

# Sandra Ristori

## List of Publications by Year in descending order

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108  
papers

2,337  
citations

186209

28  
h-index

276775

41  
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112  
all docs

112  
docs citations

112  
times ranked

3080  
citing authors

#	ARTICLE	IF	CITATIONS
1	DOTAP/DOPE and DC-Chol/DOPE lipoplexes for gene delivery: zeta potential measurements and electron spin resonance spectra. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1664, 70-79.	1.4	108
2	Using Liposomes as Carriers for Polyphenolic Compounds: The Case of Trans-Resveratrol. <i>PLoS ONE</i> , 2012, 7, e41438.	1.1	99
3	EPR and SQUID magnetometry study of Cu <sub>2</sub> FeSnS <sub>4</sub> (stannite) and Cu <sub>2</sub> ZnSnS <sub>4</sub> (kesterite). <i>Physics and Chemistry of Minerals</i> , 2000, 27, 453-461.	0.3	78
4	Chemical communication between liposomes encapsulating a chemical oscillatory reaction. <i>Chemical Science</i> , 2014, 5, 1854-1859.	3.7	71
5	Small Angle X-ray and Neutron Scattering: Powerful Tools for Studying the Structure of Drug-Loaded Liposomes. <i>Pharmaceutics</i> , 2016, 8, 10.	2.0	67
6	Green and cost-effective synthesis of copper nanoparticles by extracts of non-edible and waste plant materials from <i>Vaccinium</i> species: Characterization and antimicrobial activity. <i>Materials Science and Engineering C</i> , 2021, 119, 111453.	3.8	67
7	Carborane Derivatives Loaded into Liposomes as Efficient Delivery Systems for Boron Neutron Capture Therapy. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 7829-7835.	2.9	65
8	Bioreducible Liposomes for Gene Delivery: From the Formulation to the Mechanism of Action. <i>PLoS ONE</i> , 2010, 5, e13430.	1.1	59
9	Structural Characterization of Cationic Liposomes Loaded with Sugar-Based Carboranes. <i>Biophysical Journal</i> , 2005, 88, 535-547.	0.2	53
10	When Sustainable Nanochemistry Meets Agriculture: Lignin Nanocapsules for Bioactive Compound Delivery to Plantlets. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19935-19942.	3.2	53
11	Physico-chemical characterization and transfection efficacy of cationic liposomes containing the pEGFP plasmid. <i>Biophysical Chemistry</i> , 2006, 121, 21-29.	1.5	51
12	Chemical communication and dynamics of droplet emulsions in networks of Belousov-Zhabotinsky micro-oscillators produced by microfluidics. <i>Lab on A Chip</i> , 2017, 17, 1179-1189.	3.1	46
13	Chemical Waves and Pattern Formation in the 1,2-Dipalmitoyl-sn-glycero-3-phosphocholine/Water Lamellar System. <i>Journal of the American Chemical Society</i> , 2004, 126, 11406-11407.	6.6	42
14	Dynamics of pattern formation in biomimetic systems. <i>Journal of Theoretical Biology</i> , 2008, 255, 404-412.	0.8	42
15	Evidences of Strong C-H...O Bond in ano-Carboranyl <sup>12</sup> -Lactoside in Solution. <i>Journal of the American Chemical Society</i> , 2002, 124, 8778-8779.	6.6	41
16	Aggregate Structures in a Dilute Aqueous Dispersion of a Fluorinated/Hydrogenated Surfactant System. A Cryo-Transmission Electron Microscopy Study. <i>Langmuir</i> , 2001, 17, 2340-2345.	1.6	37
17	DOTAP/DOPE and DC-Chol/DOPE lipoplexes for gene delivery studied by circular dichroism and other biophysical techniques. <i>Biophysical Chemistry</i> , 2007, 127, 213-220.	1.5	37
18	Carboranyl-porphyrazines and derivatives for boron neutron capture therapy: From synthesis to in vitro tests. <i>Coordination Chemistry Reviews</i> , 2013, 257, 2213-2231.	9.5	37

