

# Fabio Bruni

## List of Publications by Year in descending order

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88  
papers

4,841  
citations

101384

36  
h-index

95083

68  
g-index

88  
all docs

88  
docs citations

88  
times ranked

3950  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of trehalose and glucose with a peptide $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si27.svg"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \hat{I}^2 \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -turn in aqueous solution. <i>Journal of Molecular Liquids</i> , 2022, 349, 118451.	2.3	2
2	GPG-NH <sub>2</sub> solutions: A model system for $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si13.svg"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \hat{I}^2 \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -turns formation. Possible role of trehalose against drought. <i>Journal of Molecular Liquids</i> , 2021, 335, 116514.	2.3	4
3	Hydration and aggregation of a simple amino acid: The case of glycine. <i>Journal of Molecular Liquids</i> , 2020, 301, 112407.	2.3	18
4	Hydration of two artificial sweeteners: Possible relevance for their taste. <i>Journal of Molecular Liquids</i> , 2020, 320, 114398.	2.3	4
5	Aqueous solution of betaine: Hydration and aggregation. <i>Journal of Molecular Liquids</i> , 2020, 318, 114253.	2.3	15
6	Hydration of Carboxyl Groups: A Route toward Molecular Recognition?. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4358-4364.	1.2	7
7	Ectoine hydration, aggregation and influence on water structure. <i>Molecular Physics</i> , 2019, 117, 3311-3319.	0.8	7
8	Designing an Optimal Ion Adsorber at the Nanoscale: The Unusual Nucleation of AgNP/Co <sup>2+</sup> â€“Ni <sup>2+</sup> Binary Mixtures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3855-3860.	1.5	10
9	Vibrational dynamics of confined supercooled water. <i>Journal of Chemical Physics</i> , 2019, 150, 224504.	1.2	13
10	Exploiting scaling laws for designing polymeric bottle brushes: a theoretical coarse-graining for homopolymeric branched polymers. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14873-14878.	1.3	7
11	Aqueous solvation of glutathione probed by UV resonance Raman spectroscopy. <i>Journal of Molecular Liquids</i> , 2019, 283, 537-547.	2.3	14
12	<i>N</i> -Methylacetamide Aqueous Solutions: A Neutron Diffraction Study. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1808-1814.	1.2	11
13	Ice crystallization observed in highly supercooled confined water. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4931-4938.	1.3	13
14	Multiparameter Approach to Dynamic Quantum Phase Estimation. <i>Proceedings (mdpi)</i> , 2019, 12, 55.	0.2	0
15	Role of Water in Sucrose, Lactose, and Sucralose Taste: The Sweeter, The Wetter?. <i>ACS Omega</i> , 2019, 4, 22392-22398.	1.6	22
16	Hydration of monosaccharides studied by Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1066-1075.	1.2	10
17	OH Stretching Dynamics in Hydroxide Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4077-4082.	1.2	11
18	Protection against Dehydration: A Neutron Diffraction Study on Aqueous Solutions of a Model Peptide and Trehalose. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10291-10295.	1.2	20

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19	Trehalose in Water Revisited. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7365-7374.	1.2	26
20	Hydrogen Bond Length as a Key To Understanding Sweetness. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3667-3672.	2.1	25
21	Dynamical behavior of microgels of interpenetrated polymer networks. <i>Soft Matter</i> , 2017, 13, 5185-5193.	1.2	39
22	Structure-activity relationships in carbohydrates revealed by their hydration. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1486-1493.	1.1	22
23	Glucose and Mannose: A Link between Hydration and Sweetness. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7771-7776.	1.2	21
24	Local structure of temperature and pH-sensitive colloidal microgels. <i>Journal of Chemical Physics</i> , 2015, 143, 114904.	1.2	15
25	Hydration of Caffeine at High Temperature by Neutron Scattering and Simulation Studies. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13294-13301.	1.2	29
26	The structure of water near a charged crystalline surface. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 418-422.	1.5	9
27	Water-Peptide Site-Specific Interactions: A Structural Study on the Hydration of Glutathione. <i>Biophysical Journal</i> , 2014, 106, 1701-1709.	0.2	40
28	Microscopic structure of water in a water/oil emulsion. <i>Journal of Chemical Physics</i> , 2013, 138, 204503.	1.2	10
29	Aqueous solutions of divalent chlorides: Ions hydration shell and water structure. <i>Journal of Chemical Physics</i> , 2012, 136, 064520.	1.2	85
30	Proton Momentum Distribution and Diffusion Coefficient in Water: Two Sides of the Same Coin?. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2594-2597.	2.1	4
31	How safe is to safely enter in the water no-man's land?. <i>Journal of Molecular Liquids</i> , 2012, 176, 39-43.	2.3	3
32	Multiple relaxation processes versus the fragile-to-strong transition in confined water. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19773.	1.3	28
33	Viscosity of Aqueous Solutions and Local Microscopic Structure. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14008-14013.	1.2	45
34	Isotope Quantum Effects on the Water Proton Mean Kinetic Energy. <i>Physical Review Letters</i> , 2011, 106, 255502.	2.9	19
35	Structural studies of confined liquids: The case of water confined in MCM-41. <i>Journal of Molecular Liquids</i> , 2011, 159, 42-46.	2.3	12
36	More than one dynamic crossover in protein hydration water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19873-19878.	3.3	79

