

# Takashi Aizawa

## List of Publications by Year in descending order

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33  
papers

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citations

759233

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610901

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docs citations

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times ranked

674  
citing authors

#	ARTICLE	IF	CITATIONS
1	Miniaturized in-plane $\bar{\Gamma}$ -type thermoelectric device composed of a II-IV semiconductor thin film prepared by microfabrication. <i>Materials Today Energy</i> , 2022, 28, 101075.	4.7	13
2	Direct Growth of Germanene at Interfaces between Van der Waals Materials and Ag(111). <i>Advanced Functional Materials</i> , 2021, 31, 2007038.	14.9	27
3	Improvement of power factor in the room temperature range of $\text{Mg}_2\text{Sn}_{1-x}\text{Ge}_x$ . <i>Japanese Journal of Applied Physics</i> , 2021, 60, SBBF06.	1.5	6
4	Phonon dispersion of a two-dimensional boron sheet on Ag(111). <i>Physical Review Materials</i> , 2021, 5, .	2.4	5
5	Control of Competing Thermodynamics and Kinetics in Vapor Phase Thin-Film Growth of Nitrides and Borides. <i>Frontiers in Chemistry</i> , 2021, 9, 642388.	3.6	4
6	High power factor in epitaxial $\text{Mg}_2\text{Sn}$ thin films via Ga doping. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	8
7	Nucleation and growth of water ice on oxide surfaces: the influence of a precursor to water dissociation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20515-20523.	2.8	4
8	Structure Analysis of Water Ice Crystallites on NaCl(001), KCl(001), and $\text{CaF}_2(111)$ by Reflection High-Energy Electron Diffraction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15180-15187.	3.1	2
9	Isotope Effects in Exchange, Desorption, and Decomposition of Water Molecules on Ru(0001) at Cryogenic Temperatures. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28139-28144.	3.1	1
10	Crystallization Kinetics of Water on Bare, Hydrogenated, and Hydroxylated Si(100) and Si(111) Surfaces Studied by RHEED, TOF-SIMS, and TPD. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20373-20383.	3.1	7
11	Hydrophobic Hydration of Xenon and Tetrahydrofuran in Amorphous Solid Water. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27055-27063.	3.1	3
12	Reflection high energy electron diffraction (RHEED) study of ice nucleation and growth on Ni(111): influences of adspecies and electron irradiation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19585-19593.	2.8	5
13	Crystallization kinetics of thin water films on Pt(111): effects of oxygen and carbon-monoxide adspecies. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1123-1130.	2.8	15
14	Nucleation and growth of water ice on Ru(0001): Influences of oxygen and carbon-monoxide adspecies. <i>Chemical Physics Letters</i> , 2019, 722, 132-139.	2.6	10
15	Fabrication of $\text{Mg}_2\text{Sn}(111)$ film by molecular beam epitaxy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	8
16	Two-dimensional silicon boride on $\text{ZrB}_2$ . <i>Physical Review Materials</i> , 2019, 3, .	2.1	24
17	Wettability of Bare and Graphene-Adsorbed Pt(111) during Glass-Liquid Transition, Crystallization, and Premelting of Water. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28094-28104.	3.1	12
18	Crystallization kinetics of water on graphite. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21856-21863.	2.8	20

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19	ZrC epitaxy on Si(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 061512.	2.1	1
20	Silicene on Zirconium Carbide (111). Journal of Physical Chemistry C, 2014, 118, 23049-23057.	3.1	129
21	Adsorption of CO and O2 on W2C(0001). Journal of Chemical Physics, 2011, 135, 144704.	3.0	4
22	Surface reconstruction of W2C(0001). Journal of Physics Condensed Matter, 2011, 23, 305007.	1.8	9
23	Graphenelike surface boron layer: Structural phases on transition-metal diborides (0001). Physical Review B, 2010, 81, .	3.2	31
24	The oxidized layer on ZrB2(0001). Applied Surface Science, 2009, 256, 1120-1123.	6.1	8
25	Plasma-assisted molecular-beam epitaxy of GaN on transition-metal carbide (111) surfaces. Journal of Crystal Growth, 2008, 310, 22-25.	1.5	4
26	Interface stabilization by Al in GaN and AlN epitaxies on NbB2(0001). Applied Physics Letters, 2006, 89, 181913.	3.3	4
27	Surface core-level shift and electronic structure on transition-metal diboride (0001) surfaces. Physical Review B, 2005, 71, .	3.2	56
28	Adsorption of H2, 2H2, O2, and CO on ZrB2(0001). Journal of Chemical Physics, 2002, 117, 11310-11314.	3.0	17
29	Surface phonon dispersion of ZrB2(0001) and NbB2(0001). Physical Review B, 2001, 65, .	3.2	56
30	Structural analysis of the HfB2(0001) surface by impact-collision ion scattering spectroscopy. Surface Science, 1998, 415, 433-437.	1.9	41
31	Structural analysis of NbC(111)-O and NbC(111)-D surfaces. Surface Science, 1996, 346, 158-164.	1.9	20
32	Molecular adsorption of oxygen on transition-metal carbide. Surface Science, 1996, 357-358, 645-650.	1.9	13
33	Analysis of the NbC(111)-(111)-Al surface structure by impact-collision ion-scattering spectroscopy. Physical Review B, 1993, 47, 13752-13758.	3.2	35