

Barbara Rossi

List of Publications by Year in descending order

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49
papers

1,061
citations

430874

18
h-index

434195

31
g-index

51
all docs

51
docs citations

51
times ranked

1437
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Ti Speciation on Catalytic Performance of TS-1 in the Hydrogen Peroxide to Propylene Oxide Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9021-9034.	3.1	70
2	Episodic records of jellyfish ingestion of plastic items reveal a novel pathway for trophic transference of marine litter. <i>Scientific Reports</i> , 2018, 8, 6105.	3.3	68
3	Investigation on the Electronic and Optical Properties of Short Oxidized Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11068-11073.	3.1	63
4	Anomalous diffusion of Ibuprofen in cyclodextrin nanosponge hydrogels: an HRMAS NMR study. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2715-2723.	2.2	59
5	Networking Properties of Cyclodextrin-Based Cross-Linked Polymers Probed by Inelastic Light-Scattering Experiments. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5323-5327.	2.6	58
6	Lyotropic Liquid-Crystalline Nanosystems as Drug Delivery Agents for 5-Fluorouracil: Structure and Cytotoxicity. <i>Langmuir</i> , 2017, 33, 12369-12378.	3.5	56
7	Vibrational properties of ibuprofen-cyclodextrin inclusion complexes investigated by Raman scattering and numerical simulation. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 453-458.	2.5	47
8	Tuning structural parameters for the optimization of drug delivery performance of cyclodextrin-based nanosponges. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 331-340.	5.0	46
9	Oxidative damage in DNA bases revealed by UV resonant Raman spectroscopy. <i>Analyst, The</i> , 2015, 140, 1477-1485.	3.5	41
10	Modelling the interplay between covalent and physical interactions in cyclodextrin-based hydrogel: effect of water confinement. <i>Soft Matter</i> , 2013, 9, 6457.	2.7	39
11	Structure of human telomere G-quadruplex in the presence of a model drug along the thermal unfolding pathway. <i>Nucleic Acids Research</i> , 2018, 46, 11927-11938.	14.5	31
12	Direct evidence of gel-sol transition in cyclodextrin-based hydrogels as revealed by FTIR-ATR spectroscopy. <i>Soft Matter</i> , 2014, 10, 2320-2326.	2.7	29
13	Synthesis and characterization of a hyper-branched water-soluble β -cyclodextrin polymer. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2586-2593.	2.2	28
14	Vibrational Density of States and Elastic Properties of Cross-Linked Polymers: Combining Inelastic Light and Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2014, 118, 624-633.	2.6	27
15	Water and polymer dynamics in a model polysaccharide hydrogel: the role of hydrophobic/hydrophilic balance. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 963-971.	2.8	27
16	In Competition for Water: Hydrated Choline Chloride:Urea vs Choline Acetate:Urea Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12262-12273.	6.7	26
17	The effect of hydrogen bond on the vibrational dynamics of genistein free and complexed with β -cyclodextrins. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 764-770.	2.5	24
18	Hydrogen-bond dynamics of water confined in cyclodextrin nanosponges hydrogel. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 80, 69-75.	1.6	23

