

Philip H Handle

List of Publications by Year in descending order

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25
papers

928
citations

567281

15
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

849
citing authors

#	ARTICLE	IF	CITATIONS
1	Water's second glass transition. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17720-17725.	7.1	243
2	How many amorphous ices are there?. Physical Chemistry Chemical Physics, 2011, 13, 8783.	2.8	167
3	Supercooled and glassy water: Metastable liquid(s), amorphous solid(s), and a no-man's land. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13336-13344.	7.1	99
4	The glass transition in high-density amorphous ice. Journal of Non-Crystalline Solids, 2015, 407, 423-430.	3.1	52
5	Relaxation Time of High-Density Amorphous Ice. Physical Review Letters, 2012, 108, 225901.	7.8	36
6	From parallel to single crystallization kinetics in high-density amorphous ice. Physical Review B, 2013, 88, .	3.2	34
7	Glass polymorphism and liquid-liquid phase transition in aqueous solutions: experiments and computer simulations. Physical Chemistry Chemical Physics, 2019, 21, 23238-23268.	2.8	33
8	Potential energy landscape of TIP4P/2005 water. Journal of Chemical Physics, 2018, 148, 134505.	3.0	32
9	Condensation and Demixing in Solutions of DNA Nanostars and Their Mixtures. ACS Nano, 2017, 11, 2094-2102.	14.6	28
10	Polarizable and non-polarizable force fields: Protein folding, unfolding, and misfolding. Journal of Chemical Physics, 2020, 153, 185102.	3.0	26
11	Relaxation dynamics and transformation kinetics of deeply supercooled water: Temperature, pressure, doping, and proton/deuteron isotope effects. Journal of Chemical Physics, 2017, 147, 034506.	3.0	23
12	Glass polymorphism in TIP4P/2005 water: A description based on the potential energy landscape formalism. Journal of Chemical Physics, 2019, 150, 244506.	3.0	20
13	Dynamics anomaly in high-density amorphous ice between 0.7 and 1.1 GPa. Physical Review B, 2016, 93, .	3.2	19
14	q -Independent Slow Dynamics in Atomic and Molecular Systems. Physical Review Letters, 2019, 122, 175501.	7.8	19
15	Experimental study of the polyamorphism of water. II. The isobaric transitions between HDA and VHDA at intermediate and high pressures. Journal of Chemical Physics, 2018, 148, 124509.	3.0	17
16	Temperature-induced amorphisation of hexagonal ice. Physical Chemistry Chemical Physics, 2015, 17, 5403-5412.	2.8	14
17	Experimental study of the polyamorphism of water. I. The isobaric transitions from amorphous ices to LDA at 4 MPa. Journal of Chemical Physics, 2018, 148, 124508.	3.0	13
18	Limits of metastability in amorphous ices: the neutron scattering Debye-Waller factor. Physical Chemistry Chemical Physics, 2012, 14, 16386.	2.8	12

#	ARTICLE	IF	CITATIONS
19	The Adam-Gibbs relation and the TIP4P/2005 model of water. <i>Molecular Physics</i> , 2018, 116, 3366-3371.	1.7	11
20	Charge Anisotropy of Nitrogen: Where Chemical Intuition Fails. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4443-4453.	5.3	8
21	Dynamics Rationalize Proteolytic Susceptibility of the Major Birch Pollen Allergen Bet v 1. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 18.	3.5	6
22	Ex situ studies of relaxation and crystallization in high-density amorphous ice annealed at 0.1 and 0.2 GPa. <i>Thermochimica Acta</i> , 2016, 636, 11-22.	2.7	5
23	Size dependence of dynamic fluctuations in liquid and supercooled water. <i>Journal of Chemical Physics</i> , 2019, 150, 144505.	3.0	5
24	Effective potentials induced by mixtures of patchy and hard co-solutes. <i>Journal of Chemical Physics</i> , 2021, 155, 064901.	3.0	4
25	Comment on Y. Yoshimura: "Pressure-induced phase transition of ice in aqueous KOH solution" <i>High Pressure Research</i> , 2011, 31, 488-490.	1.2	2