Jung Sik Kim

List of Publications by Year
in descending order

37 papers	1,263 citations	361413 20 h-index	361022 35 g-index
40 all docs	40 docs citations	40 times ranked	717 citing authors

#	Article	IF	Citations
1	Tuning La₂O₃ to high ionic conductivity by Ni-doping. Chemical Communications, 2022, 58, 4360-4363.	4.1	15
2	Surfaceâ€Engineered Homostructure for Enhancing Proton Transport. Small Methods, 2022, 6, e2100901.	8.6	26
3	Design principle and assessing the correlations in Sb-doped Ba0.5Sr0.5FeO3â€“Î´ perovskite oxide for enhanced oxygen reduction catalytic performance. Journal of Catalysis, 2021, 395, 168-177.	6.2	44
4	Junction and energy band on novel semiconductor-based fuel cells. IScience, 2021, 24, 102191.	4.1	45
5	Performance analysis of LiAl0.5Co0.5O2 nanosheets for intermediate-temperature fuel cells. International Journal of Hydrogen Energy, 2021, 46, 26478-26488.	7.1	12
6	Semiconductor Electrochemistry for Clean Energy Conversion and Storage. Electrochemical Energy Reviews, 2021, 4, 757-792.	25.5	77
7	In-situ temperature monitoring directly from cathode surface of an operating solid oxide fuel cell. Applied Energy, 2020, 280, 116013.	10.1	10
8	Development of a Novel Multi-Channel Thermocouple Array Sensor for In-Situ Monitoring of Ice Accretion. Sensors, 2020, 20, 2165.	3.8	3
9	Semiconductor TiO₂ thin film as an electrolyte for fuel cells. Journal of Materials Chemistry A, 2019, 7, 16728-16734.	10.3	80
10	Proton Shuttles in CeO₂/CeO_{2âˆ’Î´} Coreâ€“Shell Structure. ACS Energy Letters, 2019, 4, 2601-2607.	17.4	160
11	Ionic Conducting Properties and Fuel Cell Performance Developed by Band Structures. Journal of Physical Chemistry C, 2019, 123, 8569-8577.	3.1	26
12	Promising electrochemical study of titanate based anodes in direct carbon fuel cell using walnut and almond shells biochar fuel. Journal of Power Sources, 2019, 434, 126679.	7.8	27
13	Parameters and their impacts on the temperature distribution and thermal gradient of solid oxide fuel cell. Applied Energy, 2019, 241, 164-173.	10.1	31
14	Spring Based Connection of External Wires to a Thin Film Temperature Sensor Integrated Inside a Solid Oxide Fuel Cell. Scientific Reports, 2019, 9, 2161.	3.3	13
15	Perovskite SrFe 1-x Ti x O 3-Î´ (xâ€¯<â€¯= 0.1) cathode for low temperature solid oxide fuel cell. Ceramics International, 2018, 44, 10266-10272.	4.8	41
16	Singleâ€step fabrication of an anode supported planar singleâ€chamber solid oxide fuel cell. International Journal of Applied Ceramic Technology, 2018, 15, 1375-1387.	2.1	10
17	In-situ monitoring of temperature distribution in operating solid oxide fuel cell cathode using proprietary sensory techniques versus commercial thermocouples. Applied Energy, 2018, 230, 551-562.	10.1	26
18	Advanced Fuel Cell Based on Perovskite Laâ€“SrTiO₃ Semiconductor as the Electrolyte with Superoxide-Ion Conduction. ACS Applied Materials & Interfaces, 2018, 10, 33179-33186.	8.0	103

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19	Study on Zinc Oxide-Based Electrolytes in Low-Temperature Solid Oxide Fuel Cells. Materials, 2018, 11, 40.	2.9	69
20	Fabrication and evaluation of a novel wavy Single Chamber Solid Oxide Fuel Cell via in-situ monitoring of curvature evolution. Applied Energy, 2017, 195, 1038-1046.	10.1	6
21	Charge separation and transport in La 0.6 Sr 0.4 Co 0.2 Fe 0.8 O 3-Î´ and ion-doping ceria heterostructure material for new generation fuel cell. Nano Energy, 2017, 37, 195-202.	16.0	115
22	Semiconductor-ionic Membrane of LaSrCoFe-oxide-doped Ceria Solid Oxide Fuel Cells. Electrochimica Acta, 2017, 248, 496-504.	5.2	74
23	Standardized Procedures Important for Improving Single-Component Ceramic Fuel Cell Technology. ACS Energy Letters, 2017, 2, 2752-2755.	17.4	30
24	Progress in Electrolyte-Free Fuel Cells. Frontiers in Energy Research, 2016, 4, .	2.3	17
25	Performance and Durability of Thin Film Thermocouple Array on a Porous Electrode. Sensors, 2016, 16, 1329.	3.8	17
26	Fabrication of Threeâ€Dimensional Wavy Singleâ€Chamber Solid Oxide Fuel Cell by In Situ Observation of Curvature Evolution. Journal of the American Ceramic Society, 2016, 99, 1174-1183.	3.8	3
27	Cell integrated multi-junction thermocouple array for solid oxide fuel cell temperature sensing: N+1 architecture. Journal of Power Sources, 2016, 315, 70-78.	7.8	21
28	Cell integrated thin-film multi-junction thermocouple array for in-situ temperature monitoring of solid oxide fuel cells. , 2015, , .		3
29	Constrained sintering of 8 mol% Y2O3 stabilised zirconia films. Journal of the European Ceramic Society, 2012, 32, 4121-4128.	5.7	18
30	Stress Induced by Constrained Sintering of 3YSZ Films Measured by Substrate Creep. Journal of the American Ceramic Society, 2011, 94, 717-724.	3.8	24
31	Constrained sintering kinetics of 3YSZ films. Journal of the European Ceramic Society, 2011, 31, 2231-2239.	5.7	33
32	Fabrication of Three-Dimensional Magnetic Microcomponents. Springer Proceedings in Physics, 2010, , 131-139.	0.2	0
33	Constrained Sintering Stress -Review. Springer Proceedings in Physics, 2010, , 163-173.	0.2	1
34	Constrained Sintering of Zirconia Films. ECS Transactions, 2009, 25, 1531-1540.	0.5	1
35	Netâ€Shape Alumina Microcomponents by Conversion of Al Powder. Advanced Engineering Materials, 2009, 11, 106-110.	3.5	5
36	Pressure Free Fabrication of 3D Microcomponents Using Al Powder. Advanced Engineering Materials, 2006, 8, 38-41.	3.5	13

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37	A net shape process for metallic microcomponent fabrication using Al and Cu micro/nano powders. Journal of Micromechanics and Microengineering, 2006, 16, 48-52.	2.6	19