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19	Small Angle Scattering and Zeta Potential of Liposomes Loaded with Octa(carboranyl)porphyrazine. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10357-10364.	1.2	36
20	Synthesis and Liposome Insertion of a New Poly(carboranylalkylthio)porphyrazine to Improve Potentiality in Multiple-Approach Cancer Therapy. <i>Journal of the American Chemical Society</i> , 2007, 129, 2728-2729.	6.6	36
21	Surface-enhanced Raman spectra of dimethoate and omethoate. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 980-985.	1.2	35
22	Boron as a platform for new drug design. <i>Expert Opinion on Drug Discovery</i> , 2012, 7, 1017-1027.	2.5	35
23	Sustainable strategies for large-scale nanotechnology manufacturing in the biomedical field. <i>Green Chemistry</i> , 2018, 20, 3897-3907.	4.6	35
24	Electron paramagnetic resonance lineshape analysis of small and large probes introduced into micellar aqueous solutions of ammonium pentadecafluorooctanoate. <i>Langmuir</i> , 1992, 8, 1937-1942.	1.6	33
25	Characterization of Persistent Intramolecular C-H...X(N,O) Bonds in Solid State and Solution. <i>Chemistry - A European Journal</i> , 2004, 10, 3177-3183.	1.7	32
26	Rational design of gold nanoparticles functionalized with carboranes for application in Boron Neutron Capture Therapy. <i>International Journal of Pharmaceutics</i> , 2013, 458, 340-346.	2.6	30
27	<i>Cucurbita pepo</i> L. extracts as a versatile hydrotropic source for the synthesis of gold nanoparticles with different shapes. <i>Green Chemistry Letters and Reviews</i> , 2015, 8, 39-47.	2.1	30
28	Effect of the preparation procedure on the structural properties of oligonucleotide/cationic liposome complexes (lipoplexes) studied by electron spin resonance and Zeta potential. <i>Biophysical Chemistry</i> , 2007, 131, 80-87.	1.5	29
29	Interaction of the Belousov-Zhabotinsky Reaction with Phospholipid Engineered Membranes. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10224-10230.	1.2	29
30	Study of bradykinin conformation in the presence of model membrane by Nuclear Magnetic Resonance and molecular modelling. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 708-716.	1.4	27
31	Association of sugar-based carboranes with cationic liposomes: an electron spin resonance and light scattering study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1664, 53-63.	1.4	26
32	Complexing a small interfering RNA with divalent cationic surfactants. <i>Soft Matter</i> , 2012, 8, 749-756.	1.2	26
33	Tuning the Chemical Communication of Oscillating Microdroplets by Means of Membrane Composition. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13256-13264.	1.5	26
34	Antibiotic delivery by liposomes from prokaryotic microorganisms: Similia cum similibus works better. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 94, 411-418.	2.0	25
35	Spontaneous Formation of Monodisperse Vesicles in Dilute Aqueous Solutions of PFPE and Betaine. <i>Langmuir</i> , 1996, 12, 686-690.	1.6	24
36	Magnetic Resonance Characterization of Betaine Micelles and Betaine-Perfluoropolyether Mixed Vesicles. <i>Journal of Physical Chemistry B</i> , 1997, 101, 4155-4165.	1.2	24

