Victor V Volkov

List of Publications by Year in descending order

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VICTOR V VOLKOV

#	Article	IF	CITATIONS
1	Ethanol electro-oxidation reaction on the Pd(111) surface in alkaline media: insights from quantum and molecular mechanics. Physical Chemistry Chemical Physics, 2022, , .	2.8	2
2	Fungal pigments on paper: Raman and quantum chemistry studies of Alternaria Sp. Dyes and Pigments, 2021, 195, 109719.	3.7	5
3	Anchoring of a hydrophobic heptapeptide (AFILPTG) on silica facilitates peptide unfolding at the abiotic–biotic interface. Physical Chemistry Chemical Physics, 2021, 23, 18001-18011.	2.8	0
4	Mapping blood biochemistry by Raman spectroscopy at the cellular level. Chemical Science, 2021, 13, 133-140.	7.4	5
5	Indigo chromophores and pigments: Structure and dynamics. Dyes and Pigments, 2020, 172, 107761.	3.7	28
6	Polariton condensation and surface enhanced Raman in spherical ZnO microcrystals. Nature Communications, 2020, 11, 4908.	12.8	7
7	The structural and electronic properties of 3,3′-azothiophene photo-switching systems. Physical Chemistry Chemical Physics, 2019, 21, 1344-1353.	2.8	17
8	From phage display to structure: an interplay of enthalpy and entropy in the binding of the LDHSLHS polypeptide to silica. Physical Chemistry Chemical Physics, 2019, 21, 4663-4672.	2.8	9
9	Distributions of Silica and Biopolymer Structural Components in the Spore Elater of Equisetum arvense, an Ancient Silicifying Plant. Frontiers in Plant Science, 2019, 10, 210.	3.6	6
10	Do Material Discontinuities in Silica Affect Vibration Modes?. Journal of Physical Chemistry A, 2018, 122, 4997-5003.	2.5	3
11	Correspondence between light-absorption spectrum and nonequilibrium work distribution as a mean to access free energy differences between electronic states. Journal of Chemical Physics, 2018, 149, 084101.	3.0	0
12	Binding Free Energies of Host–Guest Systems by Nonequilibrium Alchemical Simulations with Constrained Dynamics: Theoretical Framework. Journal of Chemical Theory and Computation, 2017, 13, 5874-5886.	5.3	14
13	Binding Free Energies of Host–Guest Systems by Nonequilibrium Alchemical Simulations with Constrained Dynamics: Illustrative Calculations and Numerical Validation. Journal of Chemical Theory and Computation, 2017, 13, 5887-5899.	5.3	14
14	Resolving capacity of infrared–visible sum frequency generation microscopy to address discrete structural realizations of a protein at interface. Journal of Raman Spectroscopy, 2016, 47, 828-838.	2.5	1
15	Nonequilibrium work theorems applied to transitions between configurational domains. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 123204.	2.3	3
16	Modeling of Infrared–Visible Sum Frequency Generation Microscopy Images of a Giant Liposome. Microscopy and Microanalysis, 2016, 22, 1128-1145.	0.4	2
17	Polarization entanglement of sum-frequency photons: A tool to probe the Markovian limit. Physical Review A, 2015, 91, .	2.5	0
18	Sum frequency generation image reconstruction: Aliphatic membrane under spherical cap geometry. Journal of Chemical Physics, 2014, 141, 134121.	3.0	4

