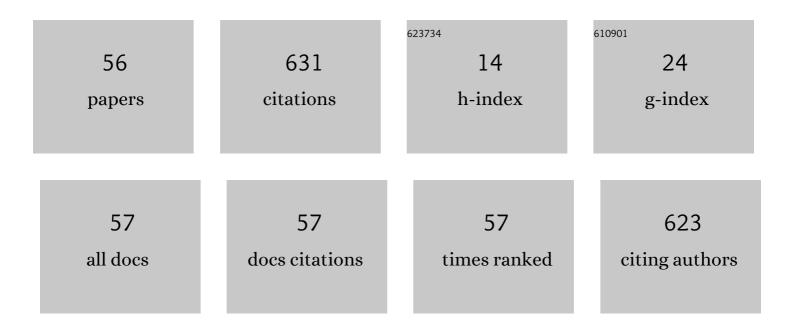
Yuya Tachikawa

List of Publications by Year in descending order

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ΥΠΛΥ ΤΛΟΗΙΚΑΝΑΛ

#	Article	IF	CITATIONS
1	Effect of proton-conduction in electrolyte on electric efficiency of multi-stage solid oxide fuel cells. Scientific Reports, 2015, 5, 12640.	3.3	69
2	SOFC Durability against Standby and Shutdown Cycling. Journal of the Electrochemical Society, 2014, 161, F850-F860.	2.9	62
3	SOFC anodes impregnated with noble metal catalyst nanoparticles for high fuel utilization. International Journal of Hydrogen Energy, 2019, 44, 8502-8518.	7.1	58
4	Exchange Current Density of Solid Oxide Fuel Cell Electrodes. ECS Transactions, 2011, 35, 1007-1014.	0.5	43
5	Simulation of SOFC performance using a modified exchange current density for pre-reformed methane-based fuels. International Journal of Hydrogen Energy, 2020, 45, 6912-6925.	7.1	39
6	Physicochemical properties of Ba(Zr,Ce)O3-δ-based proton-conducting electrolytes for solid oxide fuel cells in terms of chemical stability and electrochemical performance. International Journal of Hydrogen Energy, 2017, 42, 16722-16730.	7.1	35
7	Anode gas recirculation for improving the performance and cost of a 5-kW solid oxide fuel cell system. Journal of Power Sources, 2016, 325, 229-237.	7.8	32
8	Physicochemical properties of proton-conductive Ba(Zr0.1Ce0.7Y0.1Yb0.1)O3â^î^ solid electrolyte in terms of electrochemical performance of solid oxide fuel cells. International Journal of Hydrogen Energy, 2016, 41, 17539-17547.	7.1	30
9	Correlating Cathode Microstructure with PEFC Performance Using FIB-SEM and TEM. Journal of the Electrochemical Society, 2017, 164, F928-F934.	2.9	27
10	Accelerated Durability Testing of Fuel Cell Stacks for Commercial Automotive Applications: A Case Study. Journal of the Electrochemical Society, 2022, 169, 044523.	2.9	22
11	Study of the solid-state reaction at the interface between lanthanoid-doped ceria and yttria-stabilized zirconia for solid-oxide fuel cell applications. Solid State Ionics, 2015, 282, 1-6.	2.7	20
12	High-pressure C-H-O diagrams: Fuel composition, carbon deposition, and open circuit voltage of pressurized SOFCs. International Journal of Hydrogen Energy, 2017, 42, 30769-30786.	7.1	19
13	Oxidation-induced degradation and performance fluctuation of solid oxide fuel cell Ni anodes under simulated high fuel utilization conditions. International Journal of Hydrogen Energy, 2019, 44, 9386-9399.	7.1	19
14	Alternative Ni-Impregnated Mixed Ionic-Electronic Conducting Anode for SOFC Operation at High Fuel Utilization. Journal of the Electrochemical Society, 2017, 164, F3055-F3063.	2.9	17
15	Suppression of Leakage Current in Proton-Conducting BaZr _{0.8} Y _{0.2} O _{3â~Î} Electrolyte by Forming Hole-Blocking Layer. Journal of the Electrochemical Society, 2020, 167, 084515.	2.9	16
16	A solid polymer water electrolysis system utilizing natural circulation. International Journal of Hydrogen Energy, 2014, 39, 16263-16274.	7.1	13
17	Proposal of ultra-high-efficiency zero-emission power generation systems. Journal of Power Sources, 2020, 448, 227459.	7.8	13
18	Degradation of SOFCs by Various Impurities: Impedance Spectroscopy and Microstructural Analysis. ECS Transactions, 2017, 78, 1253-1260.	0.5	11

