

Alessandro Paciaroni

List of Publications by Year in descending order

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112
papers

2,722
citations

172386

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docs citations

112
times ranked

2607
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent Vibrations as a Proxy of the Telomere G-Quadruplex Rearrangements across Thermal Unfolding. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5123.	1.8	4
2	Multi-Scale Simulations and Neutron Scattering Experiments Reveal Dynamical Properties of the Bacterial Cytoplasm Near Cell-Death Temperature. <i>Biophysical Journal</i> , 2021, 120, 298a-299a.	0.2	0
3	Diffusivelike Motions in a Solvent-Free Protein-Polymer Hybrid. <i>Physical Review Letters</i> , 2021, 126, 088102.	2.9	7
4	Heat-induced self-assembling of BSA at the isoelectric point. <i>International Journal of Biological Macromolecules</i> , 2021, 177, 40-47.	3.6	17
5	The dimer-monomer equilibrium of SARS-CoV-2 main protease is affected by small molecule inhibitors. <i>Scientific Reports</i> , 2021, 11, 9283.	1.6	48
6	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.	2.3	8
7	Specific Interactions and Environment Flexibility Tune Protein Stability under Extreme Crowding. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6103-6111.	1.2	7
8	Porphyrin Binding and Irradiation Promote G-Quadruplex DNA Dimeric Structure. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8096-8102.	2.1	10
9	The Dynamics of Hydrated Proteins Are the Same as Those of Highly Asymmetric Mixtures of Two Glass-Formers. <i>ACS Omega</i> , 2021, 6, 340-347.	1.6	7
10	Terahertz collective dynamics of DNA as affected by hydration and counterions. <i>Journal of Molecular Liquids</i> , 2020, 318, 113956.	2.3	5
11	Polymorphism of human telomeric quadruplexes with drugs: a multi-technique biophysical study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11583-11592.	1.3	18
12	Protein-Polymer Dynamics as Affected by Polymer Coating and Interactions. <i>Langmuir</i> , 2019, 35, 2674-2679.	1.6	10
13	Uncovering a novel transition in the dynamics of proteins in the dry state. <i>Journal of Molecular Liquids</i> , 2019, 286, 110810.	2.3	5
14	Analysis of the thermal fluctuations in inclusion complexes of genistein with β -cyclodextrin derivatives. <i>Chemical Physics</i> , 2019, 516, 125-131.	0.9	5
15	All-DNA System Close to the Percolation Threshold. <i>ACS Macro Letters</i> , 2019, 8, 84-87.	2.3	2
16	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.	6.5	31
17	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
18	Synchrotron radiation reveals the identity of the large felid from Monte Argentario (Early Tertiary). <i>Journal of Molecular Evolution</i> , 2018, 66, 1010-1018.	1.6	7

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19	Multiple Interacting Collective Modes and Phonon Gap in Phospholipid Membranes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4367-4372.	2.1	18
20	Probing Intermolecular Interactions in Phospholipid Bilayers by Far-Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1204-1210.	1.2	24
21	SANS investigation of water adsorption in tunable cyclodextrin-based polymeric hydrogels. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6022-6029.	1.3	15
22	Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6792-6798.	1.2	9
23	Thermal activation of $\hat{\epsilon}$ -allosteric-like TM large-scale motions in a eukaryotic Lactate Dehydrogenase. <i>Scientific Reports</i> , 2017, 7, 41092.	1.6	19
24	Moving in the Right Direction: Protein Vibrations Steering Function. <i>Biophysical Journal</i> , 2017, 112, 933-942.	0.2	50
25	Critical structural fluctuations of proteins upon thermal unfolding challenge the Lindemann criterion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9361-9366.	3.3	35
26	X-ray and Neutron Scattering of Water. <i>Chemical Reviews</i> , 2016, 116, 7570-7589.	23.0	170
27	Probing the Thermal Stability of Lysozyme in Crowded Environments: Tracking Lindemann Criterion. <i>Biophysical Journal</i> , 2016, 110, 213a.	0.2	0
28	Translational diffusion of hydration water correlates with functional motions in folded and intrinsically disordered proteins. <i>Nature Communications</i> , 2015, 6, 6490.	5.8	199
29	Thermal fluctuations in chemically cross-linked polymers of cyclodextrins. <i>Soft Matter</i> , 2015, 11, 2183-2192.	1.2	17
30	Collective Ion Dynamics in Liquid Zinc: Evidence for Complex Dynamics in a Non-Free-Electron Liquid Metal. <i>Physical Review Letters</i> , 2015, 114, 187801.	2.9	42
31	Vibrational dynamics changes of protein hydration water across the dynamic transition. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 465-471.	1.5	4
32	Terahertz Dynamics in Human Cells and Their Chromatin. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2177-2181.	2.1	4
33	Melting of DNA Nonoriented Fibers: A Wide-Angle X-ray Diffraction Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3785-3792.	1.2	12
34	On the Coupling between the Collective Dynamics of Proteins and Their Hydration Water. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1181-1186.	2.1	59
35	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.	1.2	27
36	Collective THz dynamics in living <i>Escherichia coli</i> cells. <i>Chemical Physics</i> , 2013, 424, 84-88.	0.9	14

