Franca Castiglione

List of Publications by Year
in descending order

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81 papers	2,522 citations	201674 27 h-index	214800 47 g-index
82 all docs	82 docs citations	82 times ranked	3079 citing authors

#	Article	IF	Citations
1	Interaction of Water with the Model Ionic Liquid [bmim][BF₄]: Molecular Dynamics Simulations and Comparison with NMR Data. Journal of Physical Chemistry B, 2008, 112, 7826-7836.	2.6	231
2	Determining the Structure and Mode of Action of Microbisporicin, a Potent Lantibiotic Active Against Multiresistant Pathogens. Chemistry and Biology, 2008, 15, 22-31.	6.0	196
3	Molecular Environment and Enhanced Diffusivity of Li⁺ Ions in Lithium-Salt-Doped Ionic Liquid Electrolytes. Journal of Physical Chemistry Letters, 2011, 2, 153-157.	4.6	134
4	Structural Organization and Transport Properties of Novel Pyrrolidinium-Based Ionic Liquids with Perfluoroalkyl Sulfonylimide Anions. Journal of Physical Chemistry B, 2009, 113, 10750-10759.	2.6	102
5	A Novel Lantibiotic Acting on Bacterial Cell Wall Synthesis Produced by the Uncommon Actinomycete Planomonospora sp.. Biochemistry, 2007, 46, 5884-5895.	2.5	83
6	HR MAS NMR, powder XRD and Raman spectroscopy study of inclusion phenomena in Î²CD nanosponges. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2011, 69, 403-409.	1.6	82
7	Smart Approach To Evaluate Drug Diffusivity in Injectable Agarâ˜Carbomer Hydrogels for Drug Delivery. Journal of Physical Chemistry B, 2011, 115, 2503-2510.	2.6	79
8	Linking the structures, free volumes, and properties of ionic liquid mixtures. Chemical Science, 2017, 8, 6359-6374.	7.4	74
9	Mesoscopic structural organization in triphilic room temperature ionic liquids. Faraday Discussions, 2013, 167, 499.	3.2	73
10	Blending ionic liquids: how physico-chemical properties change. Physical Chemistry Chemical Physics, 2010, 12, 1784.	2.8	69
11	Pyrrolidinium-Based Ionic Liquids Doped with Lithium Salts: How Does Li⁺ Coordination Affect Its Diffusivity?. Journal of Physical Chemistry B, 2014, 118, 13679-13688.	2.6	63
12	Anomalous diffusion of Ibuprofen in cyclodextrin nanosponge hydrogels: an HRMAS NMR study. Beilstein Journal of Organic Chemistry, 2014, 10, 2715-2723.	2.2	59
13	Networking Properties of Cyclodextrin-Based Cross-Linked Polymers Probed by Inelastic Light-Scattering Experiments. Journal of Physical Chemistry B, 2012, 116, 5323-5327.	2.6	58
14	Effect of Water on Deep Eutectic Solvent/Î²-Cyclodextrin Systems. ACS Sustainable Chemistry and Engineering, 2019, 7, 7277-7285.	6.7	52
15	Effect of Cross-Linking Properties on the Vibrational Dynamics of Cyclodextrins-Based Polymers: An Experimentalâ€“Numerical Study. Journal of Physical Chemistry B, 2012, 116, 7952-7958.	2.6	50
16	Pyrazolium- versus Imidazolium-Based Ionic Liquids: Structure, Dynamics and Physicochemical Properties. Journal of Physical Chemistry B, 2013, 117, 668-676.	2.6	49
17	Competitive and Synergistic Interactions between Polymer Micelles, Drugs, and Cyclodextrins: The Importance of Drug Solubilization Locus. Langmuir, 2016, 32, 13174-13186.	3.5	46
18	Phase-controlled supramolecular photochirogenesis in cyclodextrin nanosponges. Chemical Communications, 2013, 49, 3510.	4.1	44

