Katsuhiro Nomura

List of Publications by Year
in descending order

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24	606	687363 13	610901 24
papers	citations	h-index	g-index

24	24	24	642
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transport properties of Ba(Zr0.8Y0.2)O3â˜Î´ perovskite. Solid State Ionics, 2007, 178, 661-665.	2.7	142
2	Nanocomposite electrodes for high current density over 3â€‰Aâ€‰cmâ˜2 in solid oxide electrolysis cells. Nature Communications, 2019, 10, 5432.	12.8	79
3	Proton conduction in doped LaScO3 perovskites. Solid State Ionics, 2004, 175, 553-555.	2.7	65
4	Effect of Ni diffusion into BaZr0.1Ce0.7Y0.1Yb0.1O3â˜ electrolyte during high temperature co-sintering in anode-supported solid oxide fuel cells. Ceramics International, 2018, 44, 3134-3140.	4.8	44
5	Massive red shift of Ce³⁺in Y₃Al₅O₁₂incorporating super-high content of Ce. RSC Advances, 2020, 10, 12535-12546.	3.6	32
6	Synthesis of Various LaMO3Perovskites in Molten Carbonates. Journal of the American Ceramic Society, 2006, 89, 3610-3616.	3.8	28
7	A Key for Achieving Higher Open-Circuit Voltage in Protonic Ceramic Fuel Cells: Lowering Interfacial Electrode Polarization. ACS Applied Energy Materials, 2019, 2, 587-597.	5.1	28
8	High temperature crystallographic study of (La0.9Sr0.1)MIIIO3â˜Î´ (MIII=Sc, In, and Lu) perovskite proton conductor. Solid State Ionics, 2003, 162-163, 99-104.	2.7	25
9	Improved transport property of proton-conducting solid oxide fuel cell with multi-layered electrolyte structure. Journal of Power Sources, 2017, 364, 458-464.	7.8	22
10	Relationship between crystal structure and oxide-ion conduction in <i>Ln</i>₂Zr₂O₇ (<i>Ln</i> = Eu, Nd and La) system deduced by neutron and X-ray diffraction. Journal of the Ceramic Society of Japan, 2013, 121, 205-210.	1.1	20
11	Formation of C-type rare earth structures in the Ce1-xNdxO2-.DELTA. system: a factor in the decrease in oxide-ion conductivity. Journal of the Ceramic Society of Japan, 2009, 117, 1306-1310.	1.1	17
12	Noble Metal Collection through Air: Perovskite Oxide as a Novel Collector. ChemPhysChem, 2011, 12, 109-111.	2.1	15
13	Neutron diffraction study of LaScO3-based proton conductor. Solid State Ionics, 2014, 262, 841-844.	2.7	14
14	Solubilization of Rhodium in Hydrochloric Acid Using an Alkali Metal Salt Method. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 377-385.	2.1	14
15	Protonic Ceramic Fuel Cell with Bi-Layered Structure of BaZr_{0.1}Ce_{0.7}Y_{0.1}Yb_{0.1}O_{3â€“Î´} Functional Interlayer and BaZr_{0.8}Yb_{0.2}O_{3â€“Î´} Electrolyte. Journal of the Electrochemical Society, 2021, 168, 124504.	2.9	13
16	Additive effect of NiO on electrochemical properties of mixed ion conductor BaZr_{0.1}Ce_{0.7}Y_{0.1}Yb_{0.1}O<sub>3&a Journal of the Ceramic Society of Japan, 2017, 125, 257-261.	1	
17	Near room temperature synthesis of perovskite oxides. Ceramics International, 2019, 45, 24936-24940.	4.8	9
18	Ultramarine colored: Solid-phase elution of Pt into perovskite oxides. Journal of Materials Research, 2007, 22, 2647-2650.	2.6	8

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19	Phase Transitions, Thermal Expansions, Chemical Expansions, and CO₂ Resistances of Ba(Ce_{0.8-x}Zr_xY_{0.1}Yb_{0.1})O_{3-Î´} (x = 0.1, 0.4) Perovskite-Type Proton Conductors. Journal of the Electrochemical Society, 2022, 169, 024516.	2.9	6
20	Unusually Small Thermal Expansion of Ordered Perovskite Oxide CaCu3Ru4O12 with High Conductivity. Materials, 2018, 11, 1650.	2.9	5
21	Chemical Reactivities of LaScO3-based Perovskite Oxides and Platinum. Chemistry Letters, 2013, 42, 1268-1270.	1.3	4
22	XAFS Analysis of Pt and Pt-Ru Catalysts for PEFCs by In-Situ Measurements under Operating Conditions in the Fluorescence Mode. AIP Conference Proceedings, 2007, , .	0.4	2
23	Molten Salt Liquidâ€“Liquid Immiscibility, KNO₃â€“ (Li_{0.435}Na_{0.315}K_{0.25})₂CO₃at 773 K and Cation Distribution between Two Liquids. Journal of the Electrochemical Society, 2016, 163, H584-H587.	2.9	2
24	Crystal Structure and Proton Conduction Path of Perovskite-type Oxides by Using a Laboratory X-ray Diffractometer with a Parallel Beam Optics. Nihon Kessho Gakkaishi, 2008, 50, 155-160.	0.0	2