

Tadashi Ogitsu

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,277
citations

471509

17
h-index

610901

24
g-index

25
all docs

25
docs citations

25
times ranked

2295
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-optimizing, highly surface-active layered metal dichalcogenide catalysts for hydrogen evolution. <i>Nature Energy</i> , 2017, 2, .	39.5	336
2	$\hat{\Gamma}$ -Rhombohedral Boron: At the Crossroads of the Chemistry of Boron and the Physics of Frustration. <i>Chemical Reviews</i> , 2013, 113, 3425-3449.	47.7	177
3	Imperfect Crystal and Unusual Semiconductor: Boron, a Frustrated Element. <i>Journal of the American Chemical Society</i> , 2009, 131, 1903-1909.	13.7	114
4	Structure and dynamics of aqueous solutions from PBE-based first-principles molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2016, 145, 154501.	3.0	87
5	Hydrogen-Bond Dynamics of Water at the Interface with InP/GaP(001) and the Implications for Photoelectrochemistry. <i>Journal of the American Chemical Society</i> , 2013, 135, 15774-15783.	13.7	76
6	Salt Solutions in Carbon Nanotubes: The Role of Cation- π Interactions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7332-7338.	3.1	62
7	Methods of photoelectrode characterization with high spatial and temporal resolution. <i>Energy and Environmental Science</i> , 2015, 8, 2863-2885.	30.8	51
8	Surface Chemistry of GaP(001) and InP(001) in Contact with Water. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1062-1070.	3.1	49
9	Development of a photoelectrochemically self-improving Si/GaN photocathode for efficient and durable H ₂ production. <i>Nature Materials</i> , 2021, 20, 1130-1135.	27.5	49
10	Geometrical frustration in an elemental solid: An Ising model to explain the defect structure of Γ -rhombohedral boron. <i>Physical Review B</i> , 2010, 81, .	3.2	42
11	Optical absorption induced by small polaron formation in transition metal oxides: The case of CoO . <i>Physical Review Materials</i> , 2019, 3, .	2.3	35
12	Local structural models of complex oxygen- and hydroxyl-rich GaP/InP(001) surfaces. <i>Journal of Chemical Physics</i> , 2012, 136, 064705.	3.0	28
13	Long-term stability studies of a semiconductor photoelectrode in three-electrode configuration. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27612-27619.	10.3	28
14	Integrating Ab Initio Simulations and X-ray Photoelectron Spectroscopy: Toward A Realistic Description of Oxidized Solid/Liquid Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 194-203.	4.6	27
15	Capacitive charge storage at an electrified interface investigated via direct first-principles simulations. <i>Physical Review B</i> , 2015, 91, .	3.2	25
16	Theoretical and experimental investigation of the equation of state of boron plasmas. <i>Physical Review E</i> , 2018, 98, 023205.	2.1	23
17	Crystallographic Effects of GaN Nanostructures in Photoelectrochemical Reaction. <i>Nano Letters</i> , 2022, 22, 2236-2243.	9.1	12
18	Oxidation-Induced Polymerization of InP Surface and Implications for Optoelectronic Applications. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30893-30902.	3.1	9

#	ARTICLE	IF	CITATIONS
19	Modulation of Surface Bonding Topology: Oxygen Bridges on OH-Terminated InP (001). Journal of Physical Chemistry C, 2020, 124, 3196-3203.	3.1	9
20	Structural motifs and bonding in two families of boron structures predicted at megabar pressures. Physical Review Materials, 2021, 5, .	2.4	8
21	Benchmarking boron carbide equation of state using computation and experiment. Physical Review E, 2020, 102, 053203.	2.1	6
22	Phase transformation in boron under shock compression. Solid State Sciences, 2020, 108, 106376.	3.2	5
23	Comparison of ablaters for the polar direct drive exploding pusher platform. High Energy Density Physics, 2021, 38, 100928.	1.5	2