

Tatyana I Smirnova

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,310
citations

361296

20
h-index

345118

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57
all docs

57
docs citations

57
times ranked

1893
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrative structural dynamics probing of the conformational heterogeneity in synaptosomal-associated protein 25. <i>Cell Reports Physical Science</i> , 2021, 2, 100616.	2.8	9
2	Alternative Reactivity of Leucine 5-Hydroxylase Using an Olefin-Containing Substrate to Construct a Substituted Piperidine Ring. <i>Biochemistry</i> , 2020, 59, 1961-1965.	1.2	6
3	Effect of Silica Support on Electrostatics of Lipid Interfaces in Nano-Bio Hybrid Systems. <i>Biophysical Journal</i> , 2019, 116, 81a.	0.2	0
4	EPR studies of bionanomaterials. <i>Experimental Methods in the Physical Sciences</i> , 2019, 50, 129-159.	0.1	0
5	Spontaneous Switching among Conformational Ensembles in Intrinsically Disordered Proteins. <i>Biomolecules</i> , 2019, 9, 114.	1.8	41
6	Dielectric and Electrostatic Properties of the Silica Nanoparticle-Water Interface by EPR of pH-Sensitive Spin Probes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29972-29985.	1.5	7
7	Elucidating the Reaction Pathway of Decarboxylation-Assisted Olefination Catalyzed by a Mononuclear Non-Heme Iron Enzyme. <i>Journal of the American Chemical Society</i> , 2018, 140, 15190-15193.	6.6	30
8	Using Hyscore Spectroscopy of Nitroxides to Profile Water Content of Lipid Bilayers with 2 Å... Spatial Resolution. <i>Biophysical Journal</i> , 2018, 114, 16a.	0.2	0
9	Silica-Supported Lipid Bilayers: Electrostatic Effects at Lipid Interfaces as Reported by Spin-Labeling EPR. <i>Biophysical Journal</i> , 2018, 114, 96a.	0.2	2
10	Oligomeric Structure of Anabaena Sensory Rhodopsin in a Lipid Bilayer Environment by Combining Solid-State NMR and Long-range DEER Constraints. <i>Journal of Molecular Biology</i> , 2017, 429, 1903-1920.	2.0	47
11	Glycol Chitosan Engineered Autoregenerative Antioxidant Significantly Attenuates Pathological Damages in Models of Age-Related Macular Degeneration. <i>ACS Nano</i> , 2017, 11, 4669-4685.	7.3	61
12	Oxidation of pyrrole by dehaloperoxidase-hemoglobin: chemoenzymatic synthesis of pyrrolin-2-ones. <i>Catalysis Science and Technology</i> , 2017, 7, 3104-3118.	2.1	20
13	Effects of Silica Support on Dynamics of Transmembrane Peptides and Effective p K a of Ionisable Sidechains. <i>Biophysical Journal</i> , 2017, 112, 175a.	0.2	0
14	smFRET and DEER Distance Measurements as Applied to Disordered and Structured Proteins. <i>Biophysical Journal</i> , 2016, 110, 559a.	0.2	2
15	Synthesis of New Mixed-Metal Ammonium Vanadates: Cation Order versus Disorder, and Optical and Photocatalytic Properties. <i>Crystal Growth and Design</i> , 2016, 16, 5762-5770.	1.4	1
16	The Hydroxyl Radical is a Critical Intermediate in the Voltammetric Detection of Hydrogen Peroxide. <i>Journal of the American Chemical Society</i> , 2016, 138, 2516-2519.	6.6	77
17	Determining Oligomeric Order of a Membrane Protein by Double Electron-Electron Resonance Spectroscopy. <i>Biophysical Journal</i> , 2015, 108, 93a.	0.2	0
18	“Snorkeling” of the Charged Sidechain of a Transmembrane Peptide as Directly Observed by Double Electron-Electron Resonance Experiment. <i>Biophysical Journal</i> , 2015, 108, 203a.	0.2	0

