

Domenico Dm Mallamace

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,330
citations

331538

21
h-index

395590

33
g-index

72
all docs

72
docs citations

72
times ranked

1800
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy landscape in protein folding and unfolding. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3159-3163.	3.3	98
2	The role of water in protein's behavior: The two dynamical crossovers studied by NMR and FTIR techniques. Computational and Structural Biotechnology Journal, 2015, 13, 33-37.	1.9	65
3	Toxic and essential metals determination in commercial seafood: <i>Paracentrotus lividus</i> by ICP-MS. Natural Product Research, 2016, 30, 657-664.	1.0	61
4	Enhanced detection of aldehydes in Extra-Virgin Olive Oil by means of band selective NMR spectroscopy. Physica A: Statistical Mechanics and Its Applications, 2015, 420, 258-264.	1.2	58
5	Digestive cells from <i>Mytilus galloprovincialis</i> show a partial regulatory volume decrease following acute hypotonic stress through mechanisms involving inorganic ions. Cell Biochemistry and Function, 2013, 31, 489-495.	1.4	54
6	The metabolic profile of lemon juice by proton HR-MAS NMR: the case of the PGI Interdonato Lemon of Messina. Natural Product Research, 2015, 29, 1894-1902.	1.0	54
7	The Role of Hydrogen Bonding in the Folding/Unfolding Process of Hydrated Lysozyme: A Review of Recent NMR and FTIR Results. International Journal of Molecular Sciences, 2018, 19, 3825.	1.8	49
8	¹ H HR-MAS NMR Spectroscopy and the Metabolite Determination of Typical Foods in Mediterranean Diet. Journal of Analytical Methods in Chemistry, 2015, 2015, 1-14.	0.7	45
9	Performance Assessment in Fingerprinting and Multi Component Quantitative NMR Analyses. Analytical Chemistry, 2015, 87, 6709-6717.	3.2	45
10	A Possible Role of Water in the Protein Folding Process. Journal of Physical Chemistry B, 2011, 115, 14280-14294.	1.2	44
11	The influence of water on protein properties. Journal of Chemical Physics, 2014, 141, 165104.	1.2	42
12	A multivariate statistical analysis coming from the NMR metabolic profile of cherry tomatoes (The Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.2	41
13	HR-MAS and NMR towards Foodomics. Food Research International, 2016, 89, 1085-1094.	2.9	41
14	The thermodynamical response functions and the origin of the anomalous behavior of liquid water. Faraday Discussions, 2013, 167, 95.	1.6	40
15	Molecular degradation of ancient documents revealed by ¹ H HR-MAS NMR spectroscopy. Scientific Reports, 2013, 3, 2896.	1.6	40
16	Statistical Analysis of Mineral Concentration for the Geographic Identification of Garlic Samples from Sicily (Italy), Tunisia and Spain. Foods, 2016, 5, 20.	1.9	36
17	Thermodynamic properties of bulk and confined water. Journal of Chemical Physics, 2014, 141, 18C504.	1.2	35
18	Dynamical properties of water-methanol solutions. Journal of Chemical Physics, 2016, 144, 064506.	1.2	31

#	ARTICLE	IF	CITATIONS
19	<math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si9.gif" display="inline" overflow="scroll"><mml:msup><mml:mrow /><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msup><mml:mstyle mathvariant="normal"><mml:mi>H</mml:mi></mml:mstyle></mml:math> NMR study of water/methanol solutions as a function of temperature and concentration. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 596-601.	1.2	26
20	Aggregation States of A β 40, A β 42 and A β 3 β 42 Amyloid Beta Peptides: A SANS Study. International Journal of Molecular Sciences, 2019, 20, 4126.	1.8	23
21	Some thermodynamical aspects of protein hydration water. Journal of Chemical Physics, 2015, 142, 215103.	1.2	22
22	A Contribution to the Harmonization of Non-targeted NMR Methods for Data-Driven Food Authenticity Assessment. Food Analytical Methods, 2020, 13, 530-541.	1.3	21
23	The Stokes-Einstein relation in water/methanol solutions. Journal of Chemical Physics, 2019, 150, 234506.	1.2	20
24	A Nuclear Magnetic Resonance study of the reversible denaturation of hydrated lysozyme. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 2904-2908.	1.2	16
25	Specific Heat and Transport Functions of Water. International Journal of Molecular Sciences, 2020, 21, 622.	1.8	14
26	A community-built calibration system: The case study of quantification of metabolites in grape juice by qNMR spectroscopy. Talanta, 2020, 214, 120855.	2.9	14
27	Hydrophilicity and hydrophobicity: Key aspects for biomedical and technological purposes. Physica A: Statistical Mechanics and Its Applications, 2021, 580, 126189.	1.2	14
28	Some considerations on the water polymorphism and the liquid-liquid transition by the density behavior in the liquid phase. Journal of Chemical Physics, 2019, 151, 044504.	1.2	13
29	The dynamical crossover in attractive colloidal systems. Journal of Chemical Physics, 2013, 139, 214502.	1.2	12
30	The role of water in the degradation process of paper using 1H HR-MAS NMR spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 33335-33343.	1.3	12
31	Calorimetric analysis points out the physical-chemistry of organic olive oils and reveals the geographical origin. Physica A: Statistical Mechanics and Its Applications, 2017, 486, 925-932.	1.2	12
32	The onset of the tetrabonded structure in liquid water. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	12
33	Comparing Molecular Mechanisms in Solar NH ₃ Production and Relations with CO ₂ Reduction. International Journal of Molecular Sciences, 2021, 22, 139.	1.8	12
34	Experimental tests for a liquid-liquid critical point in water. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	11
35	The protein irreversible denaturation studied by means of the bending vibrational mode. Physica A: Statistical Mechanics and Its Applications, 2014, 412, 39-44.	1.2	10
36	Executive functions and basic symptoms in adolescent antisocial behavior: A cross-sectional study on an Italian sample of late-onset offenders. Comprehensive Psychiatry, 2014, 55, 631-638.	1.5	10

