

# Masanobu Nakayama

## List of Publications by Citations

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25  
papers

299  
citations

9  
h-index

17  
g-index

26  
ext. papers

442  
ext. citations

7.4  
avg, IF

3.76  
L-index

#	Paper	IF	Citations
25	Understanding the ionic conductivity maximum in doped ceria: trapping and blocking. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 14291-14321	3.6	87
24	Zinc-based spinel cathode materials for magnesium rechargeable batteries: toward the reversible spinel rocksalt transition. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12225-12235	13	36
23	Multiorbital bond formation for stable oxygen-redox reaction in battery electrodes. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1492-1500	35.4	33
22	Bayesian-optimization-guided experimental search of NASICON-type solid electrolytes for all-solid-state Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15103-15109	13	21
21	Structure Design of Long-Life Spinel-Oxide Cathode Materials for Magnesium Rechargeable Batteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007539	24	18
20	Metastable Chloride Solid Electrolyte with High Formability for Rechargeable All-Solid-State Lithium Metal Batteries <b>2020</b> , 2, 880-886		15
19	Computational investigation of the Mg-ion conductivity and phase stability of MgZr(PO) <sub>4</sub> . <i>RSC Advances</i> , <b>2019</b> , 9, 12590-12595	3.7	13
18	Exhaustive and informatics-aided search for fast Li-ion conductor with NASICON-type structure using material simulation and Bayesian optimization. <i>APL Materials</i> , <b>2020</b> , 8, 041112	5.7	13
17	High-throughput production of force-fields for solid-state electrolyte materials. <i>APL Materials</i> , <b>2020</b> , 8, 081111	5.7	9
16	Asymmetry in the Solvation-Desolvation Resistance for Li Metal Batteries. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 3499-3502	7.8	8
15	Efficient Experimental Search for Discovering a Fast Li-Ion Conductor from a Perovskite-Type Li <sub>x</sub> La <sub>(1-x)/3</sub> NbO <sub>3</sub> (LLNO) Solid-State Electrolyte Using Bayesian Optimization. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 152-160	3.8	8
14	Descriptors for dielectric constants of perovskite-type oxides by materials informatics with first-principles density functional theory. <i>Science and Technology of Advanced Materials</i> , <b>2020</b> , 21, 92-99	7.1	6
13	Arrangement in La <sub>1/3</sub> NbO <sub>3</sub> Obtained by First-Principles Density Functional Theory with Cluster Expansion and Monte Carlo Simulation. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 9746-9754	3.8	5
12	Molecular Dynamics Simulation of Li-Ion Conduction at Grain Boundaries in NASICON-Type LiZr <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Solid Electrolytes. <i>Journal of Physical Chemistry C</i> ,	3.8	5
11	First-Principles Density Functional Theory Calculations for Formic Acid Adsorption onto Hydro-Garnet Compounds. <i>ACS Omega</i> , <b>2020</b> , 5, 4083-4089	3.9	4
10	Laplace transform impedance analysis in the two-phase coexistence reaction of spinel Li <sub>1+x</sub> Mn <sub>2</sub> O <sub>4</sub> positive electrode. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 1137-1143	2.6	3
9	Universal solid-state oxygen redox in antiferroelectric lithium oxides via transition metal doping. <i>Materials Advances</i> , <b>2020</b> , 1, 1301-1306	3.3	3

8	High Formability and Fast Lithium Diffusivity in Metastable Spinel Chloride for Rechargeable All-Solid-State Lithium-Ion Batteries. <i>Advanced Energy and Sustainability Research</i> , <b>2020</b> , 1, 2000025	1.6	3
7	First-Principles DFT Study on Inverse Ruddlesden-Popper Tetragonal Compounds as Solid Electrolytes for All-Solid-State Li <sup>+</sup> -Ion Batteries. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 5859-5871	9.6	3
6	Catalytic mechanism of spinel oxides for oxidative electrolyte decomposition in Mg rechargeable batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 26401-26409	13	2
5	Promoting Reversible Cathode Reactions in Magnesium Rechargeable Batteries Using Metastable Cubic MgMn <sub>2</sub> O <sub>4</sub> Spinel Nanoparticles. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 8328-8333	5.6	2
4	Structural Transition with a Sharp Change in the Electrical Resistivity and Spin-Orbit Mott Insulating State in a Rhenium Oxide, SrReO. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 507-514	5.1	2
3	Synthesis and structural characterization of U-phase, [3Ca <sub>2</sub> Al(OH) <sub>6</sub> ][Na(H <sub>2</sub> O) <sub>6</sub> (SO <sub>4</sub> ) <sub>2</sub> ·6H <sub>2</sub> O] layered double hydroxide. <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 122730	3.3	0
2	First-principles study of the morphology and surface structure of LaCoO <sub>3</sub> and La <sub>0.5</sub> Sr <sub>0.5</sub> Fe <sub>0.5</sub> Co <sub>0.5</sub> O <sub>3</sub> perovskites as air electrodes for solid oxide fuel cells. <i>Science and Technology of Advanced Materials Methods</i> , <b>2021</b> , 1, 24-33		0
1	Octahedral Tilting and Modulation Structure in Perovskite-Related Compound La <sub>1/3</sub> NbO <sub>3</sub> . <i>Physica Status Solidi (B): Basic Research</i> , 2100561	1.3	