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19	Peptide-Membrane Interactions by Spin-Labeling EPR. <i>Methods in Enzymology</i> , 2015, 564, 219-258.	0.4	13
20	Ferromagnetic coupling in d1-d3 linear oxido-bridged heterometallic complexes: ground-state models of metal-to-metal charge transfer excited states. <i>Dalton Transactions</i> , 2015, 44, 18937-18944.	1.6	8
21	Manganese-Vanadate Hybrids: Impact of Organic Ligands on Their Structures, Thermal Stabilities, Optical Properties, and Photocatalytic Activities. <i>Inorganic Chemistry</i> , 2015, 54, 7388-7401.	1.9	16
22	Copper-Organic/Octamolybdates: Structures, Bandgap Sizes, and Photocatalytic Activities. <i>Inorganic Chemistry</i> , 2014, 53, 3464-3470.	1.9	35
23	Identification of free radicals in pyrolysis oil and their impact on bio-oil stability. <i>RSC Advances</i> , 2014, 4, 29840-29846.	1.7	26
24	Profiling the Dielectric Constant at the Membrane-Peptide Interface using Ionizable EPR Probes. <i>Biophysical Journal</i> , 2014, 106, 508a.	0.2	0
25	Structure, Dynamics, and Electrostatic Effects on Membrane Binding of Nod Peptides. <i>Biophysical Journal</i> , 2014, 106, 295a.	0.2	0
26	Molecular pH Probes at a Protein-Lipid Interface: Assessment of Local Dielectric Environment for Transmembrane Peptide. <i>Biophysical Journal</i> , 2013, 104, 373a.	0.2	0
27	Isoprenoid Biosynthesis: Ferraoxetane or Allyl Anion Mechanism for IspH Catalysis?. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6522-6525.	7.2	17
28	Tyrosyl Radicals in Dehaloperoxidase. <i>Journal of Biological Chemistry</i> , 2013, 288, 33470-33482.	1.6	25
29	The UDP-diacylglucosamine Pyrophosphohydrolase LpxH in Lipid A Biosynthesis Utilizes Mn ²⁺ Cluster for Catalysis. <i>Journal of Biological Chemistry</i> , 2013, 288, 26987-27001.	1.6	16
30	Isoprenoid Biosynthesis: Ferraoxetane or Allyl Anion Mechanism for IspH Catalysis?. <i>Angewandte Chemie</i> , 2013, 125, 6650-6653.	1.6	4
31	Probing Dielectric and Hydrogen Bonding Gradients in Biological Membranes. <i>Biophysical Journal</i> , 2012, 102, 414a.	0.2	0
32	Pyridine Inhibitor Binding to the 4Fe-4S ProteinA. aeolicusIspH (LytB): A HYSCORE Investigation. <i>Journal of the American Chemical Society</i> , 2011, 133, 6525-6528.	6.6	35
33	An ENDOR and HYSCORE Investigation of a Reaction Intermediate in IspG (GcpE) Catalysis. <i>Journal of the American Chemical Society</i> , 2011, 133, 8400-8403.	6.6	33
34	Role of Electrostatic and Hydrogen Bonding Environment in Sequestering Lipids from Membranes Into the Sec14 Protein Cavity. <i>Biophysical Journal</i> , 2011, 100, 552a-553a.	0.2	0
35	Surface-Mediated Production of Hydroxyl Radicals as a Mechanism of Iron Oxide Nanoparticle Biototoxicity. <i>Journal of the American Chemical Society</i> , 2011, 133, 35-41.	6.6	310
36	Resurrection of a functional phosphatidylinositol transfer protein from a pseudo-Sec14 scaffold by directed evolution. <i>Molecular Biology of the Cell</i> , 2011, 22, 892-905.	0.9	31

