

Rosa Bartucci

List of Publications by Year in descending order

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73
papers

1,692
citations

279487

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315357

38
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74
all docs

74
docs citations

74
times ranked

1592
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipid membranes with grafted polymers: physicochemical aspects. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1615, 33-59.	1.4	198
2	Water Concentration Profiles in Membranes Measured by ESEEM of Spin-Labeled Lipids. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12003-12013.	1.2	116
3	Time-resolved electron spin resonance studies of spin-labelled lipids in membranes. <i>Chemistry and Physics of Lipids</i> , 2006, 141, 142-157.	1.5	64
4	Librational Motion of Spin-Labeled Lipids in High-Cholesterol Containing Membranes from Echo-Detected EPR Spectra. <i>Biophysical Journal</i> , 2004, 87, 3873-3881.	0.2	61
5	Lipid Membrane Expansion and Micelle Formation by Polymer-Grafted Lipids: Scaling with Polymer Length Studied by Spin-Label Electron Spin Resonance. <i>Biophysical Journal</i> , 2001, 80, 1372-1383.	0.2	60
6	Lipid chain motion in an interdigitated gel phase: conventional and saturation transfer ESR of spin-labeled lipids in dipalmitoylphosphatidylcholine-glycerol dispersions. <i>Biochemistry</i> , 1993, 32, 274-281.	1.2	54
7	Echo-Detected Electron Paramagnetic Resonance Spectra of Spin-Labeled Lipids in Membrane Model Systems. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4501-4507.	1.2	49
8	Molecular and Mesoscopic Properties of Hydrophilic Polymer-Grafted Phospholipids Mixed with Phosphatidylcholine in Aqueous Dispersion: Interaction of Dipalmitoyl N-Poly(Ethylene Glycol) Phosphatidylethanolamine with Dipalmitoylphosphatidylcholine Studied by Spectrophotometry and Spin-Label Electron Spin Resonance. <i>Biophysical Journal</i> , 2000, 78, 1420-1430.	0.2	47
9	Interaction of human serum albumin with membranes containing polymer-grafted lipids: spin-label ESR studies in the mushroom and brush regimes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1564, 237-242.	1.4	46
10	Early stage aggregation of human serum albumin in the presence of metal ions. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 337-342.	3.6	44
11	Intramembrane Polarity by Electron Spin Echo Spectroscopy of Labeled Lipids. <i>Biophysical Journal</i> , 2003, 84, 1025-1030.	0.2	42
12	Thermally induced denaturation and aggregation of BLG-A: effect of the Cu ²⁺ and Zn ²⁺ metal ions. <i>European Biophysics Journal</i> , 2008, 37, 1351-1360.	1.2	41
13	Lipid chain length effect on the phase behaviour of PCs/PEG:2000-PEs mixtures. A spin label electron spin resonance and spectrophotometric study. <i>Biophysical Chemistry</i> , 2001, 93, 11-22.	1.5	39
14	Backbone Dynamics of Alamethicin Bound to Lipid Membranes: Spin-Echo Electron Paramagnetic Resonance of TOAC-Spin Labels. <i>Biophysical Journal</i> , 2008, 94, 2698-2705.	0.2	39
15	Electron spin-echo studies of spin-labelled lipid membranes and free fatty acids interacting with human serum albumin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1541-1549.	1.4	36
16	Stability of trans-Resveratrol Associated with Transport Proteins. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 4384-4391.	2.4	36
17	Distance measurements using paramagnetic ion-induced relaxation in the saturation transfer electron spin resonance of spin-labeled biomolecules. <i>Biophysical Journal</i> , 1992, 61, 1595-1602.	0.2	35
18	Intramembrane Water Associated with TOAC Spin-Labeled Alamethicin: Electron Spin-Echo Envelope Modulation by D ₂ O. <i>Biophysical Journal</i> , 2009, 96, 997-1007.	0.2	32

