

Yoyo Hinuma

List of Publications by Citations

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23
papers

755
citations

11
h-index

25
g-index

25
ext. papers

992
ext. citations

4.6
avg, IF

4.41
L-index

#	Paper	IF	Citations
23	Band structure diagram paths based on crystallography. <i>Computational Materials Science</i> , 2017 , 128, 140-184	3.2	247
22	Band alignment of semiconductors from density-functional theory and many-body perturbation theory. <i>Physical Review B</i> , 2014 , 90,	3.3	203
21	Comparison of approximations in density functional theory calculations: Energetics and structure of binary oxides. <i>Physical Review B</i> , 2017 , 96,	3.3	58
20	Density Functional Theory Calculations of Oxygen Vacancy Formation and Subsequent Molecular Adsorption on Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 29435-29444	3.8	51
19	Band offsets of CuInSe ₂ /CdS and CuInSe ₂ /ZnS (110) interfaces: A hybrid density functional theory study. <i>Physical Review B</i> , 2013 , 88,	3.3	38
18	Categorization of surface polarity from a crystallographic approach. <i>Computational Materials Science</i> , 2016 , 113, 221-230	3.2	31
17	Band alignment at surfaces and heterointerfaces of Al ₂ O ₃ , Ga ₂ O ₃ , In ₂ O ₃ , and related group-III oxide polymorphs: A first-principles study. <i>Physical Review Materials</i> , 2019 , 3,	3.2	18
16	Effects of composition, crystal structure, and surface orientation on band alignment of divalent metal oxides: A first-principles study. <i>Physical Review Materials</i> , 2018 , 2,	3.2	16
15	Finding a junction partner for candidate solar cell absorbers enargite and bournonite from electronic band and lattice matching. <i>Journal of Applied Physics</i> , 2019 , 125, 055703	2.5	13
14	Linear Correlations between Adsorption Energies and HOMO Levels for the Adsorption of Small Molecules on TiO ₂ Surfaces. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20988-20997	3.8	13
13	Frontier Molecular Orbital Based Analysis of Solid-Absorbate Interactions over Group 13 Metal Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15355-15365	3.8	12
12	Surface Oxygen Vacancy Formation Energy Calculations in 34 Orientations of $\sqrt{3}\times\sqrt{3}$ Ga ₂ O ₃ and $\sqrt{3}\times\sqrt{3}$ Al ₂ O ₃ . <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10509-10522	3.8	11
11	Valence band offsets at zinc-blende heterointerfaces with misfit dislocations: A first-principles study. <i>Physical Review B</i> , 2013 , 88,	3.3	10
10	Changes in Surface Oxygen Vacancy Formation Energy at Metal/Oxide Perimeter Sites: A Systematic Study on Metal Nanoparticles Deposited on an In ₂ O ₃ (111) Support. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27621-27630	3.8	10
9	The effect of cation size on hydride-ion conduction in LnSrLiH ₂ O ₂ (Ln = La, Pr, Nd, Sm, Gd) oxyhydrides. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24685-24694	1.3	5
8	Surface activation by electron scavenger metal nanorod adsorption on TiH, TiC, TiN, and TiO. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 16577-16593	3.6	5
7	Factors determining surface oxygen vacancy formation energy in ternary spinel structure oxides with zinc. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23768-23777	3.6	5

6	Effect of Oxygen Vacancies on Adsorption of Small Molecules on Anatase and Rutile TiO ₂ Surfaces: A Frontier Orbital Approach. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3827-3844	3.8	3
5	A simplified methodology for the modeling of interfaces of elementary metals. <i>AIP Advances</i> , 2021 , 11, 115020	1.5	2
4	Reactions of the LiMnO Cathode in an All-Solid-State Thin-Film Battery during Cycling. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7650-7663	9.5	1
3	Understanding and controlling the formation of surface anion vacancies for catalytic applications. <i>Catalysis Science and Technology</i> , 2022 , 12, 2398-2410	5.5	0
2	Experimental and Theoretical Investigation of Metal-Support Interactions in Metal-Oxide-Supported Rhenium Materials. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 4472-4482	3.8	0
1	Categorization of inorganic crystal structures by Delaunay tetrahedralization. <i>Science and Technology of Advanced Materials Methods</i> , 2022 , 2, 75-83		