

# Rosa Bartucci

## List of Publications by Year in descending order

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73  
papers

1,692  
citations

279487

23  
h-index

315357

38  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1592  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of hydration on segmental chain librations and dynamical transition in lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183805.	1.4	3
2	Interactive multiple binding of oleic acid, warfarin and ibuprofen with human serum albumin revealed by thermal and fluorescence studies. <i>European Biophysics Journal</i> , 2022, 51, 41-49.	1.2	2
3	Low-temperature librations and dynamical transition in proteins at differing hydration levels. <i>Biomolecular Concepts</i> , 2022, 13, 81-88.	1.0	0
4	Geometry and water accessibility of the inhibitor binding site of Na <sup>+</sup> -pump: Pulse- and CW-EPR study. <i>Biophysical Journal</i> , 2021, 120, 2679-2690.	0.2	1
5	Binding of warfarin differently affects the thermal behavior and chain packing of anionic, zwitterionic and cationic lipid membranes. <i>Archives of Biochemistry and Biophysics</i> , 2020, 694, 108599.	1.4	7
6	Cryogenically frozen PEGylated liposomes and micelles: Water penetration and polarity profiles. <i>Biophysical Chemistry</i> , 2020, 266, 106463.	1.5	1
7	Effects of Polar Head Nature and Tail Length of Single-Chain Lipids on the Conformational Stability of $\beta^2$ -Lactoglobulin. <i>Journal of Physical Chemistry B</i> , 2020, 124, 944-952.	1.2	2
8	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
9	Interdigitated lamellar phases in the frozen state: Spin-label CW- and FT-EPR. <i>Biophysical Chemistry</i> , 2019, 253, 106229.	1.5	9
10	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
11	Solvent accessibility in interdigitated and micellar phases formed by DPPC/Lyso-PPC mixtures: D2O-ESEEM of chain labeled lipids. <i>Chemistry and Physics of Lipids</i> , 2019, 221, 39-45.	1.5	3
12	Ether-linked lipids: Spin-label EPR and spin echoes. <i>Chemistry and Physics of Lipids</i> , 2018, 212, 130-137.	1.5	6
13	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
14	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
15	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
16	Resveratrol induces chain interdigitation in DPPC cell membrane model systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 615-621.	2.5	21
17	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
18	Lipid Librations at the Interface with the Na,K-ATPase. <i>Biophysical Journal</i> , 2015, 108, 2825-2832.	0.2	14

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19	Fatty acid binding into the highest affinity site of human serum albumin observed in molecular dynamics simulation. Archives of Biochemistry and Biophysics, 2015, 579, 18-25.	1.4	31
20	Electron spin resonance of spin-labeled lipid assemblies and proteins. Archives of Biochemistry and Biophysics, 2015, 580, 102-111.	1.4	11
21	Water Penetration Profile at the Protein-Lipid Interface in Na,K-ATPase Membranes. Biophysical Journal, 2014, 107, 1375-1382.	0.2	11
22	Stability of trans-Resveratrol Associated with Transport Proteins. Journal of Agricultural and Food Chemistry, 2014, 62, 4384-4391.	2.4	36
23	Chain interdigitation in DPPC bilayers induced by HgCl <sub>2</sub> : Evidences from continuous wave and pulsed EPR. Chemistry and Physics of Lipids, 2014, 183, 176-183.	1.5	5
24	Heterogeneity of Protein Substates Visualized by Spin-label EPR. Biophysical Journal, 2014, 106, 716-722.	0.2	6
25	Librational fluctuations in protein glasses. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1591-1595.	1.1	19
26	Influence of stearic acids on resveratrol-HSA interaction. European Biophysics Journal, 2012, 41, 969-977.	1.2	14
27	Dynamics and Binding Affinity of Spin-Labeled Stearic Acids in $\beta$ -Lactoglobulin: Evidences from EPR Spectroscopy and Molecular Dynamics Simulation. Journal of Physical Chemistry B, 2012, 116, 11608-11615.	1.2	20
28	Spin-echo EPR of Na,K-ATPase unfolding by urea. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1618-1628.	1.4	14
29	Early stage aggregation of human serum albumin in the presence of metal ions. International Journal of Biological Macromolecules, 2011, 49, 337-342.	3.6	44
30	Solvent effect on librational dynamics of spin-labelled haemoglobin by ED- and CW-EPR. European Biophysics Journal, 2011, 40, 273-279.	1.2	20
31	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
32	Kinetics of stearic acid transfer between human serum albumin and sterically stabilized liposomes. European Biophysics Journal, 2010, 39, 1351-1357.	1.2	4
33	Conformational Heterogeneity and Spin-Labeled $\beta$ -SH Groups: Pulsed EPR of Na,K-ATPase. Biochemistry, 2009, 48, 8343-8354.	1.2	23
34	Intramembrane Water Associated with TOAC Spin-Labeled Alamethicin: Electron Spin-Echo Envelope Modulation by D <sub>2</sub> O. Biophysical Journal, 2009, 96, 997-1007.	0.2	32
35	Spectroscopic and calorimetric studies on the interaction of human serum albumin with DPPC/PEG:2000-DPPE membranes. European Biophysics Journal, 2008, 37, 961-973.	1.2	10
36	Thermally induced denaturation and aggregation of BLG-A: effect of the Cu <sup>2+</sup> and Zn <sup>2+</sup> metal ions. European Biophysics Journal, 2008, 37, 1351-1360.	1.2	41