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19	Fatty acid binding into the highest affinity site of human serum albumin observed in molecular dynamics simulation. <i>Archives of Biochemistry and Biophysics</i> , 2015, 579, 18-25.	1.4	31
20	Neutral lipid bilayers interacting with chaotropic anions. <i>Chemistry and Physics of Lipids</i> , 1996, 79, 171-180.	1.5	29
21	Sterically stabilized liposomes of DPPC/DPPE-PEG:2000. A spin label ESR and spectrophotometric study. <i>Biophysical Chemistry</i> , 1998, 75, 33-43.	1.5	28
22	Bipolar Tetraether Lipids: Chain Flexibility and Membrane Polarity Gradients from Spin-Label Electron Spin Resonance. <i>Biochemistry</i> , 2005, 44, 15017-15023.	1.2	27
23	Shifts in chain-melting transition temperature of liposomal membranes by polymer-grafted lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1614, 165-170.	1.4	24
24	Conformational Heterogeneity and Spin-Labeled α -SH Groups: Pulsed EPR of Na,K-ATPase. <i>Biochemistry</i> , 2009, 48, 8343-8354.	1.2	23
25	Resveratrol induces thermal stabilization of human serum albumin and modulates the early aggregation stage. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 1049-1056.	3.6	23
26	Electron paramagnetic resonance of single-phase pellets of the high- T_c superconductor $YBa_2Cu_3O_{7-x}$. <i>Physical Review B</i> , 1988, 37, 2313-2316.	1.1	22
27	Chain dynamics in the low-temperature phases of lipid membranes by electron spin-echo spectroscopy. <i>Journal of Magnetic Resonance</i> , 2003, 162, 371-379.	1.2	21
28	Resveratrol induces chain interdigitation in DPPC cell membrane model systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 615-621.	2.5	21
29	Effect of high electrolyte concentration on the phase transition behaviour of DPPC vesicles: a spin label study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990, 1025, 117-121.	1.4	20
30	Solvent effect on librational dynamics of spin-labelled haemoglobin by ED- and CW-EPR. <i>European Biophysics Journal</i> , 2011, 40, 273-279.	1.2	20
31	Dynamics and Binding Affinity of Spin-Labeled Stearic Acids in β -Lactoglobulin: Evidences from EPR Spectroscopy and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11608-11615.	1.2	20
32	Librational fluctuations in protein glasses. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1591-1595.	1.1	19
33	Alpha-synuclein and familial variants affect the chain order and the thermotropic phase behavior of anionic lipid vesicles. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1206-1214.	1.1	16
34	Spin label EPR study of the effects of monovalent cations, anions, and chaotropics on DPPC multilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994, 1195, 229-236.	1.4	15
35	Kinetics and dynamics of annealing during sub-gel phase formation in phospholipid bilayers. <i>Biophysical Journal</i> , 1993, 64, 1781-1788.	0.2	14
36	Spin-echo EPR of Na,K-ATPase unfolding by urea. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 1618-1628.	1.4	14

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37	Influence of stearic acids on resveratrol-HSA interaction. <i>European Biophysics Journal</i> , 2012, 41, 969-977.	1.2	14
38	Lipid Librations at the Interface with the Na,K-ATPase. <i>Biophysical Journal</i> , 2015, 108, 2825-2832.	0.2	14
39	Transfer of stearic acids from albumin to polymer-grafted lipid containing membranes probed by spin-label electron spin resonance. <i>Biophysical Chemistry</i> , 2005, 114, 121-127.	1.5	13
40	Low-Temperature Dynamics of Chain-Labeled Lipids in Ester- and Ether-Linked Phosphatidylcholine Membranes. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9239-9246.	1.2	13
41	Association of ibuprofen at the polar/apolar interface of lipid membranes. <i>Archives of Biochemistry and Biophysics</i> , 2018, 654, 77-84.	1.4	13
42	Effects of poly(ethylene glycol) on neutral lipid bilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 115, 63-71.	2.3	12
43	Lipid chain mobility in interdigitated DPPC systems. <i>Applied Magnetic Resonance</i> , 1997, 12, 41-52.	0.6	12
44	Spin-label electron spin resonance studies of micellar dispersions of PEGsâ€PEs polymer-lipids. <i>Chemistry and Physics of Lipids</i> , 2003, 124, 111-122.	1.5	12
45	Warfarin increases thermal resistance of albumin through stabilization of the protein lobe that includes its binding site. <i>Archives of Biochemistry and Biophysics</i> , 2019, 676, 108123.	1.4	12
46	Paclitaxel interaction with phospholipid bilayers: high-sensitivity differential scanning calorimetric study. <i>Thermochimica Acta</i> , 2005, 427, 175-180.	1.2	11
47	Calorimetric and spin-label ESR studies of PEG:2000-DPPE containing DPPC/lyso-PPC mixtures. <i>Colloid and Polymer Science</i> , 2007, 285, 649-656.	1.0	11
48	Water Penetration Profile at the Protein-Lipid Interface in Na,K-ATPase Membranes. <i>Biophysical Journal</i> , 2014, 107, 1375-1382.	0.2	11
49	Electron spin resonance of spin-labeled lipid assemblies and proteins. <i>Archives of Biochemistry and Biophysics</i> , 2015, 580, 102-111.	1.4	11
50	ESR investigation on the phase transitions of DPPC vesicles in presence of high concentrations of Li+, Na+, K+ and Cs+. <i>Colloid and Polymer Science</i> , 1993, 271, 262-267.	1.0	10
51	Spectroscopic and calorimetric studies on the interaction of human serum albumin with DPPC/PEG:2000-DPPE membranes. <i>European Biophysics Journal</i> , 2008, 37, 961-973.	1.2	10
52	Unsaturated lipid bilayers at cryogenic temperature: librational dynamics of chain-labeled lipids from pulsed and CW-EPR. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18699-18705.	1.3	9
53	Interdigitated lamellar phases in the frozen state: Spin-label CW- and FT-EPR. <i>Biophysical Chemistry</i> , 2019, 253, 106229.	1.5	9
54	Procain interaction with DPPC multilayers: an ESR spin label investigation. <i>Applied Magnetic Resonance</i> , 1998, 15, 181-195.	0.6	8

