

# Domenico Dm Mallamace

## List of Publications by Citations

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65  
papers

985  
citations

19  
h-index

29  
g-index

71  
ext. papers

1,169  
ext. citations

4.2  
avg, IF

4.27  
L-index

#	Paper	IF	Citations
65	Energy landscape in protein folding and unfolding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 3159-63	11.5	62
64	Enhanced detection of aldehydes in Extra-Virgin Olive Oil by means of band selective NMR spectroscopy. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2015</b> , 420, 258-264	3.3	54
63	The role of water in protein behavior: The two dynamical crossovers studied by NMR and FTIR techniques. <i>Computational and Structural Biotechnology Journal</i> , <b>2015</b> , 13, 33-7	6.8	47
62	Toxic and essential metals determination in commercial seafood: Paracentrotus lividus by ICP-MS. <i>Natural Product Research</i> , <b>2016</b> , 30, 657-64	2.3	46
61	The metabolic profile of lemon juice by proton HR-MAS NMR: the case of the PGI Interdonato Lemon of Messina. <i>Natural Product Research</i> , <b>2015</b> , 29, 1894-902	2.3	42
60	Performance Assessment in Fingerprinting and Multi Component Quantitative NMR Analyses. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 6709-17	7.8	41
59	(1)H HR-MAS NMR Spectroscopy and the Metabolite Determination of Typical Foods in Mediterranean Diet. <i>Journal of Analytical Methods in Chemistry</i> , <b>2015</b> , 2015, 175696	2	38
58	HR-MAS and NMR towards Foodomics. <i>Food Research International</i> , <b>2016</b> , 89, 1085-1094	7	38
57	Digestive cells from <i>Mytilus galloprovincialis</i> show a partial regulatory volume decrease following acute hypotonic stress through mechanisms involving inorganic ions. <i>Cell Biochemistry and Function</i> , <b>2013</b> , 31, 489-95	4.2	37
56	A possible role of water in the protein folding process. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 14280-94	3.4	37
55	Molecular degradation of ancient documents revealed by 1H HR-MAS NMR spectroscopy. <i>Scientific Reports</i> , <b>2013</b> , 3, 2896	4.9	35
54	A multivariate statistical analysis coming from the NMR metabolic profile of cherry tomatoes (The Sicilian Pachino case). <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2014</b> , 401, 112-117	3.3	34
53	The influence of water on protein properties. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 165104	3.9	33
52	The thermodynamical response functions and the origin of the anomalous behavior of liquid water. <i>Faraday Discussions</i> , <b>2013</b> , 167, 95-108	3.6	31
51	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> , <b>2018</b> , 19,	6.3	30
50	Thermodynamic properties of bulk and confined water. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 18C504	3.9	29
49	Statistical Analysis of Mineral Concentration for the Geographic Identification of Garlic Samples from Sicily (Italy), Tunisia and Spain. <i>Foods</i> , <b>2016</b> , 5,	4.9	29

48	Dynamical properties of water-methanol solutions. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 064506	3.9	25
47	<sup>1</sup> H NMR study of water/methanol solutions as a function of temperature and concentration. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2013</b> , 392, 596-601	3.3	20
46	Some thermodynamical aspects of protein hydration water. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 215103	3.9	19
45	A Nuclear Magnetic Resonance study of the reversible denaturation of hydrated lysozyme. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2011</b> , 390, 2904-2908	3.3	15
44	A Contribution to the Harmonization of Non-targeted NMR Methods for Data-Driven Food Authenticity Assessment. <i>Food Analytical Methods</i> , <b>2020</b> , 13, 530-541	3.4	14
43	The role of water in the degradation process of paper using H HR-MAS NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 33335-33343	3.6	12
42	Calorimetric analysis points out the physical-chemistry of organic olive oils and reveals the geographical origin. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2017</b> , 486, 925-932	3.3	11
41	The Stokes-Einstein relation in water/methanol solutions. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 234506	3.9	11
40	The dynamical crossover in attractive colloidal systems. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 214502	3.9	11
39	The Boson peak in confined water: An experimental investigation of the liquid-liquid phase transition hypothesis. <i>Frontiers of Physics</i> , <b>2015</b> , 10, 1	3.7	10
38	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> , <b>2019</b> , 151, 044504	3.9	9
37	Aggregation States of A, A and Ap Amyloid Beta Peptides: A SANS Study. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	9
36	The onset of the tetrabonded structure in liquid water. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2019</b> , 62, 1	3.6	9
35	Contrasting microscopic interactions determine the properties of water/methanol solutions. <i>Frontiers of Physics</i> , <b>2018</b> , 13, 1	3.7	9
34	Specific Heat and Transport Functions of Water. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	8
33	A community-built calibration system: The case study of quantification of metabolites in grape juice by qNMR spectroscopy. <i>Talanta</i> , <b>2020</b> , 214, 120855	6.2	8
32	The protein irreversible denaturation studied by means of the bending vibrational mode. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2014</b> , 412, 39-44	3.3	8
31	Dynamical changes in hydration water accompanying lysozyme thermal denaturation. <i>Frontiers of Physics</i> , <b>2015</b> , 10, 1	3.7	7