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37	Influence of Chirality on Vibrational and Relaxational Properties of (<i>S</i>)- and (<i>R,S</i>)-Ibuprofen/methyl- β -cyclodextrin Inclusion Complexes: An INS and QENS Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11466-11472.	1.2	5
38	Change of caged dynamics at T_g in hydrated proteins: Trend of mean squared displacements after correcting for the methyl-group rotation contribution. <i>Journal of Chemical Physics</i> , 2013, 138, 235102.	1.2	29
39	Vibrational excitations of proteins and their hydration water in the far-infrared range. <i>Chemical Physics</i> , 2013, 424, 80-83.	0.9	8
40	The impact of high hydrostatic pressure on structure and dynamics of β -lactoglobulin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4974-4980.	1.1	31
41	Nature of the water specific relaxation in hydrated proteins and aqueous mixtures. <i>Chemical Physics</i> , 2013, 424, 37-44.	0.9	30
42	Cyclodextrin-Complexation Effects on the Low-Frequency Vibrational Dynamics of Ibuprofen by Combined Inelastic Light and Neutron Scattering Experiments. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3917-3926.	1.2	6
43	Glassy Character of DNA Hydration Water. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2026-2031.	1.2	15
44	Water dynamics as affected by interaction with biomolecules and change of thermodynamic state: a neutron scattering study. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 064105.	0.7	8
45	Neutron scattering investigation of high-frequency dynamics in glassy glucose. <i>Physical Review B</i> , 2012, 85, .	1.1	18
46	Collective Dynamics of Intracellular Water in Living Cells. <i>Journal of Physics: Conference Series</i> , 2012, 340, 012091.	0.3	8
47	Evidence of Coexistence of Change of Caged Dynamics at T_g and the Dynamic Transition at T_d in Solvated Proteins. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1745-1757.	1.2	61
48	Vibrational Collective Dynamics of Dry Proteins in the Terahertz Region. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3861-3865.	1.2	38
49	Vibrational density of states measurements in disordered systems. <i>Journal of Physics: Conference Series</i> , 2012, 340, 012082.	0.3	0
50	A comparison between acoustic compliance and self-particle susceptibility in associated liquids: The case of water and glycerol. <i>Journal of Molecular Liquids</i> , 2012, 176, 76-78.	2.3	2
51	Longitudinal acoustic compliance and tagged particle susceptibility in liquid and supercooled glycerol. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 515-517.	1.5	1
52	Chiral recognition and complexation behaviour of β -CyD vs. l- and dl-serine by FTIR-ATR spectroscopy. <i>Journal of Molecular Structure</i> , 2011, 993, 376-381.	1.8	3
53	Acoustic Dissipation and Density of States in Liquid, Supercooled, and Glassy Glycerol. <i>Physical Review Letters</i> , 2011, 106, 155701.	2.9	6
54	Collective density fluctuations of DNA hydration water in the time-window below 1 ps. <i>Journal of Chemical Physics</i> , 2011, 135, 025101.	1.2	21

