

Marco Paolantoni

List of Publications by Year in descending order

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91
papers

2,147
citations

201385

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276539

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times ranked

2092
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen bond dynamics and water structure in glucose-water solutions by depolarized Rayleigh scattering and low-frequency Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2007, 127, 024504.	1.2	101
2	More Is Different: Experimental Results on the Effect of Biomolecules on the Dynamics of Hydration Water. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1188-1192.	2.1	71
3	Vibrational Analysis of Molecular Interactions in Aqueous Glucose Solutions. Temperature and Concentration Effects. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8856-8864.	1.2	68
4	UV-Vis-NIR and micro Raman spectroscopies for the non destructive identification of Cd ²⁺ x Zn x S solid solutions in cadmium yellow pigments. <i>Microchemical Journal</i> , 2016, 124, 856-867.	2.3	68
5	Tetrahedral Ordering in Water: Raman Profiles and Their Temperature Dependence. <i>Journal of Physical Chemistry A</i> , 2009, 113, 15100-15105.	1.1	66
6	Broadband Depolarized Light Scattering Study of Diluted Protein Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8262-8269.	1.2	62
7	Spectroscopic studies of the ν_{OH} stretching bands in liquid alcohols. <i>Journal of Molecular Liquids</i> , 2006, 125, 139-146.	2.3	59
8	Hydration and Aggregation in Mono- and Disaccharide Aqueous Solutions by Gigahertz-to-Terahertz Light Scattering and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14760-14767.	1.2	59
9	Modulation of Hydrophobic Effect by Cosolutes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21077-21085.	1.2	58
10	Molecular properties of aqueous solutions: a focus on the collective dynamics of hydration water. <i>Soft Matter</i> , 2016, 12, 5501-5514.	1.2	57
11	Light Scattering Spectra of Water in Trehalose Aqueous Solutions: Evidence for Two Different Solvent Relaxation Processes. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7874-7878.	1.2	56
12	Dynamics of Biological Water: Insights from Molecular Modeling of Light Scattering in Aqueous Trehalose Solutions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7499-7508.	1.2	51
13	Unfolding and aggregation of lysozyme: A thermodynamic and kinetic study by FTIR spectroscopy. <i>Biophysical Chemistry</i> , 2011, 158, 46-53.	1.5	50
14	Water/Alcohol Mixtures: A Spectroscopic Study of the Water-Saturated 1-Octanol Solution. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19557-19565.	1.2	47
15	Comparison of Hydrogen Bonding in 1-Octanol and 2-Octanol as Probed by Spectroscopic Techniques. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18017-18025.	1.2	47
16	Extended Frequency Range Depolarized Light Scattering Study of <i>N</i> -Acetyl-leucine-methylamide-Water Solutions. <i>Journal of the American Chemical Society</i> , 2011, 133, 12063-12068.	6.6	44
17	High-Performance Versatile Setup for Simultaneous Brillouin-Raman Microspectroscopy. <i>Physical Review X</i> , 2017, 7, .	2.8	44
18	Structural and dynamical properties of glucose aqueous solutions by depolarized Rayleigh scattering. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 238-243.	1.2	43

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19	Separate dynamics of solute and solvent in waterâ€“glucose solutions by depolarized light scattering. <i>Chemical Physics Letters</i> , 2007, 441, 232-236.	1.2	42
20	Infrared study of 1-octanol liquid structure. <i>Chemical Physics</i> , 2005, 310, 169-178.	0.9	41
21	New Insights on the Incorporation of Lanthanide Ions into Nanosized Layered Double Hydroxides. <i>Inorganic Chemistry</i> , 2012, 51, 13229-13236.	1.9	41
22	Distributions of H-Bonding Aggregates in tert-Butyl Alcohol: The Pure Liquid and Its Alkane Mixtures. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6020-6027.	1.1	32
23	Rotational dynamics of trehalose in aqueous solutions studied by depolarized light scattering. <i>Journal of Chemical Physics</i> , 2010, 132, 214508.	1.2	32
24	DMSO-induced perturbation of thermotropic properties of cholesterol-containing DPPC liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 3024-3031.	1.4	32
25	Polarizability anisotropy relaxation in liquid ethanol: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2002, 117, 3856-3873.	1.2	31
26	Denaturation and Preservation of Globular Proteins: The Role of DMSO. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13361-13367.	1.2	31
27	Raman noncoincidence effect on OH stretching profiles in liquid alcohols. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 528-537.	1.2	29
28	Hydrophobic hydration of tert-butyl alcohol studied by Brillouin light and inelastic ultraviolet scattering. <i>Journal of Chemical Physics</i> , 2011, 134, 055104.	1.2	28
29	The interplay between the paracetamol polymorphism and its molecular structures dissolved in supercritical CO ₂ in contact with the solid phase: In situ vibration spectroscopy and molecular dynamics simulation analysis. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 77, 48-59.	1.9	27
30	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.	3.2	26
31	Hydration properties of small hydrophobic molecules by Brillouin light scattering. <i>Journal of Chemical Physics</i> , 2012, 137, 114509.	1.2	25
32	Vibrational Circular Dichroism Spectra of Lysozyme Solutions: Solvent Effects on Thermal Denaturation Processes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2645-2652.	1.2	25
33	Conformational changes in the unfolding process of lysozyme in water and ethanol/water solutions. <i>Journal of Molecular Liquids</i> , 2011, 159, 112-116.	2.3	24
34	Solvent effect on the vibrational dephasing of the $\hat{\nu}_{22}$ (CN) and $\hat{\nu}_{24}$ (CC) stretching modes in liquid acetonitrile and acetonitrile-d ₃ . <i>Chemical Physics</i> , 2000, 254, 337-347.	0.9	23
35	UVâ€“Vis-NIR and microRaman spectroscopies for investigating the composition of ternary CdS 1âˆ“x Se x solid solutions employed as artists' pigments. <i>Microchemical Journal</i> , 2016, 125, 279-289.	2.3	23
36	Subtracted shifted Raman spectroscopy of organic dyes and lakes. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 452-458.	1.2	22