ΥυγΑ ΤΑCΗΙΚΑΨΑ

#	Article	IF	CITATIONS
19	Exchange current density of reversible solid oxide cell electrodes. International Journal of Hydrogen Energy, 2022, 47, 16626-16639.	7.1	9
20	In Operando Visualization of SOFC Electrodes by Thermography and Visible Light Imaging. ECS Electrochemistry Letters, 2015, 4, F61-F64.	1.9	7
21	Oxidation-Induced Degradation of SOFC Ni Anodes at High Fuel Utilizations. ECS Transactions, 2015, 68, 1345-1352.	0.5	7
22	Characterization of yttrium-doped ceria with various yttrium concentrations as cathode interlayers of SOFCs. Ionics, 2017, 23, 95-103.	2.4	6
23	Modified Energy Efficiencies of Protonâ€conducting SOFCs with Partial Conductions of Oxideâ€ions and Holes. Fuel Cells, 2019, 19, 503-511.	2.4	6
24	New Applications of SOFC-MGT Hybrid Power Generation System for Low-Carbon Society. ECS Transactions, 2017, 78, 197-208.	0.5	5
25	Improved Redox Cycling Durability in Alternative Ni Alloy-Based SOFC Anodes. Journal of the Electrochemical Society, 2020, 167, 124517.	2.9	5
26	Influence of Cathode Polarization on the Chromium Poisoning of SOFC Cathodes Consisting of LSM, LSCF and LNF. ECS Transactions, 2013, 50, 21-25.	0.5	4
27	Process Analysis for Achieving Highly Enhanced Total Efficiency on Multi-Stage Fuel Supplied SOFC System. ECS Transactions, 2015, 68, 3107-3113.	0.5	4
28	Visualization and mechanical strength of glass seal in planar type solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 21754-21766.	7.1	4
29	DRT Analysis of Solid Oxide Electrolysis Cells: Polarization Resistance of Fuel Electrodes. ECS Transactions, 2021, 103, 1981-1989.	0.5	4
30	A Parametric Study of SOFC Performances with Multi-Stage Electrochemical Oxidation for Enhancement of Electric Efficiency. ECS Transactions, 2015, 68, 1961-1968.	0.5	3
31	Relationship between Electrochemical Properties and Electrolyte Partial Conductivities of Proton-Conducting Ceramic Fuel Cells. ECS Transactions, 2017, 78, 441-450.	0.5	3
32	Leakage Current and Chemical Potential Profile in Proton-Conducting Bi-Layered Solid Oxide Electrolyte with BZY and Hole-Blocking Layers. ECS Transactions, 2019, 91, 1009-1018.	0.5	3
33	Smart Fuel Cell Demonstration Project: A Challenge to Realize SOFC-Powered Campus. ECS Transactions, 2015, 68, 171-178.	0.5	2
34	Glass Shape Change during Firing for Improving the Seal of Planar SOFCs. ECS Transactions, 2017, 78, 1731-1737.	0.5	2
35	Alternative SOFC Anode Materials with Ion– and Electron–Conducting Backbones for Higher Fuel Utilization. ECS Transactions, 2017, 78, 1179-1187.	O.5	2
36	Reversible Solid Oxide Cells: Durability of Fuel Electrodes Against Voltage Cycling. ECS Transactions, 2021, 103, 375-382.	0.5	2

