Taku Watanabe

List of Publications by Year
in descending order

13	1,942	687363 13	1058476 14
papers	citations	h-index	g-index

14	14	14	2618
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-energy long-cycling all-solid-state lithium metal batteries enabled by silverâ€“carbon composite anodes. Nature Energy, 2020, 5, 299-308.	39.5	932
2	Accelerating Applications of Metalâ€“Organic Frameworks for Gas Adsorption and Separation by Computational Screening of Materials. Langmuir, 2012, 28, 14114-14128.	3.5	202
3	Thermal transport and grain boundary conductance in ultrananocrystalline diamond thin films. Journal of Applied Physics, 2006, 99, 114301.	2.5	139
4	Energetics of intrinsic point defects in uranium dioxide from electronic-structure calculations. Journal of Nuclear Materials, 2009, 384, 61-69.	2.7	127
5	Accurate Treatment of Electrostatics during Molecular Adsorption in Nanoporous Crystals without Assigning Point Charges to Framework Atoms. Journal of Physical Chemistry C, 2011, 115, 4824-4836.	3.1	106
6	Thermal transport properties of uranium dioxide by molecular dynamics simulations. Journal of Nuclear Materials, 2008, 375, 388-396.	2.7	87
7	Molecular chemisorption on open metal sites in Cu3(benzenetricarboxylate)2: A spatially periodic density functional theory study. Journal of Chemical Physics, 2010, 133, 094509.	3.0	87
8	Computational identification of a metal organic framework for high selectivity membrane-based CO2/CH4 separations: Cu(hfipbb)(H2hfipbb)0.5. Physical Chemistry Chemical Physics, 2009, 11, 11389.	2.8	83
9	Thermal conductance across grain boundaries in diamond from molecular dynamics simulation. Journal of Applied Physics, 2007, 102, 063503.	2.5	47
10	Thermal Transport in Offâ€Stoichiometric Uranium Dioxide by Atomic Level Simulation. Journal of the American Ceramic Society, 2009, 92, 850-856.	3.8	47
11	Thermal transport in polyethylene and at polyethyleneâ€“diamond interfaces investigated using molecular dynamics simulation. Journal of Physics Condensed Matter, 2009, 21, 084219.	1.8	40
12	Highly Cyclable Allâ€Solidâ€State Battery with Depositionâ€Type Lithium Metal Anode Based on Thin Carbon Black Layer. Advanced Energy and Sustainability Research, 2021, 2, 2100066.	5.8	23
13	Toward an Atomistically Informed Fuel Performance Code: Thermal Properties Using FRAPCON and Molecular Dynamics Simulation. Nuclear Technology, 2009, 165, 308-312.	1.2	6