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55	Effect of the chiral discrimination on the vibrational properties of (<i>R</i>), (<i>S</i>)- and (<i>R,S</i>)-ibuprofen/methyl- β -cyclodextrin inclusion complexes. <i>Philosophical Magazine</i> , 2011, 91, 1776-1785.	0.7	12
56	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.	1.2	24
57	Broadband Depolarized Light Scattering Study of Diluted Protein Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8262-8269.	1.2	62
58	Anomalous Proton Dynamics in Ice at Low Temperatures. <i>Physical Review Letters</i> , 2009, 103, 165901.	2.9	61
59	Coupled relaxations at the protein-water interface in the picosecond time scale. <i>Journal of the Royal Society Interface</i> , 2009, 6, S635-40.	1.5	21
60	Influence of methanol on catalytic activity, stability and internal dynamics of myoglobin. <i>Chemical Physics Letters</i> , 2009, 478, 260-265.	1.2	4
61	Combining structure and dynamics: non-denaturing high-pressure effect on lysozyme in solution. <i>Journal of the Royal Society Interface</i> , 2009, 6, S619-34.	1.5	86
62	Influence of the Host-Guest Interactions on the Mobility of Genistein/ β -Cyclodextrin Inclusion Complex. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11032-11038.	1.2	10
63	Collective Dynamics of Protein Hydration Water by Brillouin Neutron Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 4664-4669.	6.6	60
64	Elastic neutron scattering of dry and rehydrated trehalose coated carboxy-myoglobin. <i>Chemical Physics</i> , 2008, 345, 283-288.	0.9	4
65	Thermal fluctuations of DNA enclosed by glycerol-water glassy matrices: an elastic neutron scattering investigation. <i>European Biophysics Journal</i> , 2008, 37, 583-590.	1.2	3
66	Advanced neutron scattering and complementary techniques to study biological systems. <i>European Biophysics Journal</i> , 2008, 37, 529-529.	1.2	0
67	A relationship between solvent viscosity and biomolecule picosecond thermal fluctuations. <i>Chemical Physics</i> , 2008, 345, 219-223.	0.9	8
68	Comparative study of protein dynamics in hydrated powders and in solutions: A neutron scattering investigation. <i>Chemical Physics</i> , 2008, 345, 224-229.	0.9	13
69	Coincidence of Dynamical Transitions in a Soluble Protein and Its Hydration Water: Direct Measurements by Neutron Scattering and MD Simulations. <i>Journal of the American Chemical Society</i> , 2008, 130, 4586-4587.	6.6	184
70	Fingerprints of Amorphous Icelike Behavior in the Vibrational Density of States of Protein Hydration Water. <i>Physical Review Letters</i> , 2008, 101, 148104.	2.9	45
71	Coupled thermal fluctuations of proteins and protein hydration water on the picosecond timescale. <i>Philosophical Magazine</i> , 2008, 88, 4071-4077.	0.7	12
72	Brillouin spectroscopy of protein hydration water: new experimental potentialities opened up by the thermal neutron spectrometer BRISP. <i>Measurement Science and Technology</i> , 2008, 19, 034026.	1.4	11

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73	Temperature dependence of fast fluctuations in single- and double-stranded DNA molecules: a neutron scattering investigation. Philosophical Magazine, 2007, 87, 509-515.	0.7	21
74	Low-frequency dynamics of water absorbed in Nafion membranes as a function of temperature. Philosophical Magazine, 2007, 87, 477-483.	0.7	1
75	Temperature-Dependent Dynamics of Water Confined in Nafion Membranes. Journal of Physical Chemistry B, 2006, 110, 13769-13776.	1.2	36
76	Controlling the Protein Dynamical Transition with Sugar-Based Bioprotectant Matrices: A Neutron Scattering Study. Biophysical Journal, 2006, 91, 289-297.	0.2	68
77	Conditioning action of the environment on the protein dynamics studied through elastic neutron scattering. European Biophysics Journal, 2006, 35, 591-599.	1.2	19
78	Pressure effect on water dynamics in tert-butyl alcohol/water solutions. Journal of Physics Condensed Matter, 2006, 18, S2363-S2371.	0.7	4
79	Dynamics of water confined in fuel cell Nafion membranes containing zirconium phosphate nanofiller. Journal of Physics Condensed Matter, 2006, 18, S2029-S2038.	0.7	10
80	Hydration-dependent internal dynamics of macromolecules: a neutron scattering study. Journal of Molecular Liquids, 2005, 117, 99-105.	2.3	2
81	Hydration and temperature dependent dynamics of lysozyme in glucose-water matrices. A neutron scattering study. Chemical Physics, 2005, 317, 274-281.	0.9	14
82	Fast fluctuations in protein powders: The role of hydration. Chemical Physics Letters, 2005, 410, 400-403.	1.2	38
83	Picosecond-Time-Scale Fluctuations of Proteins in Glassy Matrices: The Role of Viscosity. Physical Review Letters, 2005, 95, 158104.	2.9	54
84	High-temperature dynamical transition in β -lactoglobulin. Physica B: Condensed Matter, 2004, 350, E595-E598.	1.3	1
85	Elastic neutron scattering study of proton dynamics in glycerol. Physica B: Condensed Matter, 2004, 350, E951-E954.	1.3	6
86	Thermal stability and internal dynamics of lysozyme as affected by hydration. Physical Chemistry Chemical Physics, 2004, 6, 3591.	1.3	24
87	Neutron Scattering Study of the Dynamics of Hydronium Ion in (H ₃ O)Zr ₂ (PO ₄) ₃ Nasicon Across the Order-Disorder Transition. Journal of Physical Chemistry B, 2004, 108, 8910-8914.	1.2	2
88	Picosecond Internal Dynamics of Lysozyme as Affected by Thermal Unfolding in Nonaqueous Environment. Biophysical Journal, 2004, 86, 480-487.	0.2	19
89	Protein dynamics on the picosecond timescale as affected by the environment: a quasielastic neutron scattering study. Chemical Physics, 2003, 292, 397-404.	0.9	43
90	Hydration-dependent internal dynamics of reverse micelles: A quasielastic neutron scattering study. Physical Review E, 2003, 68, 021406.	0.8	26

