

Francesco Mallamace

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

3,948
citations

33
h-index

61
g-index

104
ext. papers

4,259
ext. citations

5.4
avg, IF

5.11
L-index

#	Paper	IF	Citations
101	The Interplay between the Theories of Mode Coupling and of Percolation Transition in Attractive Colloidal Systems. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 5316	6.3	0
100	Water Thermodynamics and Its Effects on the Protein Stability and Activity. <i>Biophysica</i> , 2021 , 1, 413-428		1
99	A Molecular Interpretation of the Dynamics of Diffusive Mass Transport of Water within a Glassy Polyetherimide. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
98	Tailoring Chitosan/LTA Zeolite Hybrid Aerogels for Anionic and Cationic Dye Adsorption. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
97	The Water Polymorphism and the Liquid-Liquid Transition from Transport Data. <i>Physchem</i> , 2021 , 1, 202-214		1
96	Some Aspects of the Liquid Water Thermodynamic Behavior: From The Stable to the Deep Supercooled Regime. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
95	Specific Heat and Transport Functions of Water. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
94	Experimental tests for a liquid-liquid critical point in water. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	6
93	Some considerations on the water polymorphism and the liquid-liquid transition by the density behavior in the liquid phase. <i>Journal of Chemical Physics</i> , 2019 , 151, 044504	3.9	9
92	Aggregation States of A, A and Ap Amyloid Beta Peptides: A SANS Study. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	9
91	A study of the hydrogen bonds effect on the water density and the liquid-liquid transition. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	2
90	The onset of the tetrabonded structure in liquid water. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	9
89	Hydrophilic and hydrophobic competition in water-methanol solutions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	3
88	The Boson peak interpretation and evolution in confined amorphous water. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	4
87	The evaluation of the hydrophilic-hydrophobic interactions and their effect in water-methanol solutions: A study in terms of the thermodynamic state functions in the frame of the transition state theory. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 168, 193-200	6	1
86	Contrasting microscopic interactions determine the properties of water/methanol solutions. <i>Frontiers of Physics</i> , 2018 , 13, 1	3.7	9
85	NMR investigation of degradation processes of ancient and modern paper at different hydration levels. <i>Frontiers of Physics</i> , 2018 , 13, 1	3.7	5

84	The Role of Hydrogen Bonding in the Folding/Unfolding Process of Hydrated Lysozyme: A Review of Recent NMR and FTIR Results. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	30
83	Confined Water as Model of Supercooled Water. <i>Chemical Reviews</i> , 2016 , 116, 7608-25	68.1	196
82	Energy landscape in protein folding and unfolding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3159-63	11.5	62
81	Dynamics of water clusters in solution with LiCl. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 442, 261-267	3.3	4
80	Some Considerations on Confined Water: The Thermal Behavior of Transport Properties in Water-Glycerol and Water-Methanol Mixtures. <i>MRS Advances</i> , 2016 , 1, 1891-1902	0.7	2
79	The role of water in the degradation process of paper using H HR-MAS NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 33335-33343	3.6	12
78	NMR spectroscopy study of local correlations in water. <i>Journal of Chemical Physics</i> , 2016 , 145, 214503	3.9	6
77	Some considerations on the transport properties of water-glycerol suspensions. <i>Journal of Chemical Physics</i> , 2016 , 144, 014501	3.9	6
76	Dynamical properties of water-methanol solutions. <i>Journal of Chemical Physics</i> , 2016 , 144, 064506	3.9	25
75	Some thermodynamical aspects of protein hydration water. <i>Journal of Chemical Physics</i> , 2015 , 142, 215103	3.9	19
74	The dynamical fragile-to-strong crossover in attractive colloidal systems. <i>Journal of Non-Crystalline Solids</i> , 2015 , 407, 355-360	3.9	2
73	Dynamical changes in hydration water accompanying lysozyme thermal denaturation. <i>Frontiers of Physics</i> , 2015 , 10, 1	3.7	7
72	The Boson peak in confined water: An experimental investigation of the liquid-liquid phase transition hypothesis. <i>Frontiers of Physics</i> , 2015 , 10, 1	3.7	10
71	Water and lysozyme: Some results from the bending and stretching vibrational modes. <i>Frontiers of Physics</i> , 2015 , 10, 1	3.7	4
70	The role of water in protein's behavior: The two dynamical crossovers studied by NMR and FTIR techniques. <i>Computational and Structural Biotechnology Journal</i> , 2015 , 13, 33-7	6.8	47
69	The influence of water on protein properties. <i>Journal of Chemical Physics</i> , 2014 , 141, 165104	3.9	33
68	Thermodynamic properties of bulk and confined water. <i>Journal of Chemical Physics</i> , 2014 , 141, 18C504	3.9	29
67	On some experimental reasons for an inhomogeneous structure of ambient water on the nanometer length scale 2014 , 107-125		

