Tadashi Ogitsu

List of Publications by Year
in descending order

23	1,277	471509 17	610901 24
papers	citations	h-index	g-index

25	25	25	2295
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystallographic Effects of GaN Nanostructures in Photoelectrochemical Reaction. Nano Letters, 2022, 22, 2236-2243.	9.1	12
2	Comparison of ablators for the polar direct drive exploding pusher platform. High Energy Density Physics, 2021, 38, 100928.	1.5	2
3	Development of a photoelectrochemically self-improving Si/GaN photocathode for efficient and durable H2 production. Nature Materials, 2021, 20, 1130-1135.	27.5	49
4	Structural motifs and bonding in two families of boron structures predicted at megabar pressures. Physical Review Materials, 2021, 5, .	2.4	8
5	Phase transformation in boron under shock compression. Solid State Sciences, 2020, 108, 106376.	3.2	5
6	Benchmarking boron carbide equation of state using computation and experiment. Physical Review E, 2020, 102, 053203.	2.1	6
7	Modulation of Surface Bonding Topology: Oxygen Bridges on OH-Terminated InP (001). Journal of Physical Chemistry C, 2020, 124, 3196-3203.	3.1	9
8	Long-term stability studies of a semiconductor photoelectrode in three-electrode configuration. Journal of Materials Chemistry A, 2019, 7, 27612-27619.	10.3	28
9	Oxidation-Induced Polymerization of InP Surface and Implications for Optoelectronic Applications. Journal of Physical Chemistry C, 2019, 123, 30893-30902.	3.1	9
10	Optical absorption induced by small polaron formation in transition metal oxides: The case of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2019, 3, .	2.4	35
11	Integrating Ab Initio Simulations and X-ray Photoelectron Spectroscopy: Toward A Realistic Description of Oxidized Solid/Liquid Interfaces. Journal of Physical Chemistry Letters, 2018, 9, 194-203.	4.6	27
12	Theoretical and experimental investigation of the equation of state of boron plasmas. Physical Review E, 2018, 98, 023205.	2.1	23
13	Self-optimizing, highly surface-active layeredÂmetal dichalcogenide catalysts for hydrogen evolution. Nature Energy, 2017, 2, .	39.5	336
14	Structure and dynamics of aqueous solutions from PBE-based first-principles molecular dynamics simulations. Journal of Chemical Physics, 2016, 145, 154501.	3.0	87
15	Salt Solutions in Carbon Nanotubes: The Role of Cationâ^Ï€ Interactions. Journal of Physical Chemistry C, 2016, 120, 7332-7338.	3.1	62
16	Methods of photoelectrode characterization with high spatial and temporal resolution. Energy and Environmental Science, 2015, 8, 2863-2885.	30.8	51
17	Capacitive charge storage at an electrified interface investigated via direct first-principles simulations. Physical Review B, 2015, 91, .	3.2	25
18	Surface Chemistry of GaP(001) and InP(001) in Contact with Water. Journal of Physical Chemistry C, 2014, 118, 1062-1070.	3.1	49

#	Article	IF	Citations
19	Hydrogen-Bond Dynamics of Water at the Interface with InP/GaP(001) and the Implications for Photoelectrochemistry. Journal of the American Chemical Society, 2013, 135, 15774-15783.	13.7	76
20	Î²-Rhombohedral Boron: At the Crossroads of the Chemistry of Boron and the Physics of Frustration. Chemical Reviews, 2013, 113, 3425-3449.	47.7	177
21	Local structural models of complex oxygen- and hydroxyl-rich GaP/InP(001) surfaces. Journal of Chemical Physics, 2012, 136, 064705.	3.0	28
22	Geometrical frustration in an elemental solid: An Ising model to explain the defect structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>-rhombohedral boron. Physical Review B, 2010, 81, .	3.2	42
23	Imperfect Crystal and Unusual Semiconductor: Boron, a Frustrated Element. Journal of the American Chemical Society, 2009, 131, 1903-1909.	13.7	114