

# Hiroki Moriwake

## List of Publications by Year in descending order

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24  
papers

922  
citations

579287

14  
h-index

686720

21  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1844  
citing authors

#	ARTICLE	IF	CITATIONS
1	Why is sodium-intercalated graphite unstable?. RSC Advances, 2017, 7, 36550-36554.	3.7	217
2	Oxygen Vacancy Ordering at Surfaces of Lithium Manganese(III,IV) Oxide Spinel Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 3053-3057.	14.8	129
3	Oxygen loss and surface degradation during electrochemical cycling of lithium-ion battery cathode material $\text{LiMn}_2\text{O}_4$ . Journal of Materials Chemistry A, 2019, 7, 8845-8854.	10.5	69
4	Domain boundary structures in lanthanum lithium titanates. Journal of Materials Chemistry A, 2014, 2, 843-852.	10.5	68
5	Ferroelectricity Driven by Twisting of Silicate Tetrahedral Chains. Angewandte Chemie - International Edition, 2013, 52, 8088-8092.	14.8	64
6	Ferroelectricity in wurtzite structure simple chalcogenide. Applied Physics Letters, 2014, 104, .	3.2	60
7	Mechanism for suppression of ferroelectricity in $\text{Cd}_{1-x}\text{Ca}_x\text{TiO}_3$ . Physical Review B, 2011, 84, .	3.3	41
8	Cation ordering in A-site-deficient Li-ion conducting perovskites $\text{La}_{(1-x)/3}\text{Li}_x\text{NbO}_3$ . Journal of Materials Chemistry A, 2015, 3, 3351-3359.	10.5	37
9	Mechanism of polarization switching in wurtzite-structured zinc oxide thin films. Applied Physics Letters, 2016, 109, .	3.2	36
10	Density functional study of the phase stability and Raman spectra of $\text{Yb}_2\text{O}_3$ , $\text{Yb}_2\text{SiO}_5$ and $\text{Yb}_2\text{Si}_2\text{O}_7$ under pressure. Physical Chemistry Chemical Physics, 2018, 20, 16518-16527.	2.9	33
11	Structural Distortion and Compositional Gradients Adjacent to Epitaxial $\text{LiMn}_2\text{O}_4$ Thin Film Interfaces. Advanced Materials Interfaces, 2014, 1, 1400143.	4.1	30
12	A computational search for wurtzite-structured ferroelectrics with low coercive voltages. APL Materials, 2020, 8, .	4.8	27
13	Epitaxial Growth of $\text{LiMn}_2\text{O}_4$ Thin Films by Chemical Solution Deposition for Multilayer Lithium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 19540-19547.	3.3	26
14	$\text{ZnTa}_2\text{O}_7$ : Stabilized High-Temperature $\text{LiNbO}_3$ -type Structure. Journal of the American Chemical Society, 2016, 138, 15950-15955.	14.6	26
15	Chemical design of a new displacive-type ferroelectric. Dalton Transactions, 2022, 51, 2610-2630.	3.4	12
16	Atomic-Level Changes during Electrochemical Cycling of Oriented $\text{LiMn}_2\text{O}_4$ Cathodic Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 6507-6517.	8.3	12
17	Investigation of ferrimagnetism and ferroelectricity in $\text{Al}_x\text{Fe}_{2-x}\text{O}_3$ thin films. Journal of Materials Chemistry C, 2020, 8, 706-714.	5.6	9
18	Isolated energy level in the band gap of $\text{YbMn}_2\text{O}_7$ identified by electron energy-loss spectroscopy. Physical Review B, 2016, 93, .	3.3	8

#	ARTICLE	IF	CITATIONS
19	Effect of Ca-Substitution on CdTiO <sub>3</sub> Studied by Raman Scattering and First Principles Calculations. <i>Ferroelectrics</i> , 2012, 426, 268-273.	0.6	7
20	Oxide-ion diffusion in brownmillerite-type Ca <sub>2</sub> AlMnO <sub>5</sub> from first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1503-1509.	2.9	4
21	Crystal structure and properties of perovskite-type rubidium niobate, a high-pressure phase of RbNbO <sub>3</sub> . <i>Dalton Transactions</i> , 2024, 53, 7044-7052.	3.4	1
22	First-principles study of the ferroelectric phase of AgNbO <sub>3</sub> . , 2019, , 137-159.		0
23	Fabrication and characterization of ReO <sub>3</sub> -type dielectric films. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4680-4684.	5.6	0
24	Ferroelectric Materials Study Using First-principles Calculations. <i>Materia Japan</i> , 2020, 59, 78-83.	0.1	0