30	Executive functions and basic symptoms in adolescent antisocial behavior: a cross-sectional study on an Italian sample of late-onset offenders. <i>Comprehensive Psychiatry</i> , <b>2014</b> , 55, 631-8	7.3	6
29	Comparing Molecular Mechanisms in Solar NH Production and Relations with CO Reduction. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 22,	6.3	6
28	Experimental tests for a liquid-liquid critical point in water. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2020</b> , 63, 1	3.6	6
27	NMR spectroscopy study of local correlations in water. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 214503	3.9	6
26	Some considerations on the transport properties of water-glycerol suspensions. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 014501	3.9	6
25	Investigation of an Egyptian Mummy board by Using Clinical Multi-slice Computed Tomography. <i>Studies in Conservation</i> , <b>2018</b> , 63, 383-390	0.6	5
24	NMR investigation of degradation processes of ancient and modern paper at different hydration levels. <i>Frontiers of Physics</i> , <b>2018</b> , 13, 1	3.7	5
23	Paper aging and degradation monitoring by the non-destructive two-dimensional micro-Raman mapping. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 228, 117660	4.4	5
22	Water and Biological Macromolecules. <i>Advances in Chemical Physics</i> , 263-308		5
21	The Boson peak interpretation and evolution in confined amorphous water. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2019</b> , 62, 1	3.6	4
20	ESR evidence of the dynamic crossover in the supercooled liquid states of a series of solid n-alkanes. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 11145-11151	3.6	4
19	Dynamics of water clusters in solution with LiCl. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2016</b> , 442, 261-267	3.3	4
18	The fragile-to-strong dynamical crossover and the system viscoelasticity in attractive glass forming colloids. <i>Colloid and Polymer Science</i> , <b>2015</b> , 293, 3337-3349	2.4	4
17	Water and lysozyme: Some results from the bending and stretching vibrational modes. <i>Frontiers of Physics</i> , <b>2015</b> , 10, 1	3.7	4
16	SANS study of Amyloid $\beta$ : Unfolded monomers in DMSO, multidimensional aggregates in water medium. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2019</b> , 517, 385-391	3.3	4
15	Hydrophilicity and hydrophobicity: Key aspects for biomedical and technological purposes. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2021</b> , 580, 126189	3.3	4
14	Hydrophilic and hydrophobic competition in water-methanol solutions. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2019</b> , 62, 1	3.6	3
13	Proton NMR study of extra Virgin Olive Oil with temperature: Freezing and melting kinetics. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2018</b> , 499, 20-27	3.3	3

12	Liquid water structure from X-ray absorption and emission, NMR shielding and X-ray diffraction. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2019</b> , 62, 1	3.6	3
11	Tailoring Chitosan/LTA Zeolite Hybrid Aerogels for Anionic and Cationic Dye Adsorption. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
10	A study of the hydrogen bonds effect on the water density and the liquid-liquid transition. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2019</b> , 62, 1	3.6	2
9	The dynamical fragile-to-strong crossover in attractive colloidal systems. <i>Journal of Non-Crystalline Solids</i> , <b>2015</b> , 407, 355-360	3.9	2
8	A Molecular Interpretation of the Dynamics of Diffusive Mass Transport of Water within a Glassy Polyetherimide. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
7	Some Considerations on Confined Water: The Thermal Behavior of Transport Properties in Water-Glycerol and Water-Methanol Mixtures. <i>MRS Advances</i> , <b>2016</b> , 1, 1891-1902	0.7	2
6	Some Aspects of the Liquid Water Thermodynamic Behavior: From The Stable to the Deep Supercooled Regime. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	1
5	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> , <b>2018</b> , 168, 193-200	6	1
4	Water Thermodynamics and Its Effects on the Protein Stability and Activity. <i>Biophysica</i> , <b>2021</b> , 1, 413-428		1
3	Direct Analysis in Foodomics: NMR approaches <b>2021</b> , 517-535		1
2	The Water Polymorphism and the Liquid-Liquid Transition from Transport Data. <i>Physchem</i> , <b>2021</b> , 1, 202-214		1
1	The Interplay between the Theories of Mode Coupling and of Percolation Transition in Attractive Colloidal Systems. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 5316	6.3	0