

Enrica Bordignon

List of Publications by Year in descending order

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65
papers

3,453
citations

136950

32
h-index

149698

56
g-index

69
all docs

69
docs citations

69
times ranked

3536
citing authors

#	ARTICLE	IF	CITATIONS
1	Rotamer libraries of spin labelled cysteines for protein studies. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2356-2366.	2.8	406
2	Structural Model of Active Bax at the Membrane. <i>Molecular Cell</i> , 2014, 56, 496-505.	9.7	190
3	The Structure and Regulation of Human Muscle β -Actinin. <i>Cell</i> , 2014, 159, 1447-1460.	28.9	178
4	High sensitivity and versatility of the DEER experiment on nitroxide radical pairs at Q-band frequencies. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10762.	2.8	173
5	Molecular Details of Bax Activation, Oligomerization, and Membrane Insertion. <i>Journal of Biological Chemistry</i> , 2010, 285, 6636-6647.	3.4	159
6	Structural insight into the role of the Ton complex in energy transduction. <i>Nature</i> , 2016, 538, 60-65.	27.8	142
7	Benchmark Test and Guidelines for DEER/PELDOR Experiments on Nitroxide-Labeled Biomolecules. <i>Journal of the American Chemical Society</i> , 2021, 143, 17875-17890.	13.7	124
8	Structural basis for allosteric cross-talk between the asymmetric nucleotide binding sites of a heterodimeric ABC exporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11025-11030.	7.1	106
9	Conformational heterogeneity of the aspartate transporter GltPh. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 210-214.	8.2	101
10	Orthogonal Spin Labeling and Gd(III)-Nitroxide Distance Measurements on Bacteriophage T4-Lysozyme. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3145-3153.	2.6	93
11	Distance Measurement on an Endogenous Membrane Transporter in <i>E. coli</i> Cells and Native Membranes Using EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6196-6199.	13.8	89
12	The maltose ATP-binding cassette transporter in the 21st century – towards a structural dynamic perspective on its mode of action. <i>Molecular Microbiology</i> , 2010, 77, 1354-1366.	2.5	84
13	Conformation of peptides bound to the transporter associated with antigen processing (TAP). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1349-1354.	7.1	77
14	Structural Analysis of a HAMP Domain. <i>Journal of Biological Chemistry</i> , 2005, 280, 38767-38775.	3.4	66
15	Species-specific Differences of the Spectroscopic Properties of P700. <i>Journal of Biological Chemistry</i> , 2003, 278, 46760-46771.	3.4	65
16	Sensory rhodopsin II and bacteriorhodopsin: Light activated helix F movement. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 543.	2.9	64
17	Transmembrane Signaling in the Maltose ABC Transporter MalFGK2-E. <i>Journal of Biological Chemistry</i> , 2009, 284, 17521-17526.	3.4	64
18	Exploring conformational equilibria of a heterodimeric ABC transporter. <i>ELife</i> , 2017, 6, .	6.0	63

