

# Assunta Morresi

## List of Publications by Year in descending order

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107  
papers

2,327  
citations

172457

29  
h-index

265206

42  
g-index

107  
all docs

107  
docs citations

107  
times ranked

2195  
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.	3.0	101
2	Natural small molecules as inhibitors of coronavirus lipid-dependent attachment to host cells: a possible strategy for reducing SARS-COV-2 infectivity?. <i>Acta Biomedica</i> , 2020, 91, 161-164.	0.3	89
3	Vibrational relaxation processes in isotropic molecular liquids. A critical comparison. <i>Journal of Raman Spectroscopy</i> , 1995, 26, 179-216.	2.5	78
4	Spectroscopic investigation of yellow majolica glazes. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 61-67.	2.5	77
5	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.	4.6	71
6	Vibrational Analysis of Molecular Interactions in Aqueous Glucose Solutions. Temperature and Concentration Effects. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8856-8864.	2.6	68
7	Broadband Depolarized Light Scattering Study of Diluted Protein Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8262-8269.	2.6	62
8	Spectroscopic studies of the $\nu_{OH}$ stretching bands in liquid alcohols. <i>Journal of Molecular Liquids</i> , 2006, 125, 139-146.	4.9	59
9	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.	2.6	59
10	Molecular properties of aqueous solutions: a focus on the collective dynamics of hydration water. <i>Soft Matter</i> , 2016, 12, 5501-5514.	2.7	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.	2.6	56
12	Unfolding and aggregation of lysozyme: A thermodynamic and kinetic study by FTIR spectroscopy. <i>Biophysical Chemistry</i> , 2011, 158, 46-53.	2.8	50
13	Water/Alcohol Mixtures: A Spectroscopic Study of the Water-Saturated 1-Octanol Solution. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19557-19565.	2.6	47
14	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.	2.6	47
15	Extended Frequency Range Depolarized Light Scattering Study of $N$ -Acetyl-leucine-methylamide-Water Solutions. <i>Journal of the American Chemical Society</i> , 2011, 133, 12063-12068.	13.7	44
16	High-Performance Versatile Setup for Simultaneous Brillouin-Raman Microspectroscopy. <i>Physical Review X</i> , 2017, 7, .	8.9	44
17	Structural and dynamical properties of glucose aqueous solutions by depolarized Rayleigh scattering. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 238-243.	2.5	43
18	Separate dynamics of solute and solvent in water-glucose solutions by depolarized light scattering. <i>Chemical Physics Letters</i> , 2007, 441, 232-236.	2.6	42

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19	Infrared study of 1-octanol liquid structure. <i>Chemical Physics</i> , 2005, 310, 169-178.	1.9	41
20	Effect of DMSO on the Mechanical and Structural Properties of Model and Biological Membranes. <i>Biophysical Journal</i> , 2020, 119, 274-286.	0.5	41
21	Infrared versus light scattering techniques to monitor the gel to liquid crystal phase transition in lipid membranes. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 644-651.	2.5	40
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.	2.5	32
23	Rotational dynamics of trehalose in aqueous solutions studied by depolarized light scattering. <i>Journal of Chemical Physics</i> , 2010, 132, 214508.	3.0	32
24	DMSO-induced perturbation of thermotropic properties of cholesterol-containing DPPC liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 3024-3031.	2.6	32
25	The negative Raman non-coincidence effect of ring vibrations. <i>Molecular Physics</i> , 1993, 80, 525-531.	1.7	31
26	Application of the Kubo-Anderson band shape equation to vibrational relaxation studies in the frequency domain and to an improved determination of spectral second moments from experimental data. <i>Journal of Chemical Physics</i> , 1996, 104, 914-922.	3.0	31
27	Denaturation and Preservation of Globular Proteins: The Role of DMSO. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13361-13367.	2.6	31
28	Spectroscopic study of acrylic resins in solid matrices. <i>Surface and Coatings Technology</i> , 2002, 151-152, 276-280.	4.8	30
29	Raman noncoincidence effect on OH stretching profiles in liquid alcohols. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 528-537.	2.5	29
30	Hydrophobic hydration of tert-butyl alcohol studied by Brillouin light and inelastic ultraviolet scattering. <i>Journal of Chemical Physics</i> , 2011, 134, 055104.	3.0	28
31	Raman micro-spectroscopy: A powerful tool for the monitoring of dynamic supramolecular changes in living cells. <i>Biophysical Chemistry</i> , 2013, 182, 58-63.	2.8	27
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.	2.6	25
33	Molecular dynamics and vibrational relaxations in liquid nitromethane. II. Raman, coherent anti-Stokes Raman spectroscopy, and transient optical Kerr effects in the totally symmetric $\hat{1}/24$ mode in $\text{CH}_3\text{NO}_2$ . <i>Journal of Chemical Physics</i> , 1993, 98, 4372-4376.	3.0	24
34	Orientational processes in liquid nitromethane studied by depolarized light scattering and transient optical Kerr effect. <i>Journal of Chemical Physics</i> , 1995, 102, 8763-8772.	3.0	24
35	Conformational changes in the unfolding process of lysozyme in water and ethanol/water solutions. <i>Journal of Molecular Liquids</i> , 2011, 159, 112-116.	4.9	24
36	Solvent effect on the vibrational dephasing of the $\hat{1}/22$ (CN) and $\hat{1}/24$ (CC) stretching modes in liquid acetonitrile and acetonitrile-d <sub>3</sub> . <i>Chemical Physics</i> , 2000, 254, 337-347.	1.9	23