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19	Polymer hydrogel functionalized with biodegradable nanoparticles as composite system for controlled drug delivery. Nanotechnology, 2015, 26, 015602.	2.6	40
20	TEMPO-Nanocellulose/Ca2+ Hydrogels: Ibuprofen Drug Diffusion and In Vitro Cytocompatibility. Materials, 2020, 13, 183.	2.9	37
21	Cyclodextrin nanosponge-sensitized enantiodifferentiating photoisomerization of cyclooctene and 1,3-cyclooctadiene. Beilstein Journal of Organic Chemistry, 2012, 8, 1305-1311.	2.2	36
22	Aza[6]helicene Platinum Complexes: Chirality Control of cisâ€“trans Isomerism. Angewandte Chemie - International Edition, 2014, 53, 5786-5790.	13.8	35
23	Inside New Materials: An Experimental Numerical Approach for the Structural Elucidation of Nanoporous Cross-Linked Polymers. Journal of Physical Chemistry B, 2012, 116, 13133-13140.	2.6	33
24	Cage-Like Local Structure of Ionic Liquids Revealed by a ¹²⁹Xe Chemical Shift. Journal of Physical Chemistry Letters, 2013, 4, 1608-1612.	4.6	31
25	Influence of oligo(ethylene oxide) substituents on pyrrolidinium-based ionic liquid properties, Li⁺ solvation and transport. Physical Chemistry Chemical Physics, 2016, 18, 21539-21547.	2.8	29
26	Synthesis and Preliminary Biological Characterization of New Semisynthetic Derivatives of Ramoplanin. Journal of Medicinal Chemistry, 2007, 50, 3077-3085.	6.4	28
27	Spectroscopic and Structural Investigation of the Confinement of <scp>d</scp> and <scp>l</scp> Dimethyl Tartrate in Lecithin Reverse Micelles. Journal of Physical Chemistry B, 2009, 113, 3024-3033.	2.6	28
28	Vibrational spectroscopy investigation of swelling phenomena in cyclodextrin nanosponges. Journal of Raman Spectroscopy, 2013, 44, 1463-1469.	2.5	28
29	Synthesis and characterization of a hyper-branched water-soluble Î²-cyclodextrin polymer. Beilstein Journal of Organic Chemistry, 2014, 10, 2586-2593.	2.2	28
30	Water and polymer dynamics in a model polysaccharide hydrogel: the role of hydrophobic/hydrophilic balance. Physical Chemistry Chemical Physics, 2015, 17, 963-971.	2.8	27
31	Do Cyclodextrins Encapsulate Volatiles in Deep Eutectic Systems?. ACS Sustainable Chemistry and Engineering, 2019, 7, 17397-17405.	6.7	26
32	Understanding Cage Effects in Imidazolium Ionic Liquids by ¹²⁹Xe NMR: MD Simulations and Relativistic DFT Calculations. Journal of Physical Chemistry B, 2014, 118, 13963-13968.	2.6	24
33	Drugâ€“Polymer Interactions in Hydrogelâ€based Drugâ€Delivery Systems: An Experimental and Theoretical Study. ChemPhysChem, 2015, 16, 2818-2825.	2.1	23
34	From Nanoscale to Microscale: Crossover in the Diffusion Dynamics within Two Pyrrolidinium-Based Ionic Liquids. Journal of Physical Chemistry Letters, 2017, 8, 5196-5202.	4.6	23
35	Investigation of Li+ Cation Coordination and Transportation, by Molecular Modeling and NMR Studies, in a LiNTf2-Doped Ionic Liquidâ€“Vinylene Carbonate Mixture. Journal of Physical Chemistry B, 2018, 122, 8560-8569.	2.6	23
36	Drug Release from Hydrogel: A New Understanding of Transport Phenomena. Journal of Biomedical Nanotechnology, 2011, 7, 476-481.	1.1	22

