

# Junji Hyodo

## List of Publications by Year in descending order

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44  
papers

1,153  
citations

430874

18  
h-index

377865

34  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of Oxide Ion Conductivity in Ba-Doped LaYbO <sub>3</sub> Proton-Conducting Perovskites via an Oxygen Isotope Exchange Method. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1703-1713.	3.1	9
2	Water Vapor Reduces the Effect of Cl-Poisoning on CO Oxidation over Pt/CeO <sub>2</sub> Heterogeneous Catalysts. <i>Chemistry Letters</i> , 2021, 50, 888-891.	1.3	1
3	Non-linear Behavior for Chemical Expansion in Yttrium-doped Barium Zirconate upon Hydration. <i>Chemistry Letters</i> , 2021, 50, 899-902.	1.3	8
4	Accelerated Discovery of Proton-Conducting Perovskite Oxide by Capturing Physicochemical Fundamentals of Hydration. <i>ACS Energy Letters</i> , 2021, 6, 2985-2992.	17.4	24
5	Oxygen Affinity: The Missing Link Enabling Prediction of Proton Conductivities in Doped Barium Zirconates. <i>Chemistry of Materials</i> , 2020, 32, 7292-7300.	6.7	25
6	Fast and Stable Proton Conduction in Heavily Scandium-Doped Polycrystalline Barium Zirconate at Intermediate Temperatures. <i>Advanced Energy Materials</i> , 2020, 10, 2000213.	19.5	53
7	Defect Density-Dependent Electron Injection from Excited-State Ru(II) Tris-Diimine Complexes into Defect-Controlled Oxide Semiconductors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28310-28318.	3.1	9
8	Bolometric ferromagnetic resonance techniques for characterising spin-Hall effect at high temperatures. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 485, 304-307.	2.3	6
9	Crucial impact of reduction on the photocarrier dynamics of SrTiO <sub>3</sub> powders studied by transient absorption spectroscopy. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26139-26146.	10.3	21
10	Homogeneous Electron Doping into Nonstoichiometric Strontium Titanate Improves Its Photocatalytic Activity for Hydrogen and Oxygen Evolution. <i>ACS Catalysis</i> , 2018, 8, 7190-7200.	11.2	34
11	Evaluation of isotope diffusion coefficient and surface exchange coefficient of ScSZ series oxide by oxygen isotope exchange method. <i>Solid State Ionics</i> , 2017, 301, 156-162.	2.7	7
12	Structural, Electrical, and Electrochemical Characteristics of LnBa <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>1.5</sub> Fe <sub>0.5</sub> O <sub>5+δ</sub> (Ln=Pr, Y) Tj ETQq0 0 0,rgBT /Over 2017, 5, 1337-1343.	3.8	23
13	Boron deposition and poisoning of La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3</sub> oxygen electrodes of solid oxide electrolysis cells under accelerated operation conditions. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1419-1431.	7.1	32
14	A robust symmetrical electrode with layered perovskite structure for direct hydrocarbon solid oxide fuel cells: PrBa <sub>0.8</sub> Ca <sub>0.2</sub> Mn <sub>2</sub> O <sub>5+δ</sub> . <i>Journal of Materials Chemistry A</i> , 2016, 4, 1747-1753.	10.3	93
15	Effects of Pt dispersion on electronic and oxide ionic conductivity in Pr <sub>1.90</sub> Ni <sub>0.71</sub> Cu <sub>0.24</sub> Ga <sub>0.05</sub> O <sub>4</sub> . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11125-11131.	2.8	2
16	Effects of three-dimensional mechano-chemical tensile strain on fast oxygen diffusion in Au-dispersed Pr <sub>1.90</sub> Ni <sub>0.71</sub> Cu <sub>0.24</sub> Ga <sub>0.05</sub> O <sub>4+δ</sub> . <i>Journal of Materials Chemistry A</i> , 2016, 4, 3844-3849.	10.3	5
17	Ruddlesden Popper oxides of LnSr <sub>3</sub> Fe <sub>3</sub> O <sub>10+δ</sub> (Ln = La, Pr, Nd, Sm,) Tj ETQq1 1 0.784314 rgBT /Over 2015, 3, 12357-12366.	10.3	31
18	A dense La(Sr)Fe(Mn)O <sub>3+δ</sub> nano-film anode for intermediate-temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3586-3593.	10.3	7