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37	Heterogeneous Dielectric and Hydrogen Bonding Environment of Transmembrane Peptides. <i>Biophysical Journal</i> , 2010, 98, 87a.	0.2	1
38	Spectroscopic and Mechanistic Investigations of Dehaloperoxidase B from <i>Amphitrite ornata</i> . <i>Biochemistry</i> , 2010, 49, 6600-6616.	1.2	49
39	Characterization of Dehaloperoxidase Compound ES and Its Reactivity with Trihalophenols. <i>Biochemistry</i> , 2009, 48, 995-1005.	1.2	58
40	Membrane insertion of peptides mimicking E2 domain of Sindbis virus is modulated by cholesterol. <i>Biophysical Journal</i> , 2009, 96, 389a-390a.	0.2	0
41	Substrate binding triggers a switch in the iron coordination in dehaloperoxidase from <i>Amphitrite Ornate</i> . <i>Biophysical Journal</i> , 2009, 96, 437a.	0.2	0
42	Spectroscopic Probes of the Reactive Intermediates of Dehaloperoxidase from <i>Amphitrite ornata</i> . <i>Biophysical Journal</i> , 2009, 96, 437a.	0.2	1
43	Characterization of magnetic and electronic properties of trimetallic nitride endohedral fullerenes by SQUID magnetometry and electron paramagnetic resonance. <i>Chemical Physics Letters</i> , 2008, 453, 233-237.	1.2	15
44	Substrate Binding Triggers a Switch in the Iron Coordination in Dehaloperoxidase from <i>Amphitrite ornata</i> : HYSCORE Experiments. <i>Journal of the American Chemical Society</i> , 2008, 130, 2128-2129.	6.6	31
45	Geometry of Hydrogen Bonds Formed by Lipid Bilayer Nitroxide Probes: A High-Frequency Pulsed ENDOR/EPR Study. <i>Journal of the American Chemical Society</i> , 2007, 129, 3476-3477.	6.6	32
46	Local Polarity and Hydrogen Bonding Inside the Sec14p Phospholipid-Binding Cavity: High-Field Multi-Frequency Electron Paramagnetic Resonance Studies. <i>Biophysical Journal</i> , 2007, 92, 3686-3695.	0.2	53
47	High-Field ESR Spectroscopy in Membrane and Protein Biophysics. , 2007, , 165-251.		6
48	The Chemistry of Phospholipid Binding by the <i>Saccharomyces cerevisiae</i> Phosphatidylinositol Transfer Protein Sec14p as Determined by EPR Spectroscopy. <i>Journal of Biological Chemistry</i> , 2006, 281, 34897-34908.	1.6	19
49	Cryogen-free superconducting magnet system for multifrequency electron paramagnetic resonance up to 12.1T. <i>Review of Scientific Instruments</i> , 2006, 77, 035108.	0.6	16
50	Convolution-Based Algorithm: from Analysis of Rotational Dynamics to EPR Oximetry and Protein Distance Measurements. <i>Biological Magnetic Resonance</i> , 2004, , 277-348.	0.4	8
51	Dynamic Molecular Oxygen Accessibility to a Buried Mn ²⁺ Protein Site: A High-Field EPR Experiment. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7212-7215.	1.2	8
52	Lipid Magnetic Resonance Imaging Contrast Agent Interactions: A Spin-Labeling and a Multifrequency EPR Study. <i>Journal of the American Chemical Society</i> , 1998, 120, 5060-5072.	6.6	38
53	Single-Crystal Multifrequency EPR Evidence for a Quasi-Low-Dimensional Spin Exchange in 3-n-Butyl-2,4,6-Triphenylverdazyl. <i>Journal of Physical Chemistry B</i> , 1997, 101, 11249-11253.	1.2	10
54	Accuracy of Oxygen Measurements in T ₂ (Line Width) EPR Oximetry. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 801-810.	1.9	38

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55	W-Band (95 GHz) EPR Spectroscopy of Nitroxide Radicals with Complex Proton Hyperfine Structure: Fast Motion. <i>The Journal of Physical Chemistry</i> , 1995, 99, 9008-9016.	2.9	42
56	Half-field EPR transitions in synthetic carbohydrate chars. <i>Solid State Communications</i> , 1994, 91, 319-323.	0.9	9
57	EPR Oximetry with Nitroxides: Effects of Molecular Structure, pH, and Electrolyte Concentration. <i>Applied Magnetic Resonance</i> , 0, , .	0.6	4