VICTOR V VOLKOV

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19	Sum-frequency generation echo and grating from interface. Journal of Chemical Physics, 2014, 141, 144103.	3.0	2
20	Tip-induced deformation of a phospholipid bilayer: Theoretical perspective of sum frequency generation imaging. Journal of Chemical Physics, 2014, 141, 154201.	3.0	3
21	Structural analysis of neutral tetracycline using anharmonicity of delocalized vibrations. Physical Chemistry Chemical Physics, 2014, 16, 5655.	2.8	0
22	Structural Properties of gp41 Fusion Peptide at a Model Membrane Interface. Journal of Physical Chemistry B, 2013, 117, 15527-15535.	2.6	15
23	Excitonic effects in two-dimensional vibrational spectra of liquid formamide. Physical Chemistry Chemical Physics, 2011, 13, 11351.	2.8	5
24	Structural Properties of a Membrane Associated Anchor Dipeptide. Journal of Physical Chemistry B, 2011, 115, 5294-5303.	2.6	12
25	Two-dimensional infrared spectroscopy of a structured liquid: Neat formamide. Journal of Chemical Physics, 2009, 130, 204518.	3.0	11
26	What are the Sites Water Occupies at the Interface of a Phospholipid Membrane?. Journal of Physical Chemistry B, 2009, 113, 4119-4124.	2.6	26
27	Partitioning of an Anchor Dipeptide in a Phospholipid Membrane. Journal of Physical Chemistry B, 2009, 113, 16246-16250.	2.6	1
28	Hydration of phospholipid interface: carbonyl–water hydrogen bond association. Physical Chemistry Chemical Physics, 2009, 11, 9979.	2.8	8
29	Retrieval of spectral and dynamic properties from twoâ€dimensional infrared pumpâ€probe experiments. Journal of Computational Chemistry, 2008, 29, 1507-1516.	3.3	9
30	Electrostatic interactions in phospholipid membranes revealed by coherent 2D IR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15323-15327.	7.1	32
31	Distinct Water Species Confined at the Interface of a Phospholipid Membrane. Physical Review Letters, 2007, 99, 078302.	7.8	74
32	2P271 INTERMOLECULAR RELATIONS AND HYDROGEN BOND DYNAMICS AT PHOSPHOLIPID MEMBRANE INTERFACE(Native and artificial biomembranes,Oral Presentations). Seibutsu Butsuri, 2007, 47, S180.	0.1	0
33	Heterogeneity of Water at the Phospholipid Membrane Interface. Journal of Physical Chemistry B, 2007, 111, 1377-1383.	2.6	71
34	Domain Formation in Lipid Bilayers Probed by Two-Dimensional Infrared Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 1499-1501.	2.6	19
35	Hydration and Hydrogen Bonding of Carbonyls in Dimyristoyl-Phosphatidylcholine Bilayer. Journal of the American Chemical Society, 2006, 128, 9466-9471.	13.7	34
36	1P216 Two-dimensional Infrared Spectroscopy and Molecular Dynamics of Liquid Formamide. Seibutsu Butsuri, 2005, 45, S85.	0.1	2

VICTOR V VOLKOV

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37	1P215 Domain formation in lipid bilayer probed in two-dimensional infrared ultrafast experiment. Seibutsu Butsuri, 2005, 45, S85.	0.1	0
38	Active phase stabilization in Fourier-transform two-dimensional infrared spectroscopy. Optics Letters, 2005, 30, 2010.	3.3	76
39	Cotton Effect in Copper-Proline Complexes in the Visible Region. Journal of Chemical Education, 2005, 82, 1663.	2.3	3
40	Size-Dependent Optical Properties of Polydiacetylene Nanocrystal. Journal of Physical Chemistry B, 2004, 108, 7674-7680.	2.6	82
41	A Two-Dimensional Infrared Study of Localization, Structure, and Dynamics of a Dipeptide in Membrane Environment. Biophysical Journal, 2004, 87, 4213-4225.	0.5	35
42	Carrier recombination in clusters of NiO. Chemical Physics Letters, 2001, 337, 117-124.	2.6	55
43	The relaxation dynamics of the excited electronic states of retinal in bacteriorhodopsin by two-pump-probe femtosecond studies. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 8475-8479.	7.1	68
44	Surface modification on time-resolved fluorescences of Fe2O3 nanocrystals. Journal of Physics and Chemistry of Solids, 2000, 61, 757-764.	4.0	51
45	The `lightning' gold nanorods: fluorescence enhancement of over a million compared to the gold metal. Chemical Physics Letters, 2000, 317, 517-523.	2.6	767
46	Low temperature optical properties of amorphous oxide nanoclusters in polymethyl methacrylate matrix. Chinese Physics B, 2000, 9, 767-773.	1.3	1
47	Optical Properties of Amorphous ZnO, CdO, and PbO Nanoclusters in Solution. Chemistry of Materials, 1999, 11, 3037-3043.	6.7	116
48	Optical rotation of the second harmonic radiation from retinal in bacteriorhodopsin monomers in Langmuir-Blodgett film: evidence for nonplanar retinal structure. Biophysical Journal, 1997, 73, 3164-3170.	0.5	17
49	ZnO Nanogold Doping: A Bioinorganic Paradigm for Sensing and Optical Security Applications. ACS Applied Nano Materials, 0, , .	5.0	1