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19	Chromium deposition and poisoning of La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3</sub> oxygen electrodes of solid oxide electrolysis cells. Faraday Discussions, 2015, 182, 457-476.	3.2	41
20	Correlation between fast oxygen kinetics and enhanced performance in Fe doped layered perovskite cathodes for solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 15082-15090.	10.3	48
21	Chromium Deposition and Poisoning of LSCF and LSM Oxygen Electrodes of Solid Oxide Electrolysis Cells. ECS Transactions, 2015, 68, 793-799.	0.5	4
22	Low temperature operation of a solid-oxide Fe-air rechargeable battery using a La <sub>0.9</sub> Sr <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3</sub> oxide ion conductor. Journal of Materials Chemistry A, 2015, 3, 8260-8264.	10.3	11
23	Effects of Three-Dimensional Strain on Electric Conductivity in Au-Dispersed Pr <sub>1.90</sub> Ni <sub>0.71</sub> Cu <sub>0.24</sub> Ga <sub>0.05</sub> O <sub>4+δ</sub> . Journal of Physical Chemistry C, 2015, 119, 5-13.	3.1	14
24	Titelbild: Development of Double-Perovskite Compounds as Cathode Materials for Low-Temperature Solid Oxide Fuel Cells (Angew. Chem. 48/2014). Angewandte Chemie, 2014, 126, 13187-13187.	2.0	0
25	Effect of Volatile Boron Species on the Electrocatalytic Activity of Cathodes of Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2014, 161, F1163-F1170.	2.9	17
26	Ce(Mn,Fe)O <sub>2</sub> dense film deposited on LaGaO <sub>3</sub> electrolyte for dense anode of solid oxide fuel cells. International Journal of Hydrogen Energy, 2014, 39, 20777-20782.	7.1	0
27	Double Columnar Structure with a Nanogradient Composite for Increased Oxygen Diffusivity and Reduction Activity. Advanced Energy Materials, 2014, 4, 1400783.	19.5	11
28	Surface segregation and poisoning in materials for low-temperature SOFCs. MRS Bulletin, 2014, 39, 810-815.	3.5	47
29	Oxide ionic conductivity in Pr <sub>2</sub> (Ni, Cu, Ga)O <sub>4+δ</sub> -(Ce, Sm)O <sub>2</sub> laminated film estimated with the Hebb-Wagner method. Solid State Ionics, 2014, 262, 889-892.	2.7	2
30	Electrical conductivity and oxygen diffusivity in Cu- and Ga-doped Pr <sub>2</sub> NiO <sub>4</sub> . Solid State Ionics, 2014, 256, 5-10.	2.7	32
31	Development of Double-Perovskite Compounds as Cathode Materials for Low-Temperature Solid Oxide Fuel Cells. Angewandte Chemie - International Edition, 2014, 53, 13064-13067.	13.8	176
32	(Invited) Increased Oxide Ion Diffusivity and Surface Exchange on Pr <sub>2</sub> NiO <sub>4</sub> Base Oxide by Au Dispersion. ECS Transactions, 2014, 61, 123-129.	0.5	2
33	Boron Poisoning of (La, Sr)(Co, Fe)O <sub>3</sub> Cathodes of Solid Oxide Fuel Cells. ECS Transactions, 2013, 57, 1821-1830.	0.5	1
34	XRD and Raman Spectroscopy Study of Mn Solubility in Cerium Oxide. ECS Transactions, 2013, 57, 1607-1612.	0.5	8
35	Effect of Boron Deposition and Poisoning on the Surface Exchange Properties of LSCF Electrode Materials of Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2013, 160, F682-F686.	2.9	35
36	Electronic and oxide ion conductivity in Pr <sub>2</sub> Ni <sub>0.71</sub> Cu <sub>0.24</sub> Ga <sub>0.05</sub> O <sub>4</sub> /Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>2</sub> laminated film. Solid State Ionics, 2013, 230, 16-20.	2.7	12

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37	Effect of Volatile Boron Species on the Microstructure and Composition of (La,Sr)MnO <sub>3</sub> and (La,Sr)(Co,Fe)O <sub>3</sub> Cathode Materials of Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2013, 160, F1033-F1039.	2.9	19
38	XRD and Raman Spectroscopy Study of Fe solubility in Cerium Oxide. ECS Transactions, 2013, 50, 53-58.	0.5	12
39	New buffer layer material La(Pr)CrO <sub>3</sub> for intermediate temperature solid oxide fuel cell using LaGaO <sub>3</sub> -based electrolyte film. Journal of Materials Research, 2012, 27, 1906-1914.	2.6	6
40	Single-nanosize pulverization of solid oxide by means of a wet planetary-bead-milling. Journal of the Ceramic Society of Japan, 2012, 120, 39-42.	1.1	3
41	Improved electrical conductivity in Pr <sub>2</sub> Ni(Cu,Ga)O <sub>4</sub> film with nano thickness. International Journal of Hydrogen Energy, 2012, 37, 8066-8072.	7.1	5
42	Effect of doped ceria interlayer on cathode performance of the electrochemical cell using proton conducting oxide. Electrochimica Acta, 2012, 75, 179-184.	5.2	6
43	Synthesis and Photocatalytic Activity of Rhodium-Doped Calcium Niobate Nanosheets for Hydrogen Production from a Water/Methanol System without Cocatalyst Loading. Journal of the American Chemical Society, 2011, 133, 18034-18037.	13.7	205
44	High Sinterability of Planetary-Bead-Milled Barium Zirconate. Electrochemistry, 2009, 77, 876-878.	1.4	9