

Domenico Dm 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.

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 | 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 |
| 64 | Water Thermodynamics and Its Effects on the Protein Stability and Activity. <i>Biophysica</i> , 2021 , 1, 413-428 | | 1 |
| 63 | 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 |
| 62 | Tailoring Chitosan/LTA Zeolite Hybrid Aerogels for Anionic and Cationic Dye Adsorption. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 3 |
| 61 | Direct Analysis in Foodomics: NMR approaches 2021 , 517-535 | | 1 |
| 60 | The Water Polymorphism and the Liquid-Liquid Transition from Transport Data. <i>Physchem</i> , 2021 , 1, 202-214 | | 1 |
| 59 | Hydrophilicity and hydrophobicity: Key aspects for biomedical and technological purposes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 580, 126189 | 3.3 | 4 |
| 58 | 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 |
| 57 | Specific Heat and Transport Functions of Water. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 8 |
| 56 | A community-built calibration system: The case study of quantification of metabolites in grape juice by qNMR spectroscopy. <i>Talanta</i> , 2020 , 214, 120855 | 6.2 | 8 |
| 55 | Comparing Molecular Mechanisms in Solar NH Production and Relations with CO Reduction. <i>International Journal of Molecular Sciences</i> , 2020 , 22, | 6.3 | 6 |
| 54 | A Contribution to the Harmonization of Non-targeted NMR Methods for Data-Driven Food Authenticity Assessment. <i>Food Analytical Methods</i> , 2020 , 13, 530-541 | 3.4 | 14 |
| 53 | Experimental tests for a liquid-liquid critical point in water. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1 | 3.6 | 6 |
| 52 | 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 | 4.4 | 5 |
| 51 | 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 |
| 50 | 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 |
| 49 | The Stokes-Einstein relation in water/methanol solutions. <i>Journal of Chemical Physics</i> , 2019 , 150, 234506 | 3.9 | 11 |

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| 48 | 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 |
| 47 | The onset of the tetrabonded structure in liquid water. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1 | 3.6 | 9 |
| 46 | Hydrophilic and hydrophobic competition in water-methanol solutions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1 | 3.6 | 3 |
| 45 | The Boson peak interpretation and evolution in confined amorphous water. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1 | 3.6 | 4 |
| 44 | 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 | 3.6 | 3 |
| 43 | SANS study of Amyloid β : Unfolded monomers in DMSO, multidimensional aggregates in water medium. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 517, 385-391 | 3.3 | 4 |
| 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 | 5 |
| 41 | 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 | 3.3 | 3 |
| 40 | 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 |
| 39 | ESR evidence of the dynamic crossover in the supercooled liquid states of a series of solid n-alkanes. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11145-11151 | 3.6 | 4 |
| 38 | Contrasting microscopic interactions determine the properties of water/methanol solutions. <i>Frontiers of Physics</i> , 2018 , 13, 1 | 3.7 | 9 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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> , 2017 , 486, 925-932 | 3.3 | 11 |
| 34 | Toxic and essential metals determination in commercial seafood: <i>Paracentrotus lividus</i> by ICP-MS. <i>Natural Product Research</i> , 2016 , 30, 657-64 | 2.3 | 46 |
| 33 | 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 |
| 32 | Dynamics of water clusters in solution with LiCl. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 442, 261-267 | 3.3 | 4 |
| 31 | Statistical Analysis of Mineral Concentration for the Geographic Identification of Garlic Samples from Sicily (Italy), Tunisia and Spain. <i>Foods</i> , 2016 , 5, | 4.9 | 29 |

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| 30 | 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 |
| 29 | 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 |
| 28 | NMR spectroscopy study of local correlations in water. <i>Journal of Chemical Physics</i> , 2016 , 145, 214503 | 3.9 | 6 |
| 27 | Some considerations on the transport properties of water-glycerol suspensions. <i>Journal of Chemical Physics</i> , 2016 , 144, 014501 | 3.9 | 6 |
| 26 | Dynamical properties of water-methanol solutions. <i>Journal of Chemical Physics</i> , 2016 , 144, 064506 | 3.9 | 25 |
| 25 | HR-MAS and NMR towards Foodomics. <i>Food Research International</i> , 2016 , 89, 1085-1094 | 7 | 38 |
| 24 | Some thermodynamical aspects of protein hydration water. <i>Journal of Chemical Physics</i> , 2015 , 142, 215103 | 3.9 | 19 |
| 23 | 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> , 2015 , 29, 1894-902 | 2.3 | 42 |
| 22 | The dynamical fragile-to-strong crossover in attractive colloidal systems. <i>Journal of Non-Crystalline Solids</i> , 2015 , 407, 355-360 | 3.9 | 2 |
| 21 | 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> , 2015 , 420, 258-264 | 3.3 | 54 |
| 20 | 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 | 2.4 | 4 |
| 19 | Dynamical changes in hydration water accompanying lysozyme thermal denaturation. <i>Frontiers of Physics</i> , 2015 , 10, 1 | 3.7 | 7 |
| 18 | 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 |
| 17 | Water and lysozyme: Some results from the bending and stretching vibrational modes. <i>Frontiers of Physics</i> , 2015 , 10, 1 | 3.7 | 4 |
| 16 | (1)H HR-MAS NMR Spectroscopy and the Metabolite Determination of Typical Foods in Mediterranean Diet. <i>Journal of Analytical Methods in Chemistry</i> , 2015 , 2015, 175696 | 2 | 38 |
| 15 | Performance Assessment in Fingerprinting and Multi Component Quantitative NMR Analyses. <i>Analytical Chemistry</i> , 2015 , 87, 6709-17 | 7.8 | 41 |
| 14 | The role of water in protein 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 |
| 13 | The influence of water on protein properties. <i>Journal of Chemical Physics</i> , 2014 , 141, 165104 | 3.9 | 33 |

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| 12 | Thermodynamic properties of bulk and confined water. <i>Journal of Chemical Physics</i> , 2014 , 141, 18C504 | 3.9 | 29 |
| 11 | 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 |
| 10 | 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> , 2014 , 55, 631-8 | 7.3 | 6 |
| 9 | 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> , 2014 , 401, 112-117 | 3.3 | 34 |
| 8 | 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 |
| 7 | ¹ H NMR study of water/methanol solutions as a function of temperature and concentration. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013 , 392, 596-601 | 3.3 | 20 |
| 6 | The dynamical crossover in attractive colloidal systems. <i>Journal of Chemical Physics</i> , 2013 , 139, 214502 | 3.9 | 11 |
| 5 | Molecular degradation of ancient documents revealed by ¹ H HR-MAS NMR spectroscopy. <i>Scientific Reports</i> , 2013 , 3, 2896 | 4.9 | 35 |
| 4 | 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> , 2013 , 31, 489-95 | 4.2 | 37 |
| 3 | A Nuclear Magnetic Resonance study of the reversible denaturation of hydrated lysozyme. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011 , 390, 2904-2908 | 3.3 | 15 |
| 2 | A possible role of water in the protein folding process. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 14280-94 | 3.4 | 37 |
| 1 | Water and Biological Macromolecules. <i>Advances in Chemical Physics</i> , 263-308 | | 5 |