66	The protein irreversible denaturation studied by means of the bending vibrational mode. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 412, 39-44	3.3	8
65	On the ergodicity of supercooled molecular glass-forming liquids at the dynamical arrest: the o-terphenyl case. <i>Scientific Reports</i> , 2014 , 4, 3747	4.9	22
64	The thermodynamical response functions and the origin of the anomalous behavior of liquid water. <i>Faraday Discussions</i> , 2013 , 167, 95-108	3.6	31
63	Transport and Dynamics in Supercooled Confined Water. <i>Advances in Chemical Physics</i> , 2013 , 203-262		9
62	The dynamical crossover in attractive colloidal systems. <i>Journal of Chemical Physics</i> , 2013 , 139, 214502	3.9	11
61	Molecular degradation of ancient documents revealed by 1H HR-MAS NMR spectroscopy. <i>Scientific Reports</i> , 2013 , 3, 2896	4.9	35
60	Possible relation of water structural relaxation to water anomalies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4899-904	11.5	53
59	The fragile to strong dynamical crossover in supercooled liquids. The o-terphenyl case and its ergodicity at the dynamical arrest 2013 ,		2
58	A singular thermodynamically consistent temperature at the origin of the anomalous behavior of liquid water. <i>Scientific Reports</i> , 2012 , 2, 993	4.9	71
57	The dynamic crossover in water does not require bulk water. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8067-73	3.6	27
56	The dynamical crossover phenomenon in bulk water, confined water and protein hydration water. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 064103	1.8	42
55	The structure and terahertz dynamics of water confined in nanoscale pools in salt solutions. <i>Faraday Discussions</i> , 2011 , 150, 493-504; discussion 505-32	3.6	18
54	Thermodynamical properties of glass forming systems: A Nuclear Magnetic Resonance analysis. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 286-292	3.9	2
53	The role of the dynamic crossover temperature and the arrest in glass-forming fluids. <i>European Physical Journal E</i> , 2011 , 34, 94	1.5	32
52	A possible role of water in the protein folding process. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 14280-94	3.4	37
51	Transport properties of glass-forming liquids suggest that dynamic crossover temperature is as important as the glass transition temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 22457-62	11.5	168
50	Dynamical crossover and breakdown of the Stokes-Einstein relation in confined water and in methanol-diluted bulk water. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 1870-8	3.4	77
49	Observation of high-temperature dynamic crossover in protein hydration water and its relation to reversible denaturation of lysozyme. <i>Journal of Chemical Physics</i> , 2009 , 130, 135101	3.9	30

48	Appearance of a fractional Stokes-Einstein relation in water and a structural interpretation of its onset. <i>Nature Physics</i> , 2009 , 5, 565-569	16.2	199
47	Does water need a lambda-type transition?. <i>Journal of Chemical Physics</i> , 2009 , 130, 126102	3.9	14
46	The liquid water polymorphism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 15097-8	11.5	71
45	Clustering dynamics in water/methanol mixtures: a nuclear magnetic resonance study at 205 k. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10449-54	3.4	70
44	The low-temperature dynamic crossover phenomenon in protein hydration water: simulations vs experiments. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 1571-5	3.4	69
43	NMR evidence of a sharp change in a measure of local order in deeply supercooled confined water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12725-9	11.5	120
42	Transport properties of supercooled confined water. <i>European Physical Journal: Special Topics</i> , 2008 , 161, 19-33	2.3	32
41	Role of the solvent in the dynamical transitions of proteins: the case of the lysozyme-water system. <i>Journal of Chemical Physics</i> , 2007 , 127, 045104	3.9	85
40	Evidence of the existence of the low-density liquid phase in supercooled, confined water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 424-8	11.5	243
39	The anomalous behavior of the density of water in the range 30 K <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 18387-91	11.5	185
38	The fragile-to-strong dynamic crossover transition in confined water: nuclear magnetic resonance results. <i>Journal of Chemical Physics</i> , 2006 , 124, 161102	3.9	175
37	Dynamical properties of confined supercooled water: an NMR study. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, S2285-S2297	1.8	37
36	The violation of the Stokes-Einstein relation in supercooled water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12974-8	11.5	252
35	A mode coupling theory analysis of viscoelasticity near the kinetic glass transition of a copolymer micellar system. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S4975-S4986	1.8	12
34	Studies of structural arrest transition in L64/D2O micellar solutions. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S4951-S4974	1.8	4
33	The glass-to-glass transition and its end point in a copolymer micellar system. <i>Science</i> , 2003 , 300, 619-22	33.3	120
32	Observation of Liquid-to-Glass and Glass-to-Glass Transitions in L64/D2O Triblock Copolymer Micellar System. <i>Molecular Simulation</i> , 2003 , 29, 611-618	2	
31	Neutron- and light-scattering studies of the liquid-to-glass and glass-to-glass transitions in dense copolymer micellar solutions. <i>Physical Review E</i> , 2003 , 68, 041402	2.4	46