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37	A dimerizable cationic lipid with potential for gene delivery. <i>Journal of Gene Medicine</i> , 2008, 10, 637-645.	1.4	24
38	An improved neutron autoradiography set-up for <sup>10</sup> B concentration measurements in biological samples. <i>Reports of Practical Oncology and Radiotherapy</i> , 2016, 21, 123-128.	0.3	24
39	Insertion of a magnesium(II)-octacarboranyl(hexylsulfanyl) porphyrazine into liposomes: A physico-chemical study. <i>Biophysical Chemistry</i> , 2007, 131, 43-51.	1.5	23
40	Boronphenylalanine insertion in cationic liposomes for Boron Neutron Capture Therapy. <i>Biophysical Chemistry</i> , 2004, 111, 27-34.	1.5	22
41	Membrane Structure Drives Synchronization Patterns in Arrays of Diffusively Coupled Self-Oscillating Droplets. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2014-2020.	2.1	22
42	Advances in Lipid-Based Platforms for RNAi Therapeutics. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 1138-1146.	2.9	21
43	Synthesis, Conformational Studies, Binding Assessment and Liposome Insertion of a Thioether-Bridged Mimetic of the Antigen GM3 Ganglioside Lactone. <i>ChemBioChem</i> , 2007, 8, 1646-1649.	1.3	20
44	Scanning Electrochemical Microscopy of Belousov-Zhabotinsky Reaction: How Confined Oscillations Reveal Short Lived Radicals and Auto-Catalytic Species. <i>Analytical Chemistry</i> , 2015, 87, 9621-9630.	3.2	20
45	Aggregation of perfluorinated polymers in aqueous solution studied by ESR. <i>Colloids and Surfaces</i> , 1990, 45, 177-184.	0.9	19
46	Time resolved SAXS to study the complexation of siRNA with cationic micelles of divalent surfactants. <i>Soft Matter</i> , 2014, 10, 2226-2233.	1.2	19
47	Synthesis, Spectroscopy and Electrochemistry of Lanthanide Bis-(ethylsulfanyl)tetraazaporphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 1998, 02, 177-188.	0.4	18
48	Characterization of micellar solutions of perfluorinated polyethers by electron paramagnetic resonance spectroscopy: limits and reliability. <i>Langmuir</i> , 1991, 7, 1958-1962.	1.6	17
49	Small angle scattering study of perfluoropolyethers/water systems. <i>The Journal of Physical Chemistry</i> , 1993, 97, 8664-8668.	2.9	17
50	Paramagnetic probes for the investigation of ordered and disordered perfluorosurfactants, perfluoropolyethers and perfluorinated ionomers. <i>Advances in Colloid and Interface Science</i> , 1995, 57, 65-122.	7.0	17
51	Interplay between the Belousov-Zhabotinsky reaction-diffusion system and biomimetic matrices. <i>Chemical Physics Letters</i> , 2007, 436, 175-178.	1.2	17
52	Unconventional and Sustainable Nanovectors for Phytohormone Delivery: Insights on <i>Olea europaea</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15022-15031.	3.2	17
53	Electron Spin Echo Study of Doxyl Spin Probes in Micellar Systems of Ammonium Perfluorooctanoate. <i>The Journal of Physical Chemistry</i> , 1994, 98, 2125-2128.	2.9	16
54	Carbonic anhydrase inhibitors: Design of spin-labeled sulfonamides incorporating TEMPO moieties as probes for cytosolic or transmembrane isozymes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 3475-3480.	1.0	16

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55	The state of hydrated vanadyl ions adsorbed on a perfluorinated ionomer as studied by ESR and ENDOR. <i>Macromolecules</i> , 1989, 22, 1743-1748.	2.2	14
56	Solution behavior of a sugar-based carborane for boron neutron capture therapy: A nuclear magnetic resonance investigation. <i>Biophysical Chemistry</i> , 2007, 125, 320-327.	1.5	14
57	Structural study of liposomes loaded with a GM3 lactone analogue for the targeting of tumor epitopes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 2518-2525.	1.4	14
58	Electron Spin Resonance and Differential Scanning Calorimetry as Combined Tools for the Study of Liposomes in the Presence of Long Chain Nitroxides. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10468-10473.	1.2	13
59	Carborane-Conjugated 2-Quinolincarboxamide Ligands of the Translocator Protein for Boron Neutron Capture Therapy. <i>Bioconjugate Chemistry</i> , 2010, 21, 2213-2221.	1.8	13
60	Green Synthesis of Gold Nanoparticles from Extracts of Cucurbita pepo L. Leaves: Insights on the Role of Plant Ageing. <i>Lecture Notes in Bioengineering</i> , 2018, , 155-164.	0.3	13
61	Adsorption of nitroxide-heavy water (D2O) solutions on X and Y zeolites studied by electron spin resonance and electron spin echo spectroscopies. <i>The Journal of Physical Chemistry</i> , 1990, 94, 7607-7611.	2.9	11
62	Fluorinated/Hydrogenated Mixed Vesicles as Carrier of Model Biomolecules: A Spectroscopic Study. <i>Journal of Physical Chemistry B</i> , 1997, 101, 8507-8512.	1.2	11
63	Partial Orientation of Cytochrome c in a Lyotropic Liquid Crystal: Residual $\text{H}\alpha^{\text{H}}$ Dipolar Coupling. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10653-10658.	1.2	11
64	Dissecting the Inhibition Mechanism of Cytosolic versus Transmembrane Carbonic Anhydrases by ESR. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13998-14005.	1.2	11
65	ESR and scattering studies of perfluorinated surfactants in ordered and disordered systems. <i>Applied Magnetic Resonance</i> , 1994, 6, 29-50.	0.6	10
66	Functionalized Clay Microparticles as Catalysts for Chemical Oscillators. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24389-24396.	1.5	10
67	Structural Characterization of Self-Assembling Hybrid Nanoparticles for Bisphosphonate Delivery in Tumors. <i>Molecular Pharmaceutics</i> , 2018, 15, 1258-1265.	2.3	10
68	Nitroxide radicals as probes for water mobility in perfluorinated membrane. <i>Journal of Colloid and Interface Science</i> , 1989, 128, 76-87.	5.0	9
69	Investigation of a liquid crystal dispersed in an ionic polymeric membrane. <i>Chemistry of Materials</i> , 1993, 5, 1570-1576.	3.2	9
70	Infrared Investigation of the Water Structure in Perfluoropolyether/Water System. <i>The Journal of Physical Chemistry</i> , 1995, 99, 1120-1123.	2.9	9
71	ToF-SIMS and PCA studies of Seggianese olives and olive oil. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 279, 225-232.	2.3	9
72	Lipoplexes from Non-viral Cationic Vectors: DOTAP-DOPE Liposomes and Gemini Micelles. <i>Methods in Molecular Biology</i> , 2016, 1445, 33-43.	0.4	9

