Vasily Oganesyan

List of Publications by Year in descending order

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44	893	430442	500791
papers	citations	18 h-index	28 g-index

46	46	46	1030
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular electrometer and binding of cations to phospholipid bilayers. Physical Chemistry Chemical Physics, 2016, 18, 32560-32569.	1.3	78
2	A novel, general method of analyzing magnetic circular dichroism spectra and magnetization curves of high-spin metal ions: Application to the protein oxidized rubredoxin,Desulfovibrio gigas. Journal of Chemical Physics, 1999, 110, 762-777.	1.2	77
3	Optical Detection of Spin Polarization in Single-Molecule Magnets [Mn12O12(O2CR)16(H2O)4]. Journal of the American Chemical Society, 2002, 124, 9219-9228.	6.6	69
4	The Nature of the Exchange Coupling between High-Spin Fe(III) Hemeo3and CuB(II) inEscherichiacoliQuinol Oxidase, Cytochromebo3:Â MCD and EPR Studies. Journal of the American Chemical Society, 2004, 126, 4157-4166.	6.6	49
5	A general approach for prediction of motional EPR spectra from Molecular Dynamics (MD) simulations: application to spin labelled protein. Physical Chemistry Chemical Physics, 2011, 13, 4724.	1.3	43
6	Characterisation of [Cu4S], the catalytic site in nitrous oxide reductase, by EPR spectroscopyElectronic supplementary information (ESI) available: Listings of the coordinates used for the calculations; comparison of the results from restricted and unrestricted DFT calculations; schematic structure of a model CuZ. See http://www.rsc.org/suppdata/dt/b3/b313913a/. Dalton Transactions, 2004, , 996.	1.6	40
7	A novel approach to the simulation of nitroxide spin label EPR spectra from a single truncated dynamical trajectory. Journal of Magnetic Resonance, 2007, 188, 196-205.	1.2	35
8	Molecular dynamics and EPR spectroscopic studies of 8CB liquid crystal. Soft Matter, 2012, 8, 6823.	1.2	34
9	Nitrosylation of Nitricâ€Oxideâ€Sensing Regulatory Proteins Containing [4Feâ€4S] Clusters Gives Rise to Multiple Ironâ€“Nitrosyl Complexes. Angewandte Chemie - International Edition, 2016, 55, 14575-14579.	7.2	33
10	Nature of the Coupling between the High-Spin Fe(III) Heme and CuB(II) in the Active Site of Terminal Oxidases:Â Dual-Mode EPR Spectra of Fluoride Cytochromebo3. Journal of the American Chemical Society, 1998, 120, 4232-4233.	6.6	32
11	Magnetic circular dichroism of symmetry and spin forbidden transitions of high-spin metal ions. Journal of Chemical Physics, 2000, 113, 5003.	1.2	28
12	Thermoelectric Enhancement in Single Organic Radical Molecules. Nano Letters, 2022, 22, 948-953.	4.5	28
13	Enantiopure Ferroceneâ€Based Planarâ€Chiral Iridacycles: Stereospecific Control of Iridiumâ€Centred Chirality. Chemistry - A European Journal, 2016, 22, 3065-3072.	1.7	26
14	Magnetic circular dichroism spectroscopy as a probe of the structures of the metal sites in metalloproteins. Current Opinion in Structural Biology, 2010, 20, 615-622.	2.6	22
15	Analysis of nitroxide spin label motion in a proteinâ€“protein complex using multiple frequency EPR spectroscopy. Journal of Magnetic Resonance, 2007, 185, 191-203.	1.2	21
16	Electron Paramagnetic Resonance Spectra Simulation Directly from Molecular Dynamics Trajectories of a Liquid Crystal with a Doped Paramagnetic Spin Probe. Physical Review Letters, 2009, 102, 013005.	2.9	20
17	Antimicrobial action of the cationic peptide, chrysophsin-3: a coarse-grained molecular dynamics study. Soft Matter, 2018, 14, 2796-2807.	1.2	19
18	A 4-term energy level scheme for the high-spin ferrous hemoproteins: Evidence for the 5En and 5B2 terms as the ground multiplets in hemoproteins with a histidine and a cysteine protein-derived heme ligand, respectively. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 433-449.	2.0	18

