Yun Chen

List of Publications by Year
in descending order

21 papers	321 citations	687363 13 h-index	839539 18 g-index
21 all docs	21 docs citations	21 times ranked	473 citing authors

#	Article	IF	Citations
1	Grain boundary segregation and thermoelectric performance enhancement of bismuth doped calcium cobaltite. Journal of the European Ceramic Society, 2016, 36, 601-607.	5.7	41
2	Thermoelectric Performance Enhancement of Calcium Cobaltite through Barium Grain Boundary Segregation. Inorganic Chemistry, 2015, 54, 9027-9032.	4.0	31
3	Effect of precursor calcination temperature on the microstructure and thermoelectric properties of Ca3Co4O9 ceramics. Journal of Sol-Gel Science and Technology, 2012, 64, 627-636.	2.4	27
4	Grain Boundary Phase Segregation for Dramatic Improvement of the Thermoelectric Performance of Oxide Ceramics. ACS Applied Materials & Interfaces, 2018, 10, 39018-39024.	8.0	23
5	Microstructural and chemical evolution near anode triple phase boundary in Ni/YSZ solid oxide fuel cells. Solid State Ionics, 2011, 204-205, 87-90.	2.7	21
6	Crystal defects of yttria stabilized zirconia in Solid Oxide Fuel Cells and their evolution upon cell operation. Solid State Ionics, 2012, 206, 104-111.	2.7	18
7	Competing dopants grain boundary segregation and resultant seebeck coefficient and power factor enhancement of thermoelectric calcium cobaltite ceramics. Ceramics International, 2017, 43, 11523-11528.	4.8	18
8	Thermoelectric Oxide Ceramics Outperforming Single Crystals Enabled by Dopant Segregations. Chemistry of Materials, 2020, 32, 9730-9739.	6.7	18
9	Nanoionics and Nanocatalysts: Conformal Mesoporous Surface Scaffold for Cathode of Solid Oxide Fuel Cells. Scientific Reports, 2016, 6, 32997.	3.3	17
10	Interface and grain boundary degradation in LSM-YSZ composite Solid Oxide Fuel Cell cathodes operated in humidified air. Journal of Power Sources, 2019, 438, 227043.	7.8	17
11	Synergetic Interaction of Additive Dual Nanocatalysts to Accelerate Oxygen Reduction Reaction in Fuel Cell Cathodes. ACS Catalysis, 2019, 9, 6664-6671.	11.2	16
12	Microstructure degradation of YSZ in Ni/YSZ anodes of SOFC operated in phosphine-containing fuels. Solid State Ionics, 2013, 234, 25-32.	2.7	15
13	Conformal Electrocatalytic Surface Nanoionics for Accelerating High-Temperature Electrochemical Reactions in Solid Oxide Fuel Cells. Nano Letters, 2019, 19, 8767-8773.	9.1	14
14	Phase evolution and thermoelectric performance of calcium cobaltite upon high temperature aging. Ceramics International, 2015, 41, 11069-11074.	4.8	11
15	Electrochemically influenced cation inter-diffusion and Co3O4 formation on La0.6Sr0.4CoO3 infiltrated into SOFC cathodes. Solid State Ionics, 2015, 278, 91-97.	2.7	10
16	Improving the thermoelectric performance and thermal stability of Ca3Co4O9â€‰+â€‰Î´ ceramics by sintering in oxygen atmosphere. Journal of Sol-Gel Science and Technology, 2018, 85, 712-722.	2.4	6
17	Long Term Performance Stability Tests of Ba-Fe-O Infiltrated LSM/YSZ Solid Oxide Fuel Cells under High Steam and High Current. ECS Transactions, 2017, 78, 1003-1010.	0.5	5
18	Difference between transition metal cation substitution and Nonstoichiometric addition on nanostructure and thermoelectric performance of complex oxide ceramics. Journal of Solid State Chemistry, 2019, 277, 427-433.	2.9	4

#	Article	IF	Citations
19	Electrical conductivity increase by order of magnitude through controlling sintering to tune hierarchical structure of oxide ceramics. Journal of Solid State Chemistry, 2021, 294, 121831.	2.9	4
20	Space charge layer evolution at yttria-stabilized zirconia grain boundaries upon operation of solid oxide fuel cells. Acta Materialia, 2022, 237, 118179.	7.9	4
21	Electrocatalytic surface nanoionics with strained interfaced and colossal conductivity for enhancing durability and performance of solid oxide fuel cell. Journal of Power Sources, 2022, 517, 230715.	7.8	1