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37	Evidence of DMSO-Induced Protein Aggregation in Cells. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5065-5070.	2.5	22
38	Differences in the dynamic properties of liquid CH <sub>3</sub> CN and CD <sub>3</sub> CN above 40 °C revealed by Rayleigh-Brillouin scattering spectroscopy. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 501-506.	2.5	21
39	Low-wavenumber Raman scattering from aqueous solutions of carbohydrates. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 227-232.	2.5	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.	2.6	21
41	Molecular dynamics and vibrational relaxations in liquid nitromethane.. <i>Molecular Physics</i> , 1992, 75, 1089-1097.	1.7	20
42	Structural and dynamical investigations of 1-octanol: a spectroscopic study. <i>Journal of Molecular Liquids</i> , 2002, 96-97, 363-377.	4.9	19
43	Solvent Sharing Models for Non-Interacting Solute Molecules: The Case of Glucose and Trehalose Water Solutions. <i>Food Biophysics</i> , 2013, 8, 177-182.	3.0	19
44	Molecular dynamics of liquid acetone determined by depolarized Rayleigh and low-frequency Raman scattering spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16197.	2.8	18
45	Painting biological low-frequency vibrational modes from small peptides to proteins. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11423-11431.	2.8	18
46	Hydration and aggregation of lysozyme by extended frequency range depolarized light scattering. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 472-477.	3.1	18
47	Resonance Raman scattering in azo dyes. <i>Journal of Raman Spectroscopy</i> , 1989, 20, 601-604.	2.5	17
48	Isotopic and chemical dilution effects on the vibrational relaxation rate of some totally symmetric motions of liquid acetonitrile. <i>Chemical Physics</i> , 1999, 243, 323-332.	1.9	17
49	Surface morphology and composition of some "elustro" decorated fragments of ancient ceramics from Deruta (Central Italy). <i>Applied Surface Science</i> , 2000, 157, 112-122.	6.1	17
50	Non-coincidence effect of aromatic ring vibrations. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 3631-3637.	1.8	15
51	Concentration-Temperature Dependencies of Structural Relaxation Time in Trehalose-Water Solutions by Brillouin Inelastic UV Scattering. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12577-12583.	2.5	15
52	Reversible and irreversible denaturation processes in globular proteins: from collective to molecular spectroscopic analysis. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 273-279.	2.5	15
53	Concentration dependence of hydration water in a model peptide. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12433.	2.8	15
54	Hydrophobic Hydration in Water-tert-Butyl Alcohol Solutions by Extended Depolarized Light Scattering. <i>Journal of Physical Chemistry B</i> , 2015, 119, 9236-9243.	2.6	15