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19	Prediction of EPR Spectra of Liquid Crystals with Doped Spin Probes from Fully Atomistic Molecular Dynamics Simulations: Exploring Molecular Order and Dynamics at the Phase Transition. Chemistry - A European Journal, 2010, 16, 11558-11562.	1.7	18
20	Activation of the Cytochrome cd1 Nitrite Reductase from Paracoccus pantotrophus. Journal of Biological Chemistry, 2007, 282, 28207-28215.	1.6	15
21	Prediction of nitroxide spin labelEPR spectra from MD trajectories: application to myoglobin. Faraday Discussions, 2011, 148, 283-298.	1.6	15
22	Single-crystal parallel-mode EPR spectroscopy of anS=6ground-state transition-metal cluster. Physical Review B, 2004, 69, .	1.1	14
23	A combined EPR and MD simulation study of a nitroxyl spin label with restricted internal mobility sensitive to protein dynamics. Journal of Magnetic Resonance, 2017, 274, 24-35.	1.2	13
24	Angular Dependences of Perpendicular and Parallel Mode Electron Paramagnetic Resonance of Oxidized Beef Heart Cytochrome c Oxidase. Biophysical Journal, 2000, 78, 439-450.	0.2	12
25	DEER and RIDME Measurements of the Nitroxide-Spin Labelled Copper-Bound Amine Oxidase Homodimer from Arthrobacter Globiformis. Applied Magnetic Resonance, 2021, 52, 995-1015.	0.6	11
26	Nuclear inelastic scattering spectroscopy of ironâ€“sulfur cubane compounds. Chemical Communications, 2004, , 214-215.	2.2	10
27	An EPR Spin Label Study of the Quinol Oxidase, E. coli Cytochrome bo3:â€‰ A Search for Redox Induced Conformational Changes. Biochemistry, 2007, 46, 2355-2363.	1.2	10
28	Magnetic Circular Dichroism Evidence for a Weakly Coupled Heme-Radical Pair at the Active Site of Cytochrome cd₁, a Nitrite Reductase. Inorganic Chemistry, 2007, 46, 10950-10952.	1.9	10
29	EPR spectroscopy and molecular dynamics modelling: a combined approach to study liquid crystals. Liquid Crystals, 2018, 45, 2139-2157.	0.9	10
30	Enantiopure Planar Chiral and Chiral-at-Metal Iridacycles Derived from Bulky Cobalt Sandwich Complexes. Organometallics, 2018, 37, 4204-4212.	1.1	9
31	Direct Prediction of EPR Spectra from Lipid Bilayers: Understanding Structure and Dynamics in Biological Membranes. ChemPhysChem, 2018, 19, 2183-2193.	1.0	9
32	Prediction of EPR Spectra of Lyotropic Liquid Crystals using a Combination of Molecular Dynamics Simulations and the Modelâ€Free Approach. Chemistry - A European Journal, 2017, 23, 13192-13204.	1.7	9
33	All-atom molecular dynamics simulations of spin labelled double and single-strand DNA for EPR studies. Physical Chemistry Chemical Physics, 2018, 20, 13461-13472.	1.3	8
34	Probing Columnar Discotic Liquid Crystals by EPR Spectroscopy with a Rigidâ€Core Nitroxide Spin Probe. Angewandte Chemie - International Edition, 2013, 52, 8917-8920.	7.2	7
35	Muonium Chemistry at Diiron Subsite Analogues of [FeFe]â€Hydrogenase. Angewandte Chemie - International Edition, 2016, 55, 14580-14583.	7.2	7
36	Nitroxide spin labels as EPR reporters of the relaxation and magnetic properties of the hemeâ€“copper site in cytochrome bo 3, E. coli. Journal of Biological Inorganic Chemistry, 2010, 15, 1255-1264.	1.1	6

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37	Nuclear inelastic scattering spectroscopy of tris(acetylacetonate)iron(III); A vibrational probe via the iron atom. Chemical Physics Letters, 2011, 518, 119-123.	1.2	6
38	Cobalt-based molecular electrocatalysis of nitrile reduction: evolving sustainability beyond hydrogen. Dalton Transactions, 2019, 48, 9576-9580.	1.6	5
39	Simulation of electron paramagnetic resonance spectra of spin-labeled molecules from replica-exchange molecular dynamics. Physical Review E, 2013, 88, 042701.	0.8	4
40	Nitrosylation of Nitricâ€Oxideâ€Sensing Regulatory Proteins Containing [4Feâ€4S] Clusters Gives Rise to Multiple Ironâ€“Nitrosyl Complexes. Angewandte Chemie, 2016, 128, 14795-14799.	1.6	4
41	Optically Controlled Energy Transfer in Stacked and Coplanar Polycyclic Chromophores. Journal of Physical Chemistry Letters, 2010, 1, 2705-2708.	2.1	2
42	Rate of Molecular Transfer of Allyl Alcohol across an AOT Surfactant Layer Using Muon Spin Spectroscopy. Langmuir, 2016, 32, 664-672.	1.6	2
43	The 28th British Liquid Crystal Society Annual Meeting 2014 in Durham. Liquid Crystals Today, 2014, 23, 82-87.	2.3	0
44	Muonium Chemistry at Diiron Subsite Analogues of [FeFe]â€Hydrogenase. Angewandte Chemie, 2016, 128, 14800-14803.	1.6	0