30	Nucleation effects in the aggregation of water-soluble porphyrin aqueous solutions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 304, 158-169	3.3	27
29	Small-angle neutron scattering study of the temperature-dependent attractive interaction in dense L64 copolymer micellar solutions and its relation to kinetic glass transition. <i>Physical Review E</i> , 2002 , 66, 021403	2.4	63
28	Aggregation in Water of Nonionic Amphiphilic Cyclodextrins with Short Hydrophobic Substituents. <i>Langmuir</i> , 2002 , 18, 1945-1948	4	50
27	Separation of scattering and absorption contributions in UV/visible spectra of resonant systems. <i>Analytical Chemistry</i> , 2001 , 73, 4958-63	7.8	53
26	Fractal aggregation of dyes such as porphyrins and related compounds under stacking. <i>Current Opinion in Colloid and Interface Science</i> , 2000 , 5, 49-55	7.6	23
25	Mesoscopic Structure of meso-Tetrakis(4-sulfonatophenyl)porphine J-Aggregates. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 5897-5904	3.4	151
24	Fractal Structures in Homo- and Heteroaggregated Water Soluble Porphyrins. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 9416-9420	3.4	64
23	Interaction and percolation in the L64 triblock copolymer micellar system. <i>Physical Review E</i> , 1999 , 60, 7076-87	2.4	101
22	Percolation and viscoelasticity of triblock copolymer micellar solutions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 266, 123-135	3.3	34
21	Crossover in the Kinetic Growth Process of Porphyrin Aggregation. <i>Physical Review Letters</i> , 1999 , 82, 3480-3483	7.4	33
20	Light absorption study of aggregating porphyrin in aqueous solutions. <i>Physical Review E</i> , 1998 , 57, 5766-5770	2.4	16
19	Structural properties of methanol-polyamidoamine dendrimer solutions. <i>Physical Review E</i> , 1998 , 58, 6229-6235	2.4	21
18	Dynamical properties of water-methanol solutions studied by depolarized Rayleigh scattering. <i>Physical Review E</i> , 1996 , 54, 1720-1724	2.4	35
17	Dynamics of water confined in non-ionic amphiphiles supramolecular structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 231, 207-219	3.3	7
16	Rotational dynamics of water molecules in a water-short-chain-nonionic-amphiphile mixture: Depolarized light scattering. <i>Physical Review E</i> , 1995 , 51, 2349-2355	2.4	11
15	Spinodal decomposition of a three-component water-in-oil microemulsion system. <i>Physical Review E</i> , 1995 , 51, 5818-5823	2.4	22
14	Light-scattering studies on water-nonionic-amphiphile solutions. <i>Physical Review E</i> , 1995 , 51, 2341-2348	2.4	7
13	Aggregation in Fluid Solution of Dendritic Supermolecules made of Ruthenium(II)- and Osmium(II)-Polypyridine Building Blocks. <i>Journal of the American Chemical Society</i> , 1995 , 117, 1754-1758	16.4	40

12	Spectral evidence of connected structures in liquid water: Effective Raman density of vibrational states. <i>Physical Review E</i> , 1993 , 47, 2669-2675	2.4	26
11	Raman scattering and water structure in nonionic amphiphile solutions. <i>Physical Review E</i> , 1993 , 48, 3661-3666	2.4	6
10	Light-scattering studies in cross-linked gels: Evidence of a microphase separation. <i>Physical Review E</i> , 1993 , 48, 4501-4509	2.4	6
9	Dynamical effects of supramolecular aggregates in water-butoxyethanol mixtures studied by viscosity measurements. <i>Physical Review A</i> , 1991 , 44, 6652-6658	2.6	19
8	Viscoelastic properties of dense microemulsions: Hypersound results. <i>Physical Review A</i> , 1991 , 43, 5710-5713	2.6	13
7	Molecular aggregations in water-2-butoxyethanol mixtures by ultrasonic and Brillouin light-scattering measurements. <i>Physical Review A</i> , 1991 , 44, 2578-2587	2.6	22
6	Viscosity measurements in dense microemulsions. <i>Physical Review A</i> , 1990 , 42, 7330-7339	2.6	13
5	Elastic and quasielastic light-scattering studies of the aggregation phenomena in water solutions of polystyrene particles. <i>Physical Review A</i> , 1989 , 40, 4665-4674	2.6	26
4	Large structural order in dense microemulsions studied by light scattering. <i>Physical Review A</i> , 1989 , 40, 2643-2648	2.6	22
3	Growth of fractal aggregates in water solutions of macromolecules by light scattering. <i>Physical Review A</i> , 1989 , 39, 4195-4200	2.6	30
2	Light scattering and structure in a deoxyribonucleic acid solution. <i>Physical Review A</i> , 1983 , 28, 3581-3588	2.6	22
1	Water and Biological Macromolecules. <i>Advances in Chemical Physics</i> , 263-308		5