

Fausto Martelli

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,320
citations

430874

18
h-index

434195

31
g-index

33
all docs

33
docs citations

33
times ranked

1380
citing authors

#	ARTICLE	IF	CITATIONS
1	Metastable liquid-liquid transition in a molecular model of water. <i>Nature</i> , 2014, 510, 385-388.	27.8	431
2	Local structure analysis in <i>ab initio</i> liquid water. <i>Molecular Physics</i> , 2015, 113, 2829-2841.	1.7	96
3	Hydration Properties and Ionic Radii of Actinide(III) Ions in Aqueous Solution. <i>Inorganic Chemistry</i> , 2013, 52, 10318-10324.	4.0	80
4	Comment on "The putative liquid-liquid transition is a liquid-solid transition in atomistic models of water" [I and II: <i>J. Chem. Phys.</i> 135, 134503 (2011); <i>J. Chem. Phys.</i> 138, 214504 (2013)]. <i>Journal of Chemical Physics</i> , 2018, 148, 137101.	3.0	58
5	Unravelling the contribution of local structures to the anomalies of water: The synergistic action of several factors. <i>Journal of Chemical Physics</i> , 2019, 150, 094506.	3.0	52
6	Large-Scale Structure and Hyperuniformity of Amorphous Ices. <i>Physical Review Letters</i> , 2017, 119, 136002.	7.8	50
7	Local-order metric for condensed-phase environments. <i>Physical Review B</i> , 2018, 97, .	3.2	41
8	Electronic structure and bonding of lanthanoid(III) carbonates. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14822.	2.8	38
9	Network Topology in Water Nanoconfined between Phospholipid Membranes. <i>ACS Nano</i> , 2020, 14, 8616-8623.	14.6	37
10	Searching for crystal-ice domains in amorphous ices. <i>Physical Review Materials</i> , 2018, 2, .	2.4	37
11	Structural properties of water confined by phospholipid membranes. <i>Frontiers of Physics</i> , 2018, 13, 1.	5.0	34
12	Effective spectral densities for system-environment dynamics at conical intersections: S ₂ →S ₁ conical intersection in pyrazine. <i>Chemical Physics</i> , 2010, 377, 21-29.	1.9	33
13	Lanthanoids(III) and actinoids(III) in water: Diffusion coefficients and hydration enthalpies from polarizable molecular dynamics simulations. <i>Pure and Applied Chemistry</i> , 2012, 85, 237-246.	1.9	33
14	Polarizable interaction potential for molecular dynamics simulations of actinoids(III) in liquid water. <i>Journal of Chemical Physics</i> , 2011, 135, 044503.	3.0	28
15	Probing the network topology in network-forming materials: The case of water. <i>AIP Advances</i> , 2020, 10, .	1.3	26
16	Connection between liquid and non-crystalline solid phases in water. <i>Journal of Chemical Physics</i> , 2020, 153, 104503.	3.0	25
17	Role of Long-Range Electrostatic Interactions and Local Topology of the Hydrogen Bond Network in the Wettability of Fully and Partially Wetted Single and Multilayer Graphene. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6367-6377.	3.1	20
18	Topology and complexity of the hydrogen bond network in classical models of water. <i>Journal of Molecular Liquids</i> , 2021, 329, 115530.	4.9	20

#	ARTICLE	IF	CITATIONS
19	The physics of empty liquids: from patchy particles to water. Reports on Progress in Physics, 2022, 85, 016601.	20.1	20
20	Root-growth of boron nitride nanotubes: experiments and <i>ab initio</i> simulations. Nanoscale, 2018, 10, 22223-22230.	5.6	19
21	Redefining the concept of hydration water near soft interfaces. Biointerphases, 2021, 16, 020801.	1.6	18
22	Palmer et al. reply. Nature, 2016, 531, E2-E3.	27.8	17
23	Switching Cytolytic Nanopores into Antimicrobial Fractal Ruptures by a Single Side Chain Mutation. ACS Nano, 2021, 15, 9679-9689.	14.6	17
24	Hydration properties of lanthanoid(III) carbonate complexes in liquid water determined by polarizable molecular dynamics simulations. Physical Chemistry Chemical Physics, 2014, 16, 3693.	2.8	15
25	Density and bond-orientational relaxations in supercooled water. Molecular Physics, 2016, 114, 2580-2585.	1.7	14
26	Modulation of Antimicrobial Peptide Potency in Stressed Lipid Bilayers. Physical Review Letters, 2019, 122, 208103.	7.8	13
27	Wettability of graphite under 2D confinement. Carbon, 2022, 198, 132-141.	10.3	13
28	Varying the charge of small cations in liquid water: Structural, transport, and thermodynamical properties. Journal of Chemical Physics, 2012, 137, 164501.	3.0	9
29	Signatures of sluggish dynamics and local structural ordering during ice nucleation. Journal of Chemical Physics, 2022, 156, 114502.	3.0	7
30	Steady-like topology of the dynamical hydrogen bond network in supercooled water. , 2022, 1, .		7
31	Observing the spontaneous formation of a sub-critical nucleus in a phase-change amorphous material from <i>ab initio</i> molecular dynamics. Materials Science in Semiconductor Processing, 2021, 136, 106102.	4.0	5
32	Water between Membranes. , 2019, , 69-88.		4
33	Simulation of large molecular systems with electronically-derived forces. Computer Physics Communications, 2021, 264, 107959.	7.5	3