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37	The Boson peak in confined water: An experimental investigation of the liquid-liquid phase transition hypothesis. <i>Frontiers of Physics</i> , 2015, 10, 1.	2.4	10
38	Tailoring Chitosan/LTA Zeolite Hybrid Aerogels for Anionic and Cationic Dye Adsorption. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5535.	1.8	10
39	Contrasting microscopic interactions determine the properties of water/methanol solutions. <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	10
40	Dynamical changes in hydration water accompanying lysozyme thermal denaturation. <i>Frontiers of Physics</i> , 2015, 10, 1.	2.4	9
41	NMR spectroscopy study of local correlations in water. <i>Journal of Chemical Physics</i> , 2016, 145, 214503.	1.2	9
42	Investigation of an Egyptian Mummy board by Using Clinical Multi-slice Computed Tomography. <i>Studies in Conservation</i> , 2018, 63, 383-390.	0.6	9
43	Dynamics of water clusters in solution with LiCl. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 442, 261-267.	1.2	8
44	Hydrophilic and hydrophobic competition in water-methanol solutions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	8
45	NMR investigation of degradation processes of ancient and modern paper at different hydration levels. <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	8
46	Some considerations on the transport properties of water-glycerol suspensions. <i>Journal of Chemical Physics</i> , 2016, 144, 014501.	1.2	7
47	ESR evidence of the dynamic crossover in the supercooled liquid states of a series of solid <i>n</i> -alkanes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11145-11151.	1.3	7
48	The Boson peak interpretation and evolution in confined amorphous water. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	7
49	Paper aging and degradation monitoring by the non-destructive two-dimensional micro-Raman mapping. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117660.	2.0	7
50	Hydrophilic and Hydrophobic Effects on the Structure and Thermodynamic Properties of Confined Water: Water in Solutions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7547.	1.8	7
51	The fragile-to-strong dynamical crossover and the system viscoelasticity in attractive glass forming colloids. <i>Colloid and Polymer Science</i> , 2015, 293, 3337-3349.	1.0	5
52	Liquid water structure from X-ray absorption and emission, NMR shielding and X-ray diffraction. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	5
53	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.	2.0	5
54	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, 2908.	1.8	5

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55	Water and lysozyme: Some results from the bending and stretching vibrational modes. <i>Frontiers of Physics</i> , 2015, 10, 1.	2.4	4
56	SANS study of Amyloid overflow="scroll" id="d1e303" altimg="si64.gif"><mml:msub><mml:mrow><mml:mi>1</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo>â</mml:mo></mml:msub><mml:mi>2</mml:mi></mml:mrow><mml:mrow><mml:mi>2</mml:mi></mml:mrow></mml:math> Unfolded monomers in DMSO, multidimensional aggregates in water medium. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 517, 385-391.		
57	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, 7269.	1.8	4
58	The Water Polymorphism and the Liquidâ€“Liquid Transition from Transport Data. <i>Physchem</i> , 2021, 1, 202-214.	0.5	4
59	The dynamical fragile-to-strong crossover in attractive colloidal systems. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 355-360.	1.5	3
60	Proton NMR study of extra Virgin Olive Oil with temperature: Freezing and melting kinetics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 499, 20-27.	1.2	3
61	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.	0.5	2
62	Direct Analysis in Foodomics: NMR approaches. , 2021, , 517-535.		2
63	The evaluation of the hydrophilicâ€“hydrophobic interactions and their effect in waterâ€“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.	2.5	1
64	The Proton Density of States in Confined Water (H2O). <i>International Journal of Molecular Sciences</i> , 2019, 20, 5373.	1.8	1
65	Water Thermodynamics and Its Effects on the Protein Stability and Activity. <i>Biophysica</i> , 2021, 1, 413-428.	0.6	1
66	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.	1.8	1