

Sho Imoto

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

619
citations

687363

13
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839539

18
g-index

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all docs

18
docs citations

18
times ranked

633
citing authors

#	ARTICLE	IF	CITATIONS
1	Aqueous TMAO solution under high hydrostatic pressure. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 11355-11365.	2.8	3
2	Pressure-dependent electronic structure calculations using integral equation-based solvation models. <i>Biophysical Chemistry</i> , 2020, 257, 106258.	2.8	14
3	How Can Protons Migrate in Extremely Compressed Liquid Water?. <i>Physical Review Letters</i> , 2020, 125, 086001.	7.8	3
4	Molecular Structure and Modeling of Water-Air and Ice-Air Interfaces Monitored by Sum-Frequency Generation. <i>Chemical Reviews</i> , 2020, 120, 3633-3667.	47.7	97
5	Assessing the Accuracy of Density Functional Theory through Structure and Dynamics of the Water-Air Interface. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4914-4919.	4.6	43
6	Hydrogen-Bonding in Liquid Water at Multikilobar Pressures. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7748-7753.	2.6	15
7	Structure and thermodynamics of aqueous urea solutions from ambient to kilobar pressures: From thermodynamic modeling, experiments, and first principles simulations to an accurate force field description. <i>Biophysical Chemistry</i> , 2019, 254, 106260.	2.8	10
8	Structure and Dynamics of Water at the Water-Air Interface Using First-Principles Molecular Dynamics Simulations. II. NonLocal vs Empirical van der Waals Corrections. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3836-3843.	5.3	12
9	Pressure response of the THz spectrum of bulk liquid water revealed by intermolecular instantaneous normal mode analysis. <i>Journal of Chemical Physics</i> , 2019, 150, 084502.	3.0	13
10	Aqueous TMAO solutions as seen by theoretical THz spectroscopy: hydrophilic versus hydrophobic water. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6146-6158.	2.8	22
11	Orientational Distribution of Free O-H Groups of Interfacial Water is Exponential. <i>Physical Review Letters</i> , 2018, 121, 246101.	7.8	49
12	Design principles for high-pressure force fields: Aqueous TMAO solutions from ambient to kilobar pressures. <i>Journal of Chemical Physics</i> , 2016, 144, 144104.	3.0	79
13	Toward Extreme Biophysics: Deciphering the Infrared Response of Biomolecular Solutions at High Pressures. <i>Angewandte Chemie</i> , 2016, 128, 9686-9690.	2.0	4
14	Toward Extreme Biophysics: Deciphering the Infrared Response of Biomolecular Solutions at High Pressures. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9534-9538.	13.8	47
15	Ultrafast Dynamics of Liquid Water: Energy Relaxation and Transfer Processes of the OH Stretch and the HOH Bend. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11068-11078.	2.6	35
16	Water structure and solvation of osmolytes at high hydrostatic pressure: pure water and TMAO solutions at 10 kbar versus 1 bar. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24224-24237.	2.8	67
17	Molecular origin of the difference in the HOH bend of the IR spectra between liquid water and ice. <i>Journal of Chemical Physics</i> , 2013, 138, 054506.	3.0	43
18	Insights in quantum dynamical effects in the infrared spectroscopy of liquid water from a semiclassical study with an <i>ab initio</i> -based flexible and polarizable force field. <i>Journal of Chemical Physics</i> , 2011, 135, 244503.	3.0	63