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55	Cryopreservation of cells: FT-IR monitoring of lipid membrane at freeze-thaw cycles. <i>Biophysical Chemistry</i> , 2016, 208, 34-39.	2.8	15
56	Molecular reorientation in liquid acetonitrile studied by depolarized light scattering experiments. <i>Journal of Raman Spectroscopy</i> , 1995, 26, 601-605.	2.5	13
57	Intermolecular and diffusive dynamics of pure acetonitrile isotopomers studied by depolarized Rayleigh scattering and femtosecond optical Kerr effect. <i>European Physical Journal D</i> , 2002, 21, 143-151.	1.3	13
58	Structural properties of glucose-dimethylsulfoxide solutions probed by Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2009, 130, 164501.	3.0	13
59	Solvation properties of raft-like model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 183052.	2.6	12
60	Vibrational dynamics in liquid acetonitrile. Temperature and concentration effects in the non-ideal CH <sub>3</sub> CN-CCl <sub>4</sub> mixture. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 577-585.	2.5	11
61	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.	2.8	11
62	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.	2.6	11
63	Amyloid Self-Assembly of Lysozyme in Self-Crowded Conditions: The Formation of a Protein Oligomer Hydrogel. <i>Biomacromolecules</i> , 2021, 22, 1147-1158.	5.4	11
64	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.	3.3	11
65	Reorientational relaxation in a simple polar liquid: CD <sub>3</sub> CN. A comparison with light acetonitrile. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 3615-3623.	1.8	10
66	Rotational dynamics in liquid acetonitrile. Temperature and concentration effects in the non-ideal CH <sub>3</sub> CN/CCl <sub>4</sub> mixture. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2857-2861.	2.8	10
67	Reorientational dynamics in a liquid organized system: Brillouin and depolarized Rayleigh scattering experiments in 1-octanol. <i>Molecular Physics</i> , 2001, 99, 1493-1502.	1.7	10
68	Modeling the hydrodynamic fluctuations of self-associating fluids: An application to the Brillouin scattering of 1-octanol. <i>Journal of Chemical Physics</i> , 2002, 117, 4907-4924.	3.0	10
69	Structural Properties of 1-Octanol/n-Octane Mixtures Studied by Brillouin Scattering. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6243-6248.	2.5	10
70	Hydration and rotational diffusion of levoglucosan in aqueous solutions. <i>Journal of Chemical Physics</i> , 2014, 140, 184505.	3.0	10
71	Raman micro-spectroscopy study of living SH-SY5Y cells adhering on different substrates. <i>Biophysical Chemistry</i> , 2016, 208, 48-53.	2.8	10
72	Trehalose-induced slowdown of lysozyme hydration dynamics probed by EDLS spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 151, 015101.	3.0	10

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73	Non-coincidence effect and orientational dynamics in aromatic molecules. <i>Molecular Physics</i> , 2002, 100, 3677-3690.	1.7	9
74	Trans-gauche isomerization in 1-octanol probed by Brillouin scattering spectroscopy. <i>Chemical Physics Letters</i> , 2002, 357, 293-296.	2.6	9
75	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.	2.5	9
76	A study of collective motions in liquid <i>n</i> -butanol from low-wavenumber Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1279-1283.	2.5	9
77	A multidisciplinary approach to study the functional properties of neuron-like cell models constituting a living bio-hybrid system: SH-SY5Y cells adhering to PANI substrate. <i>AIP Advances</i> , 2016, 6, .	1.3	9
78	Molecular dynamics in liquid CD <sub>3</sub> NO <sub>2</sub> from Raman bandshapes. <i>Journal of Molecular Structure</i> , 1993, 293, 227-230.	3.6	8
79	New assignment of crystalline and ion-irradiated graphite phonon spectra. <i>Journal of Raman Spectroscopy</i> , 1995, 26, 917-920.	2.5	8
80	Water-like Behavior of Formamide: Jump Reorientation Probed by Extended Depolarized Light Scattering. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 120-125.	4.6	8
81	Free volume and dynamics in a lipid bilayer. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23169-23178.	2.8	8
82	Molecular dynamics and vibrational relaxation of $\hat{1}/24$ mode in methylcyanide.. <i>Journal of Molecular Structure</i> , 1993, 293, 223-226.	3.6	7
83	Mandelstam's Brillouin spectra and hyperacoustic velocities dispersion of trideuteroacetonitrile in the liquid state. <i>Chemical Physics</i> , 2000, 255, 85-93.	1.9	7
84	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.	1.9	7
85	Density fluctuations of water-glucose mixtures studied by inelastic ultra-violet scattering. <i>Philosophical Magazine</i> , 2008, 88, 3991-3998.	1.6	7
86	Brillouin and Raman Micro-Spectroscopy: A Tool for Micro-Mechanical and Structural Characterization of Cortical and Trabecular Bone Tissues. <i>Materials</i> , 2021, 14, 6869.	2.9	7
87	Infrared study and theoretical model for the K-T-B phase transition of phosphatidylcholine from natural lipids. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 166, 29-34.	2.1	6
88	Vibrational and orientational relaxations in liquid CD <sub>3</sub> NO <sub>2</sub> . <i>Journal of Molecular Liquids</i> , 2002, 96-97, 379-389.	4.9	5
89	Mercury acetate produced by metallic mercury subjected to acoustic cavitation in a solution of acetic acid in water. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 141-144.	8.2	5
90	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.	2.6	5