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37	Evidence of DMSO-Induced Protein Aggregation in Cells. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5065-5070.	1.1	22
38	Low-wavenumber Raman scattering from aqueous solutions of carbohydrates. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 227-232.	1.2	21
39	Study of Raman scattering and luminescence properties of orchil dye for its nondestructive identification on artworks. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1451-1456.	1.2	21
40	Spectroscopic and Microscopic Studies of Aggregation and Fibrillation of Lysozyme in Water/Ethanol Solutions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13009-13017.	1.2	21
41	Structural and dynamical investigations of 1-octanol: a spectroscopic study. <i>Journal of Molecular Liquids</i> , 2002, 96-97, 363-377.	2.3	19
42	Solvent Sharing Models for Non-Interacting Solute Molecules: The Case of Glucose and Trehalose Water Solutions. <i>Food Biophysics</i> , 2013, 8, 177-182.	1.4	19
43	Molecular dynamics of liquid acetone determined by depolarized Rayleigh and low-frequency Raman scattering spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16197.	1.3	18
44	Painting biological low-frequency vibrational modes from small peptides to proteins. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11423-11431.	1.3	18
45	Hydration and aggregation of lysozyme by extended frequency range depolarized light scattering. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 472-477.	1.5	18
46	Heat-induced self-assembling of BSA at the isoelectric point. <i>International Journal of Biological Macromolecules</i> , 2021, 177, 40-47.	3.6	17
47	Non-coincidence effect of aromatic ring vibrations. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 3631-3637.	0.7	15
48	Reversible and irreversible denaturation processes in globular proteins: from collective to molecular spectroscopic analysis. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 273-279.	1.2	15
49	Concentration dependence of hydration water in a model peptide. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12433.	1.3	15
50	Hydrophobic Hydration in Water- <i>t</i> -Butyl Alcohol Solutions by Extended Depolarized Light Scattering. <i>Journal of Physical Chemistry B</i> , 2015, 119, 9236-9243.	1.2	15
51	Cryopreservation of cells: FT-IR monitoring of lipid membrane at freeze-thaw cycles. <i>Biophysical Chemistry</i> , 2016, 208, 34-39.	1.5	15
52	D-leucine microparticles as an excipient to improve the aerosolization performances of dry powders for inhalation. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 130, 54-64.	1.9	14
53	Structural properties of glucose-dimethylsulfoxide solutions probed by Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2009, 130, 164501.	1.2	13
54	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.	1.2	13

