, 2014, 63, 587-593.	1.8	9
34	Molecular dynamics modelling of the thermal conductivity of off-stoichiometric UO _{2-x} and (U _y Pu _{1-y})O _{2-x} using equilibrium molecular dynamics. Annals of Nuclear Energy, 2019, 131, 317-324.	1.8	9
35	Development of a Polarizable Interatomic Potential for Molten Lithium, Sodium, and Potassium Nitrate. Journal of Physical Chemistry B, 2020, 124, 4751-4761.	2.6	9
36	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si105.svg"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi mathvariant="italic"} \rangle \text{DFT} \langle \text{mml:mo linebreak="badbreak"} \rangle + \langle \text{mml:mo} \langle \text{mml:mi} \rangle \text{U} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ approach on the electronic and thermal properties of hypostoichiometric $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si106.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{UO} \langle \text{mml:mi}$	1.8	8

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37	Scattering from laterally heterogeneous vesicles. III. Reconciling past and present work. Journal of Applied Crystallography, 2007, 40, 771-772.	4.5	7
38	Domains on a Sphere: Neutron Scattering, Models, and Mathematical Formalism. Chemistry and Physics of Lipids, 2019, 222, 47-50.	3.2	7
39	Intersecting polymers in lipid bilayers: cliques, static order parameters and lateral diffusion. Biochimica Et Biophysica Acta - Biomembranes, 1993, 1150, 189-198.	2.6	5
40	Nuclear data sensitivity and uncertainty for the Canadian supercritical water-cooled reactor II: Full core analysis. Annals of Nuclear Energy, 2015, 75, 635-644.	1.8	5
41	Applicability of 2NN-MEAM potentials in the prediction of temperature and oxygen-dependent elastic properties of titanium. Computational Materials Science, 2016, 125, 110-116.	3.0	4
42	Finite-size effects in biomimetic smectic films. Physical Review E, 2004, 70, 062902.	2.1	3
43	Implications of alpha-decay for long term storage of advanced heavy water reactor fuels. Annals of Nuclear Energy, 2017, 110, 400-405.	1.8	2
44	Methodology to Design Simulated Irradiated Fuel by Maximizing Integral Indices (ck, E, G). Journal of Nuclear Engineering and Radiation Science, 2016, 2, .	0.4	1
45	COMPARISON OF DPA AND HELIUM PRODUCTION IN CANDIDATE FUEL CLADDING MATERIALS FOR THE CANADIAN SCWR. CNL Nuclear Review, 0, , 1-7.	0.6	1
46	Erratum, for "The Supersafe ^Å Reactor: A Small Modular Pressure Tube SCWR" AECL Nuclear Review, 2013, 2, 119-119.	0.1	0
47	A SOLID MODERATOR PHYSICS ASSESSMENT FOR THE CANADIAN SCWR. CNL Nuclear Review, 0, , 1-8.	0.6	0