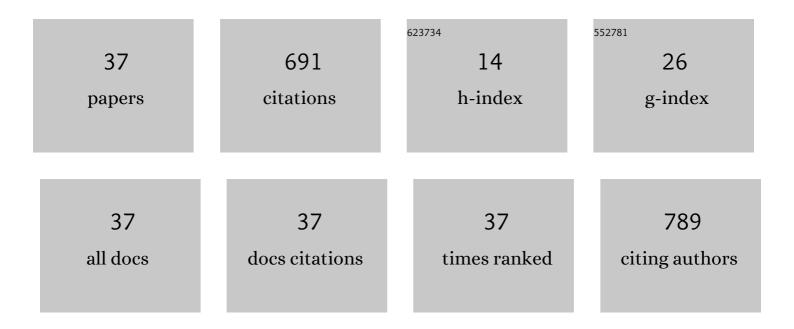
## Ryota Shimizu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Negligible "Negative Space-Charge Layer Effects―at Oxide-Electrolyte/Electrode Interfaces of Thin-Film Batteries. Nano Letters, 2015, 15, 1498-1502.	9.1	119
2	Autonomous materials synthesis by machine learning and robotics. APL Materials, 2020, 8, .	5.1	69
3	Fabrication of all-solid-state battery using epitaxial LiCoO2 thin films. Journal of Power Sources, 2014, 267, 881-887.	7.8	65
4	Atomically Well-Ordered Structure at Solid Electrolyte and Electrode Interface Reduces the Interfacial Resistance. ACS Applied Materials & amp; Interfaces, 2018, 10, 41732-41737.	8.0	58
5	Preparation and in-situ characterization of well-defined solid electrolyte/electrode interfaces in thin-film lithium batteries. Solid State Ionics, 2016, 285, 118-121.	2.7	47
6	Growth processes of lithium titanate thin films deposited by using pulsed laser deposition. Applied Physics Letters, 2012, 101, .	3.3	45
7	Extremely Low Resistance of Li <sub>3</sub> PO <sub>4</sub> Electrolyte/Li(Ni <sub>0.5</sub> Mn <sub>1.5</sub> )O <sub>4</sub> Electrode Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 27498-27502.	8.0	41
8	Scanning tunnelling spectroscopy of superconductivity on surfaces of LiTi2O4(111) thin films. Nature Communications, 2017, 8, 15975.	12.8	24
9	Effects of Anisotropy in Rutile TiO <sub>2</sub> on the Performance of Solid-State Lithium Batteries. ACS Applied Energy Materials, 2020, 3, 8338-8343.	5.1	20
10	Low resistance at LiNi1/3Mn1/3Co1/3O2 and Li3PO4 interfaces. Applied Physics Letters, 2020, 116, .	3.3	18
11	Low Interface Resistance in Solid-State Lithium Batteries Using Spinel LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> (111) Epitaxial Thin Films. ACS Applied Energy Materials, 2020, 3, 1358-1363.	5.1	18
12	Bottom-current-collector-free thin-film batteries using LiNi0.8Co0.2O2 epitaxial thin films. Journal of Power Sources, 2019, 416, 56-61.	7.8	16
13	Fabrication of atomically abrupt interfaces of single-phase TiH2 and Al2O3. APL Materials, 2017, 5, .	5.1	15
14	Impact of the Crystal Orientation of Positive Electrodes on the Interface Resistance across a Solid Electrolyte and Electrode. ACS Applied Energy Materials, 2020, 3, 6416-6421.	5.1	14
15	A nonvolatile memory device with very low power consumption based on the switching of a standard electrode potential. APL Materials, 2017, 5, .	5.1	13
16	Hole Accumulation at the Grain Boundary Enhances Water Oxidation at α-Fe <sub>2</sub> O <sub>3</sub> Electrodes under a Microwave Electric Field. Journal of Physical Chemistry C, 2020, 124, 7749-7759.	3.1	10
17	Tuning the Schottky Barrier Height at the Interfaces of Metals and Mixed Conductors. ACS Applied Materials & Interfaces, 2021, 13, 15746-15754.	8.0	10
18	Epitaxial Growth of Single-Phase Magnesium Dihydride Thin Films. Inorganic Chemistry, 2019, 58, 15354-15358.	4.0	9