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19	Dynamics and interactions of ibuprofen in cyclodextrin nanosponges by solid-state NMR spectroscopy. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 182-194.	2.2	19
20	Toward an understanding of the thermosensitive behaviour of pH-responsive hydrogels based on cyclodextrins. <i>Soft Matter</i> , 2015, 11, 5862-5871.	2.7	18
21	Polymorphism of human telomeric quadruplexes with drugs: a multi-technique biophysical study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11583-11592.	2.8	18
22	Hydrogen bonding dynamics of cyclodextrin-water solutions by depolarized light scattering. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1479-1483.	2.5	17
23	Thermal fluctuations in chemically cross-linked polymers of cyclodextrins. <i>Soft Matter</i> , 2015, 11, 2183-2192.	2.7	17
24	Gel-sol evolution of cyclodextrin-based nanosponges: role of the macrocycle size. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 80, 77-83.	1.6	15
25	SANS investigation of water adsorption in tunable cyclodextrin-based polymeric hydrogels. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6022-6029.	2.8	15
26	Aqueous solvation of glutathione probed by UV resonance Raman spectroscopy. <i>Journal of Molecular Liquids</i> , 2019, 283, 537-547.	4.9	14
27	Probing the molecular connectivity of water confined in polymer hydrogels. <i>Journal of Chemical Physics</i> , 2015, 142, 014901.	3.0	13
28	Correlation between collective and molecular dynamics in pH-responsive cyclodextrin-based hydrogels. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22555-22563.	2.8	13
29	Hydration properties and water structure in aqueous solutions of native and modified cyclodextrins by $UV\ Raman$ and Brillouin scattering. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1076-1085.	2.5	13
30	Guest-matrix interactions affect the solvation of cyclodextrin-based polymeric hydrogels: a UV Raman scattering study. <i>Soft Matter</i> , 2016, 12, 8861-8868.	2.7	11
31	Synchrotron-based ultraviolet resonance Raman scattering for material science. , 2020, , 447-482.		11
32	Nanostructured liquid crystalline particles as delivery vectors for isofuranodiene: Characterization and in-vitro anticancer activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 192, 111050.	5.0	11
33	Vibrational signatures of the water behaviour upon confinement in nanoporous hydrogels. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12252-12259.	2.8	10
34	Amide Spectral Fingerprints are Hydrogen Bonding-Mediated. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6200-6207.	4.6	9
35	Base-specific pre-melting and melting transitions of DNA in presence of ionic liquids probed by synchrotron-based UV resonance Raman scattering. <i>Journal of Molecular Liquids</i> , 2021, 330, 115433.	4.9	8
36	The quality is in the eye of the beholder: The perspective of FTIR and UV resonant Raman spectroscopies on extracted nucleic acids. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1056-1065.	2.5	7

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37	Synchrotron Characterization of Hexagonal and Cubic Lipidic Phases Loaded with Azolate/Phosphane Gold(I) Compounds: A New Approach to the Uploading of Gold(I)-Based Drugs. <i>Nanomaterials</i> , 2020, 10, 1851.	4.1	7
38	Solute-Solvent Interactions in Aqueous Solutions of Sulfobutyl Ether- β -cyclodextrin As Probed by UV-Raman and FTIR-ATR Analysis. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3746-3753.	2.6	6
39	Structural and molecular response in cyclodextrin-based pH-sensitive hydrogels by the joint use of Brillouin, UV Raman and Small Angle Neutron Scattering techniques. <i>Journal of Molecular Liquids</i> , 2018, 271, 738-746.	4.9	6
40	Insight into the thermal stability of DNA in hydrated ionic liquids from multi-wavelength UV resonance Raman experiments. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15980-15988.	2.8	6
41	Effect of Hydrated Deep Eutectic Solvents on the Thermal Stability of DNA. <i>Crystals</i> , 2021, 11, 1057.	2.2	6
42	Single-atom substitution enables supramolecular diversity from dipeptide building blocks. <i>Soft Matter</i> , 2022, 18, 2129-2136.	2.7	6
43	Vibrational Properties of Cyclodextrin-Water Solutions Investigated by Low-Frequency Raman Scattering: Temperature and Concentration Effects. <i>Food Biophysics</i> , 2011, 6, 227-232.	3.0	5
44	Dispersions of Zirconia Nanoparticles Close to the Phase Boundary of Surfactant-Free Ternary Mixtures. <i>Langmuir</i> , 2021, 37, 4072-4081.	3.5	5
45	Interfacial Water and Microheterogeneity in Aqueous Solutions of Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4299-4308.	2.6	5
46	Solvent Vibrations as a Proxy of the Telomere G-Quadruplex Rearrangements across Thermal Unfolding. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5123.	4.1	4
47	Hydrogen Bonding and Solvation of a Proline-Based Peptide Model in Salt Solutions. <i>Life</i> , 2021, 11, 824.	2.4	2
48	GISR 2017: Present and future of Raman researches in Italy. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 909-912.	2.5	1
49	UV Resonance Raman Spectroscopy of weakly hydrogen-bonded water in the liquid phase and on ice and snow surfaces. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	0