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91	Volume properties and spectroscopy: A terahertz Raman investigation of hen egg white lysozyme. <i>Journal of Chemical Physics</i> , 2013, 139, 225101.	3.0	5
92	Complex Dynamical Aspects of Organic Electrolyte Solutions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 215-225.	2.6	4
93	Authentication and characterisation of pottery sherds from Apricena (FG). <i>Thermochimica Acta</i> , 1998, 321, 191-195.	2.7	3
94	Polarization properties of low frequency inelastic scattering by acoustic phonons in gold nanoclusters Presented at the LANMAT 2001 Conference on the Interaction of Laser Radiation with Matter at Nanoscopic Scales: From Single Molecule Spectroscopy to Materials Processing, Venice, 3 <sup>rd</sup> October, 2001.. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2774-2779.	2.8	3
95	New evidence for non-coincidence effects in alcohols. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 267-268.	2.5	3
96	Glioblastoma single-cell microRaman analysis under stress treatments. <i>Scientific Reports</i> , 2018, 8, 7979.	3.3	3
97	Studies on the Instrumental Factors Determining Errors in the Measurements of Raman Band Profiles. Part I: Optical Factors – A Comparison of Three Different Methods. <i>Applied Spectroscopy</i> , 1993, 47, 1227-1233.	2.2	2
98	Studies on the Instrumental Factors Determining Errors in the Measurements of Raman Band Profiles. Part II: Effect of the Signal Noise on Vibrational Relaxation Functions and Relaxation Times. <i>Applied Spectroscopy</i> , 1993, 47, 1234-1236.	2.2	2
99	Light and deuterated acetonitrile: an unresolved casus?. <i>Journal of Raman Spectroscopy</i> , 2002, 33, 71-79.	2.5	2
100	Micro-Raman detection of the differentiation state of <i>SH-SY5Y</i> cells grown on silicon and aluminium substrates. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1031-1040.	2.5	2
101	Phonon spectra and unit cell analysis of 2-cyanothiophene. <i>Journal of Raman Spectroscopy</i> , 1988, 19, 423-428.	2.5	1
102	Hydration Dynamics of Model Peptides with Different Hydrophobic Character. <i>Life</i> , 2022, 12, 572.	2.4	1
103	Vibrational Analysis of Diethylselenide in the Solid State. <i>Spectroscopy Letters</i> , 1989, 22, 1323-1332.	1.0	0
104	Vibrational Spectra and Assignments for 3,4-Dibromothiophene. <i>Spectroscopy Letters</i> , 1990, 23, 1225-1231.	1.0	0
105	Application of the low frequency Raman modes for size determination of gold nanoclusters in gold-based catalytic beds. <i>Materials Science and Engineering C</i> , 2002, 19, 181-184.	7.3	0
106	Investigations of the Decorative Techniques and Conservation Condition of a Majolica Altar by Andrea della Robbia. <i>Materials Research Society Symposia Proceedings</i> , 2004, 852, 202.	0.1	0
107	Impact of dimethyl sulfoxide and natural lipid heterogeneity on the structural properties of sphingomyelin membranes. <i>Vibrational Spectroscopy</i> , 2020, 109, 103101.	2.2	0