# Sho Imoto

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1002588/publications.pdf

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|---|---|---|---|
| 18 papers | 619 citations | 687363 13 h-index | 839539 18 g-index |
| 18 all docs | 18 docs citations | 18 times ranked | 633 citing authors |

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