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37	Water and Trehalose: How Much Do They Interact with Each Other?. Journal of Physical Chemistry B, 2010, 114, 4904-4908.	1.2	80
38	Controversial Evidence on the Point of Minimum Density in Deeply Supercooled Confined Water. Journal of Physical Chemistry Letters, 2010, 1, 1277-1282.	2.1	57
39	A new water anomaly: The temperature dependence of the proton mean kinetic energy. Journal of Chemical Physics, 2009, 130, 236101.	1.2	17
40	Influence of Concentration and Anion Size on Hydration of H <sup>+</sup> Ions and Water Structure. Journal of Physical Chemistry B, 2009, 113, 4075-4081.	1.2	20
41	Multiscale Approach to the Structural Study of Water Confined in MCM41. Journal of Physical Chemistry B, 2009, 113, 16169-16177.	1.2	66
42	Dielectric Relaxations in Confined Hydrated Myoglobin. Journal of Physical Chemistry B, 2009, 113, 9606-9613.	1.2	35
43	Solvation of KSCN in Water. Journal of Physical Chemistry B, 2009, 113, 10014-10021.	1.2	40
44	Quantum Behavior of Water Protons in Protein Hydration Shell. Biophysical Journal, 2009, 96, 1939-1943.	0.2	16
45	Similarities between confined and supercooled water. Faraday Discussions, 2009, 141, 347-358.	1.6	52
46	Water structure around trehalose. Chemical Physics, 2008, 345, 159-163.	0.9	54
47	Excess of Proton Mean Kinetic Energy in Supercooled Water. Physical Review Letters, 2008, 100, 127802.	2.9	84
48	Study of percolation and clustering in supercritical water-CO <sub>2</sub> mixtures. Journal of Chemical Physics, 2008, 128, 164504.	1.2	14
49	Proton Momentum Distribution in a Protein Hydration Shell. Physical Review Letters, 2007, 98, 138102.	2.9	47
50	The Three-Dimensional Structure of Water Confined in Nanoporous Vycor Glass. Journal of Physical Chemistry B, 2007, 111, 5610-5620.	1.2	72
51	Dynamic properties of solvent confined in silica gels studied by broadband dielectric spectroscopy. Journal of Non-Crystalline Solids, 2007, 353, 4546-4551.	1.5	13
52	Perturbation of water structure due to monovalent ions in solution. Physical Chemistry Chemical Physics, 2007, 9, 2959.	1.3	303
53	CO <sub>2</sub> in water supercritical mixtures: Test of a potential model against neutron diffraction data. Journal of Molecular Liquids, 2007, 136, 294-299.	2.3	5
54	Hydration of Sodium, Potassium, and Chloride Ions in Solution and the Concept of Structure Maker/Breaker. Journal of Physical Chemistry B, 2007, 111, 13570-13577.	1.2	576