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37	Multiple points of view of heteronuclear NOE: Long range vs short range contacts in pyrrolidinium based ionic liquids in the presence of Li salts. Journal of Molecular Liquids, 2015, 210, 215-222.	4.9	21
38	On the structural origin of free volume in 1-alkyl-3-methylimidazolium ionic liquid mixtures: a SAXS and 129Xe NMR study. Physical Chemistry Chemical Physics, 2019, 21, 5999-6010.	2.8	21
39	Spectral deconvolution in electrophoretic NMR to investigate the migration of neutral molecules in electrolytes. Magnetic Resonance in Chemistry, 2020, 58, 271-279.	1.9	21
40	Effective magnetic moment in cyclodextrinâ€“polynitroxides: potential supramolecular vectors for magnetic resonance imaging. RSC Advances, 2015, 5, 76133-76140.	3.6	19
41	Dynamics and interactions of ibuprofen in cyclodextrin nanosponges by solid-state NMR spectroscopy. Beilstein Journal of Organic Chemistry, 2017, 13, 182-194.	2.2	19
42	Anions as Dynamic Probes for Ionic Liquid Mixtures. Journal of Physical Chemistry B, 2020, 124, 2879-2891.	2.6	19
43	Selective Interaction of 2,6-Di-O-methyl-Î²-cyclodextrin and Pluronic F127 Micelles Leading to Micellar Rupture: A Nuclear Magnetic Resonance Study. Journal of Physical Chemistry B, 2011, 115, 9005-9013.	2.6	17
44	Î²-Cyclodextrin Nanosponge Hydrogels as Drug Delivery Nanoarchitectonics for Multistep Drug Release Kinetics. ACS Applied Polymer Materials, 2021, 3, 6562-6571.	4.4	17
45	Combining Raman and infrared spectroscopy as a powerful tool for the structural elucidation of cyclodextrin-based polymeric hydrogels. Physical Chemistry Chemical Physics, 2015, 17, 10274-10282.	2.8	16
46	Non-destructive and direct determination of the degree of substitution of carboxymethyl cellulose by HR-MAS 13C NMR spectroscopy. Carbohydrate Polymers, 2017, 169, 16-22.	10.2	16
47	The structure of ethylbenzene as a solute in liquid crystalline solvents via analysis of proton NMR spectra. Physical Chemistry Chemical Physics, 2000, 2, 3405-3413.	2.8	14
48	The Role of Drugâ€“Drug Interactions in Hydrogel Delivery Systems: Experimental and Model Study. ChemPhysChem, 2016, 17, 1615-1622.	2.1	14
49	NMR Metabolomics for Stem Cell type discrimination. Scientific Reports, 2017, 7, 15808.	3.3	14
50	Organic Peracids: A Structural Puzzle for ¹⁷O NMR and Ab Initio Chemical Shift Calculations. Journal of Physical Chemistry A, 2012, 116, 1814-1819.	2.5	13
51	Quantum Mechanics Calculations, Basicity and Crystal Structure: The Route to Transition Metal Complexes of Azahelicenes. Molecules, 2012, 17, 463-479.	3.8	13
52	A molecular dynamics study of cyclodextrin nanosponge models. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2013, 75, 263-268.	1.6	13
53	Polydisperse methyl Î²-cyclodextrinâ€“epichlorohydrin polymers: variable contact time ¹³C CP-MAS solid-state NMR characterization. Beilstein Journal of Organic Chemistry, 2015, 11, 2785-2794.	2.2	13
54	Synthesis and Structural Properties of Aza[n]helicene Platinum Complexes: Control of Cis and Trans Stereochemistry. Inorganic Chemistry, 2016, 55, 2009-2017.	4.0	13

