

# Shunsuke Taniguchi

## List of Publications by Year in descending order

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33  
papers

843  
citations

706676

14  
h-index

536525

29  
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34  
all docs

34  
docs citations

34  
times ranked

834  
citing authors

#	ARTICLE	IF	CITATIONS
1	Proposal of ultra-high-efficiency zero-emission power generation systems. Journal of Power Sources, 2020, 448, 227459.	4.0	13
2	Suppression of Leakage Current in Proton-Conducting BaZr <sub>0.8</sub> Y <sub>0.2</sub> O <sub>3-δ</sub> Electrolyte by Forming Hole-Blocking Layer. Journal of the Electrochemical Society, 2020, 167, 084515.	1.3	16
3	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.	3.8	39
4	Improved Redox Cycling Durability in Alternative Ni Alloy-Based SOFC Anodes. Journal of the Electrochemical Society, 2020, 167, 124517.	1.3	5
5	Semiconductive $\text{Al}_2\text{O}_3/\text{Sr}_3\text{Al}_2\text{O}_6$ Oxide Layer Formed on Fe-Cr-Al Alloy. Journal of the Electrochemical Society, 2020, 167, 124505.	1.3	0
6	Redox stability of metal-supported fuel cells with nickel/gadolinium-doped ceria anode. Journal of Power Sources, 2019, 434, 226751.	4.0	21
7	Achievements of NEDO Durability Projects on SOFC Stacks in the Light of Physicochemical Mechanisms. Fuel Cells, 2019, 19, 311-339.	1.5	25
8	Modified Energy Efficiencies of Proton-Conducting SOFCs with Partial Conductions of Oxide Ions and Holes. Fuel Cells, 2019, 19, 503-511.	1.5	6
9	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.	3.8	19
10	SOFC anodes impregnated with noble metal catalyst nanoparticles for high fuel utilization. International Journal of Hydrogen Energy, 2019, 44, 8502-8518.	3.8	58
11	Durability of LSCF-Coated Fe-Cr-Al Alloy for SOFC Applications. Journal of the Electrochemical Society, 2018, 165, F181-F188.	1.3	2
12	In situ transmission electron microscopic observations of redox cycling of a Ni-ScSZ cermet fuel cell anode. Microscopy (Oxford, England), 2018, 67, 251-258.	0.7	11
13	Mechanism of SrZrO <sub>3</sub> Formation at GDC/YSZ Interface of SOFC Cathode. Journal of the Electrochemical Society, 2018, 165, F959-F965.	1.3	19
14	Ru-based SOFC anodes: Preparation, performance, and durability. International Journal of Hydrogen Energy, 2017, 42, 6950-6964.	3.8	10
15	Modification of Surface Oxide Layer of Fe-Cr-Al Alloy with Coating Materials for SOFC Applications. Fuel Cells, 2017, 17, 83-89.	1.5	5
16	Recent Achievements of NEDO Durability Project with an Emphasis on Correlation Between Cathode Overpotential and Ohmic Loss. Fuel Cells, 2017, 17, 473-497.	1.5	39
17	Physicochemical properties of Ba(Zr,Ce)O <sub>3-δ</sub> -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.	3.8	35
18	Alternative Ni-Impregnated Mixed Ionic-Electronic Conducting Anode for SOFC Operation at High Fuel Utilization. Journal of the Electrochemical Society, 2017, 164, F3055-F3063.	1.3	17

#	ARTICLE	IF	CITATIONS
19	New Applications of SOFC-MGT Hybrid Power Generation System for Low-Carbon Society. ECS Transactions, 2017, 78, 197-208.	0.3	5
20	Investigation of Fe-Cr-Al Alloy for Metal Supported SOFC. ECS Transactions, 2017, 78, 2069-2075.	0.3	4
21	TEM and ETEM Study on SrZrO <sub>3</sub> Formation at the LSCF/GDC/YSZ Interfaces. ECS Transactions, 2017, 78, 993-1001.	0.3	15
22	Alternative SOFC Anode Materials with Ion <sup>+</sup> and Electron <sup>+</sup> Conducting Backbones for Higher Fuel Utilization. ECS Transactions, 2017, 78, 1179-1187.	0.3	2
23	PM-13 In Situ TEM Study on Redox Cycling of Ni-ScSZ Anode in Solid Oxide Fuel Cells. Microscopy (Oxford, England), 2017, 66, i24-i24.	0.7	0
24	Physicochemical properties of proton-conductive Ba(Zr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.1</sub> Yb <sub>0.1</sub> )O <sub>3-<math>\delta</math></sub> solid electrolyte in terms of electrochemical performance of solid oxide fuel cells. International Journal of Hydrogen Energy, 2016, 41, 17539-17547.	3.8	30
25	Multi-Stage Stack Design for Highly Efficient SOFC System. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J2220403.	0.0	0
26	Microstructural Characterization of SrZrO <sub>3</sub> Formation and the Influence to SOFC Performance. ECS Transactions, 2015, 68, 2463-2470.	0.3	6
27	Effect of proton-conduction in electrolyte on electric efficiency of multi-stage solid oxide fuel cells. Scientific Reports, 2015, 5, 12640.	1.6	69
28	Decrease in electrical resistance of surface oxide of iron <sup>+</sup> chromium <sup>+</sup> aluminium alloy by La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> coating and heat treatment for the application of metal-supported solid oxide fuel cells. Journal of Power Sources, 2015, 297, 181-187.	4.0	4
29	A Parametric Study of SOFC Performances with Multi-Stage Electrochemical Oxidation for Enhancement of Electric Efficiency. ECS Transactions, 2015, 68, 1961-1968.	0.3	3
30	Oxidation-Induced Degradation of SOFC Ni Anodes at High Fuel Utilizations. ECS Transactions, 2015, 68, 1345-1352.	0.3	7
31	SOFC Durability against Standby and Shutdown Cycling. Journal of the Electrochemical Society, 2014, 161, F850-F860.	1.3	62
32	Sulfur Poisoning of SOFCs: Voltage Oscillation and Ni Oxidation. Journal of the Electrochemical Society, 2012, 159, F693-F701.	1.3	33
33	Degradation phenomena in the cathode of a solid oxide fuel cell with an alloy separator. Journal of Power Sources, 1995, 55, 73-79.	4.0	263