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91	Dynamics of Different Hydrogen Classes in β -lactoglobulin: A Quasielastic Neutron Scattering Investigation. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7348-7354.	1.2	21
92	Influence of hydration on dynamical properties of reverse micelles. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 874-877.	1.5	9
93	Effect of the Environment on the Protein Dynamical Transition: A Neutron Scattering Study. <i>Biophysical Journal</i> , 2002, 83, 1157-1164.	0.2	172
94	Upgrade of the backscattering spectrometer IN13 at ILL. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1505-s1507.	1.1	3
95	Hydration and dynamics of aerosol OT reverse micelles. <i>Journal of Molecular Liquids</i> , 2002, 101, 55-68.	2.3	26
96	Low-frequency Vibrational Anomalies in β -Lactoglobulin: A Contribution of Different Hydrogen Classes Revealed by Inelastic Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2001, 105, 12150-12156.	1.2	35
97	Low-frequency vibrational modes in proteins: a neutron scattering investigation. <i>European Biophysics Journal</i> , 2001, 30, 443-449.	1.2	21
98	Elastic neutron scattering investigation of AOT-d ₂ O-CCl ₄ systems in the reverse micellar phase. <i>Chemical Physics Letters</i> , 2001, 348, 311-316.	1.2	12
99	First experimental results from the IN13-Collaborative Research Group (CRG) at the ILL. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 512-513.	1.3	2
100	Low frequency vibrational anomalies in hydrated copper azurin: A neutron scattering and MD simulation study. <i>Journal of Molecular Liquids</i> , 2000, 84, 3-16.	2.3	16
101	A Monte Carlo analysis of the elastic incoherent neutron scattering data in hydrated azurin. <i>Chemical Physics</i> , 2000, 261, 39-45.	0.9	3
102	A COINCIDENCE EXPERIMENT OF TWO COHERENT BEAMS OF THERMAL NEUTRONS. <i>Foundations of Physics Letters</i> , 2000, 13, 1-9.	0.6	1
103	Glasslike dynamical behavior of the plastocyanin hydration water. <i>Physical Review E</i> , 2000, 62, 3991-3999.	0.8	48
104	Neutron scattering evidence of a boson peak in protein hydration water. <i>Physical Review E</i> , 1999, 60, R2476-R2479.	0.8	55
105	Low frequency anomaly in the hydration water of Copper Azurin. <i>Physica B: Condensed Matter</i> , 1999, 269, 409-415.	1.3	2
106	Incoherent neutron scattering of copper azurin: a comparison with molecular dynamics simulation results. <i>European Biophysics Journal</i> , 1999, 28, 447-456.	1.2	44
107	Molecular dynamics simulation of inelastic neutron scattering spectra of Copper Azurin hydration water. , 1999, , .		0
108	Molecular-dynamics simulation evidences of a boson peak in protein hydration water. <i>Physical Review E</i> , 1998, 57, R6277-R6280.	0.8	30

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109	Spin density distribution in Ni ₉₅ Mn ₅ . Solid State Communications, 1997, 103, 97-101.	0.9	2
110	Temperature Dependence of Spin Density in Ni ₃ Al: Comparison with Pure Ni. Journal De Physique, I, 1997, 7, 865-875.	1.2	2
111	Antiphase domain and magnetic interactions in partially ordered Ni ₃ Mn. Physical Review B, 1995, 52, 3049-3052.	1.1	2
112	Impact of the Environment on the PNIPAM Dynamical Transition Probed by Elastic Neutron Scattering. Macromolecules, 0, , .	2.2	3