

Yun Chen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Electrocatalytic surface nanoionics with strained interfaced and colossal conductivity for enhancing durability and performance of solid oxide fuel cell. <i>Journal of Power Sources</i> , 2022, 517, 230715.	7.8	1
2	Space charge layer evolution at yttria-stabilized zirconia grain boundaries upon operation of solid oxide fuel cells. <i>Acta Materialia</i> , 2022, 237, 118179.	7.9	4
3	Electrical conductivity increase by order of magnitude through controlling sintering to tune hierarchical structure of oxide ceramics. <i>Journal of Solid State Chemistry</i> , 2021, 294, 121831.	2.9	4
4	Thermoelectric Oxide Ceramics Outperforming Single Crystals Enabled by Dopant Segregations. <i>Chemistry of Materials</i> , 2020, 32, 9730-9739.	6.7	18
5	Difference between transition metal cation substitution and Nonstoichiometric addition on nanostructure and thermoelectric performance of complex oxide ceramics. <i>Journal of Solid State Chemistry</i> , 2019, 277, 427-433.	2.9	4
6	Interface and grain boundary degradation in LSM-YSZ composite Solid Oxide Fuel Cell cathodes operated in humidified air. <i>Journal of Power Sources</i> , 2019, 438, 227043.	7.8	17
7	Conformal Electrocatalytic Surface Nanoionics for Accelerating High-Temperature Electrochemical Reactions in Solid Oxide Fuel Cells. <i>Nano Letters</i> , 2019, 19, 8767-8773.	9.1	14
8	Synergetic Interaction of Additive Dual Nanocatalysts to Accelerate Oxygen Reduction Reaction in Fuel Cell Cathodes. <i>ACS Catalysis</i> , 2019, 9, 6664-6671.	11.2	16
9	Improving the thermoelectric performance and thermal stability of $\text{Ca}_3\text{Co}_4\text{O}_9$ ceramics by sintering in oxygen atmosphere. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 85, 712-722.	2.4	6
10	Grain Boundary Phase Segregation for Dramatic Improvement of the Thermoelectric Performance of Oxide Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39018-39024.	8.0	23
11	Competing dopants grain boundary segregation and resultant seebeck coefficient and power factor enhancement of thermoelectric calcium cobaltite ceramics. <i>Ceramics International</i> , 2017, 43, 11523-11528.	4.8	18
12	Long Term Performance Stability Tests of Ba-Fe-O Infiltrated LSM/YSZ Solid Oxide Fuel Cells under High Steam and High Current. <i>ECS Transactions</i> , 2017, 78, 1003-1010.	0.5	5
13	Nanoionics and Nanocatalysts: Conformal Mesoporous Surface Scaffold for Cathode of Solid Oxide Fuel Cells. <i>Scientific Reports</i> , 2016, 6, 32997.	3.3	17
14	Grain boundary segregation and thermoelectric performance enhancement of bismuth doped calcium cobaltite. <i>Journal of the European Ceramic Society</i> , 2016, 36, 601-607.	5.7	41
15	Phase evolution and thermoelectric performance of calcium cobaltite upon high temperature aging. <i>Ceramics International</i> , 2015, 41, 11069-11074.	4.8	11
16	Thermoelectric Performance Enhancement of Calcium Cobaltite through Barium Grain Boundary Segregation. <i>Inorganic Chemistry</i> , 2015, 54, 9027-9032.	4.0	31
17	Electrochemically influenced cation inter-diffusion and Co_3O_4 formation on $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_3$ infiltrated into SOFC cathodes. <i>Solid State Ionics</i> , 2015, 278, 91-97.	2.7	10
18	Microstructure degradation of YSZ in Ni/YSZ anodes of SOFC operated in phosphine-containing fuels. <i>Solid State Ionics</i> , 2013, 234, 25-32.	2.7	15

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19	Effect of precursor calcination temperature on the microstructure and thermoelectric properties of $\text{Ca}_3\text{Co}_4\text{O}_9$ ceramics. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 64, 627-636.	2.4	27
20	Crystal defects of yttria stabilized zirconia in Solid Oxide Fuel Cells and their evolution upon cell operation. <i>Solid State Ionics</i> , 2012, 206, 104-111.	2.7	18
21	Microstructural and chemical evolution near anode triple phase boundary in Ni/YSZ solid oxide fuel cells. <i>Solid State Ionics</i> , 2011, 204-205, 87-90.	2.7	21