

# Yoyo Hinuma

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Understanding and controlling the formation of surface anion vacancies for catalytic applications. <i>Catalysis Science and Technology</i> , <b>2022</b> , 12, 2398-2410	5.5	0
22	Experimental and Theoretical Investigation of Metal-Support Interactions in Metal-Oxide-Supported Rhenium Materials. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 4472-4482	3.8	0
21	Categorization of inorganic crystal structures by Delaunay tetrahedralization. <i>Science and Technology of Advanced Materials Methods</i> , <b>2022</b> , 2, 75-83		
20	A simplified methodology for the modeling of interfaces of elementary metals. <i>AIP Advances</i> , <b>2021</b> , 11, 115020	1.5	2
19	Surface activation by electron scavenger metal nanorod adsorption on TiH, TiC, TiN, and TiO. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 16577-16593	3.6	5
18	Factors determining surface oxygen vacancy formation energy in ternary spinel structure oxides with zinc. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 23768-23777	3.6	5
17	Effect of Oxygen Vacancies on Adsorption of Small Molecules on Anatase and Rutile TiO <sub>2</sub> Surfaces: A Frontier Orbital Approach. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 3827-3844	3.8	3
16	Reactions of the LiMnO Cathode in an All-Solid-State Thin-Film Battery during Cycling. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 7650-7663	9.5	1
15	Frontier Molecular Orbital Based Analysis of Solid-Adsorbate Interactions over Group 13 Metal Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 15355-15365	3.8	12
14	Surface Oxygen Vacancy Formation Energy Calculations in 34 Orientations of $\alpha$ -Ga <sub>2</sub> O <sub>3</sub> and $\alpha$ -Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 10509-10522	3.8	11
13	The effect of cation size on hydride-ion conduction in LnSrLiH <sub>2</sub> O <sub>2</sub> (Ln = La, Pr, Nd, Sm, Gd) oxyhydrides. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 24685-24694	13	5
12	Changes in Surface Oxygen Vacancy Formation Energy at Metal/Oxide Perimeter Sites: A Systematic Study on Metal Nanoparticles Deposited on an In <sub>2</sub> O <sub>3</sub> (111) Support. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 27621-27630	3.8	10
11	Finding a junction partner for candidate solar cell absorbers enargite and bournonite from electronic band and lattice matching. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 055703	2.5	13
10	Linear Correlations between Adsorption Energies and HOMO Levels for the Adsorption of Small Molecules on TiO <sub>2</sub> Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 20988-20997	3.8	13
9	Band alignment at surfaces and heterointerfaces of Al <sub>2</sub> O <sub>3</sub> , Ga <sub>2</sub> O <sub>3</sub> , In <sub>2</sub> O <sub>3</sub> , and related group-III oxide polymorphs: A first-principles study. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	18
8	Effects of composition, crystal structure, and surface orientation on band alignment of divalent metal oxides: A first-principles study. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	16
7	Density Functional Theory Calculations of Oxygen Vacancy Formation and Subsequent Molecular Adsorption on Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 29435-29444	3.8	51

6	Band structure diagram paths based on crystallography. <i>Computational Materials Science</i> , <b>2017</b> , 128, 140-184	3-2	247
5	Comparison of approximations in density functional theory calculations: Energetics and structure of binary oxides. <i>Physical Review B</i> , <b>2017</b> , 96,	3-3	58
4	Categorization of surface polarity from a crystallographic approach. <i>Computational Materials Science</i> , <b>2016</b> , 113, 221-230	3-2	31
3	Band alignment of semiconductors from density-functional theory and many-body perturbation theory. <i>Physical Review B</i> , <b>2014</b> , 90,	3-3	203
2	Valence band offsets at zinc-blende heterointerfaces with misfit dislocations: A first-principles study. <i>Physical Review B</i> , <b>2013</b> , 88,	3-3	10
1	Band offsets of CuInSe <sub>2</sub> /CdS and CuInSe <sub>2</sub> /ZnS (110) interfaces: A hybrid density functional theory study. <i>Physical Review B</i> , <b>2013</b> , 88,	3-3	38