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#	Article	IF	CITATIONS
19	Drastic Reduction of the Solid Electrolyte–Electrode Interface Resistance via Annealing in Battery Form. ACS Applied Materials & Interfaces, 2022, 14, 2703-2710.	8.0	9
20	Repeatable Photoinduced Insulator-to-Metal Transition in Yttrium Oxyhydride Epitaxial Thin Films. Chemistry of Materials, 2022, 34, 3616-3623.	6.7	8
21	A hysteresis loop in electrical resistance of NbHx observed above the βâ~'λ transition temperature. AlP Advances, 2019, 9, 015027.	1.3	7
22	Relaxation of the Interface Resistance between Solid Electrolyte and 5 V-Class Positive Electrode. Nano Letters, 2021, 21, 5572-5577.	9.1	7
23	Metal Hydrides: Epitaxial Growth and Electronic Properties. Journal of the Physical Society of Japan, 2020, 89, 051012.	1.6	6
24	Low-Energy-Consumption Three-Valued Memory Device Inspired by Solid-State Batteries. ACS Applied Materials & Interfaces, 2019, 11, 45150-45154.	8.0	5
25	Epitaxial Thin Film Growth of Europium Dihydride. Crystal Growth and Design, 2020, 20, 5903-5907.	3.0	5
26	Origin of Optical Transparency in a Transparent Superconductor LiTi2O4. ACS Applied Electronic Materials, 2020, 2, 517-522.	4.3	5
27	Clean Solid–Electrolyte/Electrode Interfaces Double the Capacity of Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 5861-5865.	8.0	5
28	Synthesis of High-Entropy Layered Oxide Epitaxial Thin Films: LiCr <sub>1/6</sub> Mn <sub>1/6</sub> Fe <sub>1/6</sub> Co <sub>1/6</sub> Ni <sub>1/6</sub> Cu <sub>1/6Crystal Growth and Design, 2022, 22, 1116-1122.</sub>	ub <b>30</b> <sul< td=""><td>ɔ&gt;2≅/sub&gt;.</td></sul<>	ɔ>2≅/sub>.
29	Ultrahigh-pressure fabrication of single-phase α-PbO2-type TiO2 epitaxial thin films. AIP Advances, 2020, 10, 025125.	1.3	4
30	Bayesian statistics-based analysis of AC impedance spectra. AIP Advances, 2020, 10, .	1.3	3
31	Diffusion of F atoms from fluoride substrates promotes the epitaxial growth of metal fluorides. Applied Physics Express, 2020, 13, 085507.	2.4	3
32	Polarity reversal of the charge carrier in tetragonal TiHx(x=1.6â^'2.0) at low temperatures. Physical Review Research, 2020, 2, .	3.6	3
33	Bayesian sparse modeling of extended x-ray absorption fine structure to determine interstitial oxygen positions in yttrium oxyhydride epitaxial thin film. AIP Advances, 2021, 11, .	1.3	2
34	Tuning of Bayesian optimization for materials synthesis: simulation of the one-dimensional case. Science and Technology of Advanced Materials Methods, 2022, 2, 119-128.	1.3	2
35	Ionic Rectification across Ionic and Mixed Conductor Interfaces. Nano Letters, 2021, 21, 10086-10091.	9.1	1
36	Impact of Surface Roughness on Recrystallization of an α-Al2O3(001) Single Crystal to α-AlO(OH) Diaspore Microcrystals. ACS Omega, 2020, 5, 23520-23523.	3.5	0

#	Article	IF	CITATIONS
37	Epitaxial Growth of EuF2 and EuO Thin Films Based on Spontaneous Anion Diffusion from Substrates. Crystal Growth and Design, 2021, 21, 4468-4472.	3.0	Ο