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73	Lipids from algal biomass provide new (nonlamellar) nanovectors with high carrier potentiality for natural antioxidants. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 158, 410-416.	2.0	9
74	Spectroscopic characterization of fluorinated/hydrogenated mixed vesicles containing fluorinated Mn(III)-porphyrin. <i>Inorganica Chimica Acta</i> , 1998, 272, 274-282.	1.2	8
75	DNA induced dimerization of a sulfhydryl surfactant in transfection agents studied by ESR spectroscopy. <i>Biophysical Chemistry</i> , 2010, 151, 81-85.	1.5	8
76	Physico-chemical properties of gemini micelles studied by X-ray scattering and ESR spectroscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 472, 101-108.	2.3	8
77	Gold Nanoparticles from Vegetable Extracts Using Different Plants from the Market: A Study on Stability, Shape and Toxicity. <i>ChemistrySelect</i> , 2017, 2, 9777-9782.	0.7	8
78	Lipid-Stabilized Water/Oil Interfaces Studied by Microfocusing Small-Angle X-ray Scattering. <i>Langmuir</i> , 2017, 33, 9100-9105.	1.6	8
79	Green Nanovectors for Phytodrug Delivery: In-Depth Structural and Morphological Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 12838-12846.	3.2	8
80	Synchronization scenarios induced by delayed communication in arrays of diffusively coupled autonomous chemical oscillators. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17606-17615.	1.3	8
81	Approaches to Molecular Communication Between Synthetic Compartments Based on Encapsulated Chemical Oscillators. <i>Communications in Computer and Information Science</i> , 2014, , 58-74.	0.4	8
82	Mixed Fluorocarbon/Hydrocarbon Surfactant Vesicles as Carriers of Metalloproteins: Scattering and Magnetic Resonance Experiments. <i>Journal of Physical Chemistry A</i> , 1998, 102, 5476-5480.	1.1	7
83	Hydrotropic Solubilization of Gold Nanoparticles Functionalized with Proto-Alkylthioporphyrines. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8537-8540.	1.5	7
84	Carboranylporphyrines for anti-cancer therapies: synthesis and physicochemical properties. <i>Journal of Porphyrins and Phthalocyanines</i> , 2010, 14, 678-688.	0.4	7
85	Microfluidic compartmentalization of diffusively coupled oscillators in multisomes induces a novel synchronization scenario. <i>Chemical Communications</i> , 2020, 56, 11771-11774.	2.2	7
86	Thymol-loaded lipid nanovectors from the marine microalga <i>Nannochloropsis</i> sp. as potential antibacterial agents. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 32, 101962.	1.5	7
87	An experimental model for mimicking biological systems. <i>International Journal of Ecodynamics</i> , 2006, 1, 55-63.	0.4	7
88	ESR of spin-labeled cross-linked perfluoropolyethers and properties of adsorbed water. <i>Macromolecules</i> , 1991, 24, 1050-1054.	2.2	6
89	Stability of water-soluble and lipid-soluble paramagnetic probes in <i>Bacillus subtilis</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1998, 1425, 387-397.	1.1	6
90	Complexation of short ds RNA/DNA oligonucleotides with Gemini micelles: a time resolved SAXS and computational study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3046-3055.	1.3	6