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37	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
38	Phase behaviour of DPPC/Lyso-PPC mixtures by spin-label ESR and spectrophotometry. <i>Spectroscopy</i> , 2008, 22, 153-163.	0.8	3
39	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
40	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
41	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
42	Paclitaxel interaction with phospholipid bilayers: high-sensitivity differential scanning calorimetric study. <i>Thermochimica Acta</i> , 2005, 427, 175-180.	1.2	11
43	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
44	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
45	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
46	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
47	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
48	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
49	Spin-label electron spin resonance studies of micellar dispersions of PEGs-PEs polymer-lipids. <i>Chemistry and Physics of Lipids</i> , 2003, 124, 111-122.	1.5	12
50	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
51	Lipid membranes with grafted polymers: physicochemical aspects. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1615, 33-59.	1.4	198
52	Intramembrane Polarity by Electron Spin Echo Spectroscopy of Labeled Lipids. <i>Biophysical Journal</i> , 2003, 84, 1025-1030.	0.2	42
53	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
54	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

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55	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
56	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
57	Procain interaction with DPPC multilayers: an ESR spin label investigation. <i>Applied Magnetic Resonance</i> , 1998, 15, 181-195.	0.6	8
58	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
59	Lipid chain mobility in interdigitated DPPC systems. <i>Applied Magnetic Resonance</i> , 1997, 12, 41-52.	0.6	12
60	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
61	Neutral lipid bilayers interacting with chaotropic anions. <i>Chemistry and Physics of Lipids</i> , 1996, 79, 171-180.	1.5	29
62	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
63	ESR investigation on the phase transitions of DPPC vesicles in presence of high concentrations of Li <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> and Cs <sup>+</sup> . <i>Colloid and Polymer Science</i> , 1993, 271, 262-267.	1.0	10
64	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
65	Kinetics and dynamics of annealing during sub-gel phase formation in phospholipid bilayers. <i>Biophysical Journal</i> , 1993, 64, 1781-1788.	0.2	14
66	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
67	Electrolyte interaction with DPPC vesicles: An ESR study. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1990, 12, 1585-1592.	0.4	1
68	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
69	Electron paramagnetic resonance of single-phase pellets of the high-T <sub>c</sub> superconductor YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . <i>Physical Review B</i> , 1988, 37, 2313-2316.	1.1	22
70	Effect of Inhalation Anesthetics on Spin-Labeled Cholesterol Containing DPPC Vesicles. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1988, 43, 264-268.	0.6	7
71	Complexes of copper(II) dipeptides with hexacyanoferrate(III). Magnetic and spectroscopic properties. <i>Inorganica Chimica Acta</i> , 1985, 106, 85-87.	1.2	3
72	Electrostatic interaction on purple membrane: a spin label study on pH and ionic-strength effects. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1985, 6, 609-617.	0.4	1

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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