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19	Site-Directed Spin Labeling of Membrane Proteins. <i>Topics in Current Chemistry</i> , 2011, 321, 121-157.	4.0	59
20	The extracellular gate shapes the energy profile of an ABC exporter. <i>Nature Communications</i> , 2019, 10, 2260.	12.8	55
21	Transmembrane Gate Movements in the Type II ATP-binding Cassette (ABC) Importer BtuCD-F during Nucleotide Cycle. <i>Journal of Biological Chemistry</i> , 2011, 286, 41008-41017.	3.4	54
22	Conformational Cycle of the Vitamin B12 ABC Importer in Liposomes Detected by Double Electron-Electron Resonance (DEER). <i>Journal of Biological Chemistry</i> , 2014, 289, 3176-3185.	3.4	53
23	A Comparative Electron Paramagnetic Resonance Study of the Nucleotide-Binding Domains TM Catalytic Cycle in the Assembled Maltose ATP-Binding Cassette Importer. <i>Biophysical Journal</i> , 2008, 95, 2924-2938.	0.5	49
24	Asymmetry in the Homodimeric ABC Transporter MsbA Recognized by a DARPin. <i>Journal of Biological Chemistry</i> , 2012, 287, 20395-20406.	3.4	47
25	Effects of Solubilization on the Structure and Function of the Sensory Rhodopsin II/Transducer Complex. <i>Journal of Molecular Biology</i> , 2006, 356, 1207-1221.	4.2	44
26	Salt-driven Equilibrium between Two Conformations in the HAMP Domain from <i>Natronomonas pharaonis</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 28691-28701.	3.4	43
27	Spin-labeled nanobodies as protein conformational reporters for electron paramagnetic resonance in cellular membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2441-2448.	7.1	41
28	Membrane Protein Structure and Dynamics Studied by Site-Directed Spin-Labeling ESR. , 2007, , 129-164.		39
29	Atomistic Mechanism of Large-Scale Conformational Transition in a Heterodimeric ABC Exporter. <i>Journal of the American Chemical Society</i> , 2018, 140, 4543-4551.	13.7	39
30	Liquid state DNP for water accessibility measurements on spin-labeled membrane proteins at physiological temperatures. <i>Journal of Magnetic Resonance</i> , 2012, 222, 34-43.	2.1	38
31	In-Cell Double Electron ⁺ Electron Resonance at Nanomolar Protein Concentrations. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3679-3684.	4.6	36
32	Topology of active, membrane-embedded Bax in the context of a toroidal pore. <i>Cell Death and Differentiation</i> , 2018, 25, 1717-1731.	11.2	35
33	Fluorescence and Absorption Detected Magnetic Resonance of Chlorosomes from Green Bacteria <i>Chlorobium tepidum</i> and <i>Chloroflexus aurantiacus</i> . A Comparative Study ⁺ . <i>Journal of Physical Chemistry B</i> , 2001, 105, 246-255.	2.6	34
34	New limits of sensitivity of site-directed spin labeling electron paramagnetic resonance for membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 841-853.	2.6	34
35	Conformational plasticity of the type I maltose ABC importer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5492-5497.	7.1	32
36	Improved signal fidelity in 4-pulse DEER with Gaussian pulses. <i>Journal of Magnetic Resonance</i> , 2018, 296, 103-111.	2.1	32

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37	Transmembrane signal transduction in archaeal phototaxis: The sensory rhodopsin II-transducer complex studied by electron paramagnetic resonance spectroscopy. <i>European Journal of Cell Biology</i> , 2011, 90, 731-739.	3.6	30
38	Diethyl Pyrroline Nitroxide Spin Labels: Synthesis, EPR Characterization, Rotamer Libraries and Biocompatibility. <i>ChemistryOpen</i> , 2019, 8, 1057-1065.	1.9	30
39	Dynamic Interaction of cBid with Detergents, Liposomes and Mitochondria. <i>PLoS ONE</i> , 2012, 7, e35910.	2.5	28
40	A new perspective on membrane-embedded Bax oligomers using DEER and bioresistant orthogonal spin labels. <i>Scientific Reports</i> , 2019, 9, 13013.	3.3	24
41	Analysis of Light-Induced Conformational Changes of <i>Natronomonas pharaonis</i> Sensory Rhodopsin II by Time Resolved Electron Paramagnetic Resonance Spectroscopy. <i>Photochemistry and Photobiology</i> , 2007, 83, 263-272.	2.5	23
42	Light-Driven Domain Mechanics of a Minimal Phytochrome Photosensory Module Studied by EPR. <i>Structure</i> , 2018, 26, 1534-1545.e4.	3.3	23
43	Reversible peptide particle formation using a mini amino acid sequence. <i>Soft Matter</i> , 2010, 6, 5596.	2.7	22
44	Steps for Shigella Gatekeeper Protein MxiC Function in Hierarchical Type III Secretion Regulation. <i>Journal of Biological Chemistry</i> , 2017, 292, 1705-1723.	3.4	22
45	EPR Relaxation-Enhancement-Based Distance Measurements on Orthogonally Spin-Labeled T4 Lysozyme. <i>ChemBioChem</i> , 2013, 14, 1883-1890.	2.6	18
46	Neural networks in pulsed dipolar spectroscopy: A practical guide. <i>Journal of Magnetic Resonance</i> , 2022, 338, 107186.	2.1	18
47	Changes in the Microenvironment of Nitroxide Radicals around the Glass Transition Temperature. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13797-13806.	2.6	17
48	Solution NMR Structure and Functional Analysis of the Integral Membrane Protein YgaP from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 23482-23503.	3.4	16
49	Pushing the size limit of de novo structure ensemble prediction guided by sparse SDSL-EPR restraints to 200 residues: The monomeric and homodimeric forms of BAX. <i>Journal of Structural Biology</i> , 2016, 195, 62-71.	2.8	14
50	The Signal Transfer from the Receptor NpSRII to the Transducer NpHtrII Is Not Hampered by the D75N Mutation. <i>Biophysical Journal</i> , 2011, 100, 2275-2282.	0.5	13
51	In Situ Spin Labeling of His-Tagged Proteins: Distance Measurements under Cell Conditions. <i>Chemistry - A European Journal</i> , 2013, 19, 13714-13719.	3.3	13
52	EPR Techniques to Probe Insertion and Conformation of Spin-Labeled Proteins in Lipid Bilayers. <i>Methods in Molecular Biology</i> , 2013, 974, 329-355.	0.9	11
53	From in vitro towards in situ : structure-based investigation of ABC exporters by electron paramagnetic resonance spectroscopy. <i>FEBS Letters</i> , 2020, 594, 3839-3856.	2.8	11
54	A Joint Venture of Ab Initio Molecular Dynamics, Coupled Cluster Electronic Structure Methods, and Liquid-State Theory to Compute Accurate Isotropic Hyperfine Constants of Nitroxide Probes in Water. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 6366-6386.	5.3	11