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55	Evidence of superdiffusive nanoscale motion in anionic polymeric hydrogels: Analysis of PGSE- NMR data and comparison with drug release properties. Journal of Controlled Release, 2019, 305, 110-119.	9.9	13
56	Xenon Dynamics in Ionic Liquids: A Combined NMR and MD Simulation Study. Journal of Physical Chemistry B, 2020, 124, 6617-6627.	2.6	12
57	Chiroptical Phenomena in Reverse Micelles: The Case of (1R,2S)â€Dodecyl (2â€hydroxyâ€1â€methylâ€2â€phenylethyl)dimethylammonium Bromide (DMEB). Chirality, 2014, 26, 532-538.	2.6	11
58	Assessing the mechanism of the synergistic action of calixarenes and Co-dicarbollides in lanthanide extractions. New Journal of Chemistry, 2010, 34, 2552.	2.8	10
59	Measurement of dipolar couplings in partially oriented molecules by local field NMR spectroscopy with low-power decoupling. Journal of Magnetic Resonance, 2002, 158, 52-59.	2.1	8
60	Spectroscopic characterization of red perylimide/surfactant nanocomposites. Journal of Materials Science, 2011, 46, 6402-6407.	3.7	8
61	Computational 17O-NMRspectroscopy of organic acids and peracids: comparison of solvation models. Physical Chemistry Chemical Physics, 2013, 15, 1130-1140.	2.8	8
62	On the parallelism between the mechanisms behind chromatography and drug delivery: the role of interactions with a stationary phase. Physical Chemistry Chemical Physics, 2017, 19, 11518-11528.	2.8	8
63	Magnetic Resonance Imaging and Molecular Dynamics Characterization of Ionic Liquid in Poly(ethylene oxide)-Based Polymer Electrolytes. ACS Applied Materials & Interfaces, 2020, 12, 23800-23811.	8.0	8
64	Selective excitation in dipole coupled systems. Chemical Physics Letters, 2002, 357, 241-248.	2.6	7
65	MD simulation of xenon in ionic liquids: Disentangling the cationic and anionic cage effects on the structural and dynamic properties. Journal of Molecular Liquids, 2015, 210, 272-278.	4.9	7
66	17O NMR. Annual Reports on NMR Spectroscopy, 2015, 85, 143-193.	1.5	7
67	Transport Properties of Ibuprofen Encapsulated in Cyclodextrin Nanosponge Hydrogels: A Proton HR-MAS NMR Spectroscopy Study. Journal of Visualized Experiments, 2016, , .	0.3	7
68	Mechanochemical synthesis of mechanical bonds in M12L8 poly-[n]-catenanes. Dalton Transactions, 2021, 51, 53-58.	3.3	7
69	Association and Diffusion of Li⁺ in Carboxymethylcellulose Solutions for Environmentally Friendly Liâ€ion Batteries. ChemSusChem, 2016, 9, 1804-1813.	6.8	6
70	Xenon Diffusion in Ionic Liquids with Blurred Nanodomain Separation. ChemPhysChem, 2021, 22, 1880-1890.	2.1	6
71	The Intermolecular NOE Depends on Isotope Selection: Short Range vs Long Range Behavior. Journal of Physical Chemistry Letters, 2021, 12, 8658-8663.	4.6	6
72	The use of heteronuclear multiple quantum spectra in the automatic analysis of NMR spectra of samples dissolved in liquid crystalline phases. Liquid Crystals, 2001, 28, 1403-1413.	2.2	4

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73	Biphasic Porous Structures formed by Monomer/Water Interface Stabilization with Colloidal Nanoparticles. Advanced Materials Interfaces, 2021, 8, 2100991.	3.7	4
74	Selfâ€assembly and intraâ€cluster reactions of erbium and ytterbium bis(2â€ethylhexyl)sulfosuccinates in the gas phase. Rapid Communications in Mass Spectrometry, 2014, 28, 2523-2530.	1.5	3
75	Synthesis of Chiral Ionic Liquids from Natural Monosaccharides. European Journal of Organic Chemistry, 2022, 2022, .	2.4	3
76	NMR Analysis of Unnatural Amino Acids in Natural Antibiotics. Methods in Molecular Biology, 2012, 794, 107-124.	0.9	2
77	Frontispiece: Aza[6]helicene Platinum Complexes: Chirality Control ofcis-transIsomerism. Angewandte Chemie - International Edition, 2014, 53, n/a-n/a.	13.8	0
78	Frontispiz: Aza[6]helicene Platinum Complexes: Chirality Control ofcis-transIsomerism. Angewandte Chemie, 2014, 126, n/a-n/a.	2.0	0
79	NMR on ionic liquids. , 2016, , 233-258.		0
80	HR-MAS NMR Spectroscopy: novel technologies to measure delivery performance. , 2020, , 83-107.		0
81	Biphasic Porous Structures formed by Monomer/Water Interface Stabilization with Colloidal Nanoparticles (Adv. Mater. Interfaces 21/2021). Advanced Materials Interfaces, 2021, 8, 2170119.	3.7	0