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55	Solvation properties of raft-like model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 183052.	1.4	12
56	Aqueous solvation of amphiphilic molecules by extended depolarized light scattering: the case of trimethylamine-N-oxide. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8881-8889.	1.3	11
57	Influence of Dimethyl Sulfoxide on the Low-Temperature Behavior of Cholesterol-Loaded Palmitoyl-oleyl-phosphatidylcholine Membranes. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6396-6402.	1.2	11
58	Amyloid Self-Assembly of Lysozyme in Self-Crowded Conditions: The Formation of a Protein Oligomer Hydrogel. <i>Biomacromolecules</i> , 2021, 22, 1147-1158.	2.6	11
59	Early cardiac-chamber-specific fingerprints in heart failure with preserved ejection fraction detected by FTIR and Raman spectroscopic techniques. <i>Scientific Reports</i> , 2022, 12, 3440.	1.6	11
60	Reorientational dynamics in a liquid organized system: Brillouin and depolarized Rayleigh scattering experiments in 1-octanol. <i>Molecular Physics</i> , 2001, 99, 1493-1502.	0.8	10
61	Structural Properties of 1-Octanol/n-Octane Mixtures Studied by Brillouin Scattering. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6243-6248.	1.1	10
62	Concentration fluctuations and collective properties in mixed liquid systems: Rayleigh-Brillouin spectra of tert-butyl alcohol/2,2-dimethylbutane liquid mixture. <i>Journal of Chemical Physics</i> , 2007, 126, 044505.	1.2	10
63	Hydration and rotational diffusion of levoglucosan in aqueous solutions. <i>Journal of Chemical Physics</i> , 2014, 140, 184505.	1.2	10
64	Trehalose-induced slowdown of lysozyme hydration dynamics probed by EDLS spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 151, 015101.	1.2	10
65	Interpreting technical evidence from spectral imaging of paintings by Eugène Delacroix in the Courtauld Gallery. <i>X-Ray Spectrometry</i> , 2019, 48, 282-292.	0.9	10
66	Non-coincidence effect and orientational dynamics in aromatic molecules. <i>Molecular Physics</i> , 2002, 100, 3677-3690.	0.8	9
67	Trans-gauche isomerization in 1-octanol probed by Brillouin scattering spectroscopy. <i>Chemical Physics Letters</i> , 2002, 357, 293-296.	1.2	9
68	Recovery of the depolarization ratio of single lines from overlapping isotropic and anisotropic Raman profiles and assignment of molecular vibrations, with special reference to toluene and toluene-d8. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 383-388.	1.2	9
69	A study of collective motions in liquid tert-butanol from low-wavenumber Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1279-1283.	1.2	9
70	Heat-Denatured Lysozyme Aggregation and Gelation As Revealed by Combined Dielectric Relaxation Spectroscopy and Light Scattering Measurements. <i>Journal of Physical Chemistry B</i> , 2012, 116, 10779-10785.	1.2	8
71	Water-like Behavior of Formamide: Jump Reorientation Probed by Extended Depolarized Light Scattering. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 120-125.	2.1	8
72	Free volume and dynamics in a lipid bilayer. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23169-23178.	1.3	8

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73	Possible spectroscopic manifestation of the angular group induced bond alteration (AGIBA) effect in toluene. <i>Journal of Physical Organic Chemistry</i> , 2007, 20, 568-573.	0.9	7
74	Density fluctuations of water-glucose mixtures studied by inelastic ultra-violet scattering. <i>Philosophical Magazine</i> , 2008, 88, 3991-3998.	0.7	7
75	Myelography Iodinated Contrast Media. I. Unraveling the Atropisomerism Properties in Solution. <i>Molecular Pharmaceutics</i> , 2015, 12, 1939-1950.	2.3	6
76	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.	2.3	6
77	Protein Hydration in a Bioprotecting Mixture. <i>Life</i> , 2021, 11, 995.	1.1	6
78	Elucidating the Association of Water in Wet 1-Octanol from Normal to High Temperature by Near- and Mid-Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9085-9093.	1.2	5
79	Volume properties and spectroscopy: A terahertz Raman investigation of hen egg white lysozyme. <i>Journal of Chemical Physics</i> , 2013, 139, 225101.	1.2	5
80	Comparative label-free proteomic analysis of equine osteochondrotic chondrocytes. <i>Journal of Proteomics</i> , 2020, 228, 103927.	1.2	5
81	A combined theoretical and experimental investigation of the electronic and vibrational properties of red lead pigment. <i>Journal of Cultural Heritage</i> , 2020, 46, 374-381.	1.5	5
82	Interfacial Water and Microheterogeneity in Aqueous Solutions of Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4299-4308.	1.2	5
83	Complex Dynamical Aspects of Organic Electrolyte Solutions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 215-225.	1.2	4
84	Myelography Iodinated Contrast Media. 2. Conformational Versatility of Iopamidol in the Solid State. <i>Molecular Pharmaceutics</i> , 2017, 14, 468-477.	2.3	4
85	New evidence for non-coincidence effects in alcohols. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 267-268.	1.2	3
86	Glioblastoma single-cell microRaman analysis under stress treatments. <i>Scientific Reports</i> , 2018, 8, 7979.	1.6	3
87	Scientific analysis underpinning the multidisciplinary project "The Lemman Album: an Enhanced Facsimile". <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	3
88	Microscale mechanochemical characterization of drying oil films by in situ correlative Brillouin and Raman spectroscopy. <i>Science Advances</i> , 2022, 8, .	4.7	2
89	Hydration Dynamics of Model Peptides with Different Hydrophobic Character. <i>Life</i> , 2022, 12, 572.	1.1	1
90	Structural Order in Water: Comparison between the Spectral Analysis of Raman Data and Molecular Dynamics Results. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0

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91	Impact of dimethyl sulfoxide and natural lipid heterogeneity on the structural properties of sphingomyelin membranes. <i>Vibrational Spectroscopy</i> , 2020, 109, 103101.	1.2	0