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55	Biophysical Characterization of Pro-apoptotic BimBH3 Peptides Reveals an Unexpected Capacity for Self-Association. <i>Structure</i> , 2021, 29, 114-124.e3.	3.3	10
56	Orthogonal spin labeling and pulsed dipolar spectroscopy for protein studies. <i>Methods in Enzymology</i> , 2022, 666, 79-119.	1.0	10
57	<i>gem</i> -Diethyl Pyrroline Nitroxide Spin Labels: Synthesis, EPR Characterization, Rotamer Libraries and Biocompatibility. <i>ChemistryOpen</i> , 2019, 8, 1035-1035.	1.9	9
58	Magnetic Resonance Studies and Molecular Orbital Calculations on the Doublet and Triplet States of Bacteriopurpurin: A Potential Second-Generation Photosensitizer for Photodynamic Therapy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2769-2778.	2.6	7
59	EPR Techniques to Probe Insertion and Conformation of Spin-Labeled Proteins in Lipid Bilayers. <i>Methods in Molecular Biology</i> , 2019, 2003, 493-528.	0.9	7
60	Fluorescence and Absorption Detected Magnetic Resonance of Membranes from the Green Sulfur Bacterium <i>Chlorobium limicola</i> . Full Assignment of Detected Triplet States. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7560-7568.	2.6	6
61	Structural and functional role of the PsbH protein in resistance to light stress in <i>Synechocystis</i> PCC 6803. <i>Functional Plant Biology</i> , 2002, 29, 1181.	2.1	5
62	Strategies to identify and suppress crosstalk signals in double electron-electron resonance (DEER) experiments with gadolinium ³⁺ and nitroxide spin-labeled compounds. <i>Magnetic Resonance</i> , 2020, 1, 285-299.	1.9	5
63	Optically detected magnetic resonance of intact membranes from <i>Chloroflexus aurantiacus</i> . Evidence for exciton interaction between the RC and the B808-866 complex. <i>Photosynthesis Research</i> , 2002, 71, 45-57.	2.9	4
64	A structural model for the assembly of the reaction centre and the B808-866 complex in the membranes of <i>Chloroflexus aurantiacus</i> based on the calculation of the triplet minus singlet spectrum of the primary donor. <i>Chemical Physics</i> , 2003, 294, 267-275.	1.9	4
65	Unveiling the pH-Dependent Dynamics of the Prepore-to-Pore Transition of a Tc Toxin. <i>Biophysical Journal</i> , 2020, 118, 519a-520a.	0.5	0