ΥυγΑ ΤΑCΗΙΚΑΨΑ

#	Article	IF	CITATIONS
37	Preparation of Model SOFCs with Proton-Conducting Electrolyte on Metal Support Using Pulse Laser Deposition. ECS Transactions, 2021, 103, 2033-2040.	0.5	2
38	Finite Element Analysis of a Two-Dimensional Sandwich Model for the Inspection of Fuel Cell Internal Characteristics. Journal of Computational Science and Technology, 2009, 3, 488-498.	0.4	1
39	A FIB-SEM Study on Correlations between PEFC Electrocatalyst Microstructure and Cell Performance. ECS Transactions, 2015, 69, 709-714.	0.5	1
40	Preparation of Iridium-SnO2/VGCF Electrocatalysts for Water Electrolysis. ECS Transactions, 2016, 75, 1129-1135.	0.5	1
41	Fuel Composition in Pressurized SOFCs. ECS Transactions, 2017, 78, 2497-2504.	0.5	1
42	Exchange Current Density of Solid Oxide Electrolysis Cell Electrodes. ECS Transactions, 2021, 103, 2007-2016.	0.5	1
43	Redox Durability of Ni-Co Alloy Cermet Anodes for SOFCs. ECS Transactions, 2021, 103, 1549-1556.	0.5	1
44	Finite Element Analysis of a Two-Dimensional Sandwich Model for Inspection of Fuel Cell Inside Characteristics(Thermal Engineering). 880-02 Nihon Kikai Gakkai Ronbunshū Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2009, 75, 1357-1362.	0.2	0
45	Numerical Analysis of a Three-Dimensional Sandwich Model for Investigating the Effect of Using the Pore Size Distribution. Journal of Computational Science and Technology, 2010, 4, 89-104.	0.4	Ο
46	Computational Study of Performance Drop Phenomena Based on Sulfur Adsorption and Desorption Model in Planar-Type SOFCs. ECS Transactions, 2013, 57, 2841-2848.	0.5	0
47	In-Plane Distribution of Carbon Deposition on SOFCs. ECS Transactions, 2013, 57, 1593-1598.	0.5	Ο
48	Visualization of SOFC Anode by Dual Imaging Method Using Infrared and Visible Light Cameras. ECS Transactions, 2015, 68, 1115-1120.	0.5	0
49	Effect of Exchange Current Density on Current Distribution at Planar-Type SOFC Anodes. ECS Transactions, 2017, 78, 1523-1531.	0.5	0
50	Effect of Carbon-Neutral Fuel Fed Solid Oxide Fuel Cell System on CO2Emission Reduction. ECS Transactions, 2017, 78, 2563-2568.	0.5	0
51	Alternative Ni-Alloy Cermet Anode Materials for SOFCs. ECS Transactions, 2019, 91, 1889-1896.	0.5	0
52	SOFC Anodes Impregnated with Noble Metal Catalyst Nanoparticles for High Fuel Utilization. ECS Transactions, 2019, 91, 1905-1913.	0.5	0
53	Numerical Study on Biogas Refining System Combined with Proton-Conducting Solid Oxide Electrolyzer. ECS Transactions, 2021, 103, 845-851.	0.5	0
54	J0802-1-2 Computational Analysis by Finite Element Method about a Water-Proton Transportation in Polymer Electrolyte Membrane. The Proceedings of the JSME Annual Meeting, 2010, 2010.7, 199-200.	0.0	0

#	Article	IF	CITATIONS
55	J0610205 CAE Analysis of Surface Structure Effect for Hydrocarbon Reforming on SOFC Anode. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0610205J0610205	0.0	0
56	Numerical analysis on multi-component flow in SOFC stack for highly efficient operation. The Proceedings of the Computational Mechanics Conference, 2014, 2014.27, 106-107.	0.0	0