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55	Effect of Inhalation Anesthetics on Spin-Labeled Cholesterol Containing DPPC Vesicles. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1988, 43, 264-268.	0.6	7
56	Binding of warfarin differently affects the thermal behavior and chain packing of anionic, zwitterionic and cationic lipid membranes. Archives of Biochemistry and Biophysics, 2020, 694, 108599.	1.4	7
57	Heterogeneity of Protein Substates Visualized by Spin-label EPR. Biophysical Journal, 2014, 106, 716-722.	0.2	6
58	Ether-linked lipids: Spin-label EPR and spin echoes. Chemistry and Physics of Lipids, 2018, 212, 130-137.	1.5	6
59	Spontaneous transfer of stearic acids between human serum albumin and PEG:2000-grafted DPPC membranes. European Biophysics Journal, 2010, 39, 921-927.	1.2	5
60	Chain interdigitation in DPPC bilayers induced by HgCl ₂ : Evidences from continuous wave and pulsed EPR. Chemistry and Physics of Lipids, 2014, 183, 176-183.	1.5	5
61	Kinetics of stearic acid transfer between human serum albumin and sterically stabilized liposomes. European Biophysics Journal, 2010, 39, 1351-1357.	1.2	4
62	Complexes of copper(II) dipeptides with hexacyanoferrate(III). Magnetic and spectroscopic properties. Inorganica Chimica Acta, 1985, 106, 85-87.	1.2	3
63	Phase behaviour of DPPC/Lyso-PPC mixtures by spin-label ESR and spectrophotometry. Spectroscopy, 2008, 22, 153-163.	0.8	3
64	Solvent accessibility in interdigitated and micellar phases formed by DPPC/Lyso-PPC mixtures: D ₂ O-ESEEM of chain labeled lipids. Chemistry and Physics of Lipids, 2019, 221, 39-45.	1.5	3
65	Influence of hydration on segmental chain librations and dynamical transition in lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183805.	1.4	3
66	Effects of Polar Head Nature and Tail Length of Single-Chain Lipids on the Conformational Stability of β -Lactoglobulin. Journal of Physical Chemistry B, 2020, 124, 944-952.	1.2	2
67	Interactive multiple binding of oleic acid, warfarin and ibuprofen with human serum albumin revealed by thermal and fluorescence studies. European Biophysics Journal, 2022, 51, 41-49.	1.2	2
68	Electrostatic interaction on purple membrane: a spin label study on pH and ionic-strength effects. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1985, 6, 609-617.	0.4	1
69	Electrolyte interaction with DPPC vesicles: An ESR study. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1990, 12, 1585-1592.	0.4	1
70	Cryogenically frozen PEGylated liposomes and micelles: Water penetration and polarity profiles. Biophysical Chemistry, 2020, 266, 106463.	1.5	1
71	Geometry and water accessibility of the inhibitor binding site of Na ⁺ -pump: Pulse- and CW-EPR study. Biophysical Journal, 2021, 120, 2679-2690.	0.2	1
72	Low-temperature librations and dynamical transition in proteins at differing hydration levels. Biomolecular Concepts, 2022, 13, 81-88.	1.0	0

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73	Librational Dynamics of Spin-Labeled Membranes at Cryogenic Temperatures From Echo-Detected ED-EPR Spectra. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	1.6	0