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55	Probing water dynamics with OH <sup>-</sup> . Chemical Physics, 2007, 336, 183-187.	0.9	37
56	Structure of 2 molar NaOH in aqueous solution from neutron diffraction and empirical potential structure refinement. Physical Review B, 2006, 74, .	1.1	75
57	Solvation shell of OH <sup>-</sup> ions in water. Journal of Molecular Liquids, 2005, 117, 81-84.	2.3	54
58	Ions in water: The microscopic structure of concentrated hydroxide solutions. Journal of Chemical Physics, 2005, 122, 194509.	1.2	114
59	Ions in water: The microscopic structure of a concentrated HCl solution. Journal of Chemical Physics, 2004, 121, 7840.	1.2	121
60	Dielectric investigation of the temperature dependence of the dynamics of a hydrated protein. Physical Chemistry Chemical Physics, 2004, 6, 1912-1919.	1.3	19
61	Ions in water: The microscopic structure of concentrated NaOH solutions. Journal of Chemical Physics, 2004, 120, 10154-10162.	1.2	141
62	Solvation of hydroxyl ions in water. Journal of Chemical Physics, 2003, 119, 5001-5004.	1.2	76
63	Water structure in supercritical mixtures of water and rare gases. Journal of Chemical Physics, 2003, 118, 235-241.	1.2	13
64	Experimental determination of the site-site radial distribution functions of supercooled ultrapure bulk water. Journal of Chemical Physics, 2002, 117, 6196-6199.	1.2	31
65	Electrode and interfacial polarization in broadband dielectric spectroscopy measurements. Review of Scientific Instruments, 2001, 72, 2502-2504.	0.6	86
66	Structural characterization of NaOH aqueous solution in the glass and liquid states. Journal of Chemical Physics, 2001, 114, 8056-8063.	1.2	66
67	Water in confined geometries: experiments and simulations. Journal of Physics Condensed Matter, 2000, 12, A345-A350.	0.7	74
68	Proton glass freezing in hydrated lysozyme powders. Physical Review E, 1999, 60, 7604-7607.	0.8	26
69	Dielectric relaxation of a proton glass in hydrated protein powders. Solid State Ionics, 1999, 125, 257-261.	1.3	11
70	Neutron diffraction study of high density supercritical water. Journal of Chemical Physics, 1998, 109, 3180-3184.	1.2	78
71	Water confined in Vycor glass. I. A neutron diffraction study. Journal of Chemical Physics, 1998, 109, 1478-1485.	1.2	148
72	Analysis of the hydrogen-bonded structure of water from ambient to supercritical conditions. Journal of Chemical Physics, 1998, 108, 8528-8540.	1.2	175

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73	A molecular dynamics simulation of water confined in a cylindrical SiO <sub>2</sub> pore. Journal of Chemical Physics, 1998, 108, 9859-9867.	1.2	127
74	Water confined in Vycor glass. II. Excluded volume effects on the radial distribution functions. Journal of Chemical Physics, 1998, 109, 1486-1494.	1.2	125
75	Site-site pair correlation functions of water from 25 to 400°C: Revised analysis of new and old diffraction data. Journal of Chemical Physics, 1997, 106, 247-254.	1.2	556
76	Conformational Changes Involved in the Switch from Ovalbumin to S-Ovalbumin. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1996, 51, 379-385.	0.6	8
77	Unpredicted density dependence of hydrogen bonding in water found by neutron diffraction. Physical Review B, 1996, 54, 11876-11879.	1.1	26
78	Temperature dependence of dielectric relaxation in H <sub>2</sub> O and D <sub>2</sub> O ice. A dissipative quantum tunneling approach. Journal of Chemical Physics, 1993, 99, 538-547.	1.2	26
79	Dissipative quantum tunneling of rotational defects in ice. The Pauling potential. Journal of Chemical Physics, 1993, 99, 4227-4228.	1.2	3
80	Dissipative Quantum Tunnelling of Orientational Defects in Polycrystalline Ice. Europhysics Letters, 1992, 19, 547-551.	0.7	5
81	Cytoplasmic glass formation in maize embryos. Seed Science Research, 1992, 2, 251-253.	0.8	33
82	Pools of water in anhydrobiotic organisms. Biophysical Journal, 1992, 63, 663-672.	0.2	56
83	Glass Transitions in Soybean Seed. Plant Physiology, 1991, 96, 660-663.	2.3	126
84	Hydration, protons and onset of physiological activities in maize seeds. Physiologia Plantarum, 1991, 81, 359-366.	2.6	1
85	Proton tunneling in hydrated biological tissues near 200 K. Biophysical Chemistry, 1990, 37, 165-170.	1.5	17
86	Critical exponents of protonic percolation in maize seeds. Physical Review A, 1989, 40, 2803-2805.	1.0	44
87	Dielectric properties of Artemia cysts at low water contents. Evidence for a percolative transition. Biophysical Journal, 1989, 55, 331-338.	0.2	43
88	Two-dimensional protonic percolation on lightly hydrated purple membrane. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 9022-9025.	3.3	50