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91	A new method for the direct tracking of in vivo lignin nanocapsules in Eragrostis tef (Poaceae) tissues. <i>European Journal of Histochemistry</i> , 2020, 64, .	0.6	6
92	Structure and mobility of vanadyl(2+) ion in water adsorbed onto silica gels studied by X- and S-band electron spin resonance spectroscopy and by electron nuclear double resonance spectroscopy. <i>Langmuir</i> , 1991, 7, 755-759.	1.6	5
93	ESR Probes for the Study of the Aggregational Behavior of Perfluoropolyether Surfactants and of the Physical Status of Interlamellar Water. 2. Mn(II) Probe. <i>The Journal of Physical Chemistry</i> , 1995, 99, 17886-17890.	2.9	5
94	Macroscopic Dynamics as Reporter of Mesoscopic Organization: The BelousovâˆŽhabotinsky Reaction in Aqueous Layers of DPPC Lamellar Phases. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3227-3232.	1.1	5
95	Boron concentration measurements by alpha spectrometry and quantitative neutron autoradiography in cells and tissues treated with different boronated formulations and administration protocols. <i>Applied Radiation and Isotopes</i> , 2014, 88, 78-80.	0.7	5
96	Exploring the water/oil/water interface of phospholipid stabilized double emulsions by micro-focusing synchrotron SAXS. <i>RSC Advances</i> , 2019, 9, 33429-33435.	1.7	5
97	Electron spin echo decays of nitroxide solutions adsorbed on zeolites. <i>Colloids and Surfaces</i> , 1990, 45, 145-153.	0.9	4
98	Magnetic resonance study on lamellar phases of ammonium perfluorooctanoate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1993, 80, 113-120.	2.3	4
99	ESR Spectroscopy of Metal Bis(2-ethylhexyl) Sulfosuccinate Aggregates in Cyclohexane. <i>The Journal of Physical Chemistry</i> , 1995, 99, 3939-3942.	2.9	4
100	ESR Probes for the Study of the Aggregational Behavior of Perfluoropolyether Surfactants and of the Physical Status of Interlamellar Water. 1. Cu(II) Probe. <i>The Journal of Physical Chemistry</i> , 1995, 99, 9876-9881.	2.9	4
101	Cu(II) complexes in bacterial growth medium: electron spin resonance study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2000, 56, 341-349.	2.0	4
102	On the carrier properties of perfluoropolyetherâ€“betaine mixed vesicles: the contribution of electron spin resonance spectroscopy. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 253-259.	0.9	3
103	Spectroscopic characterization of lyotropic phases of perfluoropolyether derivatives. , 1993, , 337-340.		2
104	Signal Transduction and Communication Through Model Membranes in Networks of Coupled Chemical Oscillators. <i>Communications in Computer and Information Science</i> , 2018, , 16-31.	0.4	2
105	Tip Streaming of a Lipid-Stabilized Double Emulsion Generated in a Microfluidic Channel. <i>Langmuir</i> , 2021, 37, 7442-7448.	1.6	2
106	DOTAP/DOPE and DC-Chol/DOPE lipoplexes for gene delivery: zeta potential measurements and electron spin resonance spectra. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1664, 70-70.	1.4	1
107	Characterization of carriers for drug delivery in boron neutron capture therapy. Electron spin resonance study of nitroxide-containing liposomes. , 2004, , 146-150.		0
108	Taking the Students to the Landfillâ€”The Role of Universities in Disseminating Knowledge About Waste Management. <i>World Sustainability Series</i> , 2019, , 549-557.	0.3	0