

Dong Young Jang

List of Publications by Year in descending order

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papers

777
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516215

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all docs

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26
times ranked

901
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstrating the potential of yttrium-doped barium zirconate electrolyte for high-performance fuel cells. <i>Nature Communications</i> , 2017, 8, 14553.	5.8	218
2	High-performance thin-film protonic ceramic fuel cells fabricated on anode supports with a non-proton-conducting ceramic matrix. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6395-6403.	5.2	52
3	Nanoporous silver cathodes surface-treated by atomic layer deposition of Y:ZrO ₂ for high-performance low-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015, 295, 175-181.	4.0	48
4	Surface Tuning of Solid Oxide Fuel Cell Cathode by Atomic Layer Deposition. <i>Advanced Energy Materials</i> , 2018, 8, 1802506.	10.2	48
5	High-Performance Protonic Ceramic Fuel Cells with Thin-Film Yttrium-Doped Barium Cerate/Zirconate Electrolytes on Compositionally Gradient Anodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9097-9103.	4.0	43
6	High performance low-temperature solid oxide fuel cells with atomic layer deposited-yttria stabilized zirconia embedded thin film electrolyte. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7401-7408.	5.2	38
7	Atomic layer deposition of ruthenium surface-coating on porous platinum catalysts for high-performance direct ethanol solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015, 291, 239-245.	4.0	36
8	Low-temperature performance of yttria-stabilized zirconia prepared by atomic layer deposition. <i>Journal of Power Sources</i> , 2015, 274, 611-618.	4.0	35
9	Micro ceramic fuel cells with multilayered yttrium-doped barium cerate and zirconate thin film electrolytes. <i>Journal of Power Sources</i> , 2014, 248, 1163-1169.	4.0	33
10	High-Performance Silver Cathode Surface Treated with Scandia-Stabilized Zirconia Nanoparticles for Intermediate Temperature Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601956.	10.2	32
11	Performance Degradation of Lanthanum Strontium Cobaltite after Surface Modification. <i>Journal of the Electrochemical Society</i> , 2015, 162, F622-F626.	1.3	27
12	Fabrication of Lanthanum Strontium Cobalt Ferrite/Gadolinium-Doped Ceria Composite Cathodes Using a Low-Price Inkjet Printer. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39347-39356.	4.0	25
13	Evaluation of porous platinum, nickel, and lanthanum strontium cobaltite as electrode materials for low-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17828-17835.	3.8	23
14	Nano-granulization of gadolinia-doped ceria electrolyte surface by aerosol-assisted chemical vapor deposition for low-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2016, 301, 72-77.	4.0	21
15	Influence of background oxygen pressure on film properties of pulsed laser deposited Y:BaZrO ₃ . <i>Thin Solid Films</i> , 2014, 552, 24-31.	0.8	20
16	High Performance Anode-Supported Solid Oxide Fuel Cells with Thin Film Yttria-Stabilized Zirconia Membrane Prepared by Aerosol-Assisted Chemical Vapor Deposition. <i>Journal of the Electrochemical Society</i> , 2017, 164, F484-F490.	1.3	19
17	Ionic properties of ultrathin yttria-stabilized zirconia thin films fabricated by atomic layer deposition with water, oxygen, and ozone. <i>Thin Solid Films</i> , 2015, 589, 441-445.	0.8	14
18	La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} cathode surface-treated with La ₂ NiO ₄ by aerosol-assisted chemical vapor deposition for high performance solid oxide fuel cells. <i>Ceramics International</i> , 2019, 45, 12366-12371.	2.3	10

#	ARTICLE	IF	CITATIONS
19	Nanoporous silver cathode surface-treated by aerosol-assisted chemical vapor deposition of gadolinia-doped ceria for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2018, 402, 246-251.	4.0	9
20	Design and fabrication of a scanning electron microscope using a finite element analysis for electron optical system. Journal of Mechanical Science and Technology, 2008, 22, 1734-1746.	0.7	8
21	Compositional optimization of gadolinia-doped ceria treatment for enhanced oxygen reduction kinetics in low-temperature solid oxide fuel cells. Thin Solid Films, 2017, 624, 95-100.	0.8	6
22	Fabrication of ion conductive tin oxide-phosphate amorphous thin films by atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	0.9	4
23	On the reduced electrical conductivity of radio-frequency sputtered doped ceria thin film by elevating the substrate temperature. Current Applied Physics, 2016, 16, 324-328.	1.1	4
24	Fabrication of NiO-Y:BaZrO ₃ Composite Anode for Thin Film-Protonic Ceramic Fuel Cells using Tape-Casting. Journal of the Korean Ceramic Society, 2015, 52, 320-324.	1.1	4
25	Design and fabrication of a scanning electron microscope (SEM) with an electrostatic column for process embedment. Journal of the Korean Physical Society, 2013, 63, 1287-1290.	0.3	0
26	Direct Measurement of Ion Diffusivity in Oxide Thin Film by Using Isotope Tracers and Secondary Ion Mass Spectrometry. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 405-410.	2.7	0