

Alireza Babaei

List of Publications by Year in descending order

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all docs

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#	ARTICLE	IF	CITATIONS
1	Magnetic and photocatalytic properties of CoFe ₂ O ₄ /Ni nanocomposites. Journal of Electroceramics, 2022, 48, 51-66.	2.0	2
2	Development of an SFMM/CGO composite electrode with stable electrochemical performance at different oxygen partial pressures. International Journal of Hydrogen Energy, 2022, 47, 7915-7931.	7.1	5
3	Lovastatin production by <i>Aspergillus terreus</i> in membrane gradostat bioreactor with two-stage feeding strategy. Preparative Biochemistry and Biotechnology, 2022, , 1-8.	1.9	1
4	Processing ultrafine grained non-circular cross-section profiles via severe plastic deformation. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 572-580.	1.1	2
5	LaFe _{0.6} Co _{0.4} O ₃ promoted LSCM/YSZ anode for direct utilization of methanol in solid oxide fuel cells. Ionics, 2020, 26, 1011-1018.	2.4	7
6	Fatigue life evaluation of an ultrafine-grained pure aluminum. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 90-104.	1.1	0
7	Electrochemical performance of La _{0.8} Sr _{0.2} MnO ₃ oxygen electrode promoted by Ruddlesden-Popper structured La ₂ NiO ₄ . Journal of the American Ceramic Society, 2020, 103, 1332-1342.	3.8	8
8	Characterization of LaFe _{0.6} Co _{0.4} O ₃ washcoat layer on a monolithic substrate. Journal of the Australian Ceramic Society, 2020, 56, 149-155.	1.9	0
9	Fabrication of porous titania sheet via tape casting: Microstructure and water permeability study. Ceramics International, 2020, 46, 8689-8694.	4.8	2
10	Low-temperature preparation and investigation of electrochemical properties of SFM/CGO composite electrode. Solid State Ionics, 2020, 356, 115435.	2.7	7
11	Electrochemical characterization of La ₂ NiO ₄ -infiltrated La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} by analysis of distribution of relaxation times. Electrochimica Acta, 2020, 353, 136520.	5.2	22
12	Low temperature synthesis of nanostructured LiFePO ₄ /C cathode material for lithium ion batteries. Materials Research Bulletin, 2020, 125, 110807.	5.2	13
13	Low-temperature synthesis of Sr ₂ FeMoO ₆ double perovskite; structure, morphology, and magnetic properties. Ceramics International, 2020, 46, 16867-16878.	4.8	15
14	CoFe ₂ O ₄ /Fe magnetic nanocomposite: Exchange coupling behavior and microwave absorbing property. Ceramics International, 2020, 46, 17903-17916.	4.8	42
15	Temperature dependency of activity of nano-catalysts on La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} cathode of solid oxide fuel cells. Journal of Applied Electrochemistry, 2019, 49, 1113-1122.	2.9	15
16	Control of structural and magnetic characteristics of cobalt ferrite by post-calcination mechanical milling. Journal of Physics and Chemistry of Solids, 2019, 134, 286-294.	4.0	45
17	Developing a Coupled Statistical and Monte Carlo Approach for Geometric Modeling and Optimizing of Infiltrated Solid Oxide Fuel Cell Electrode. Fuel Cells, 2019, 19, 112-124.	2.4	1
18	Co-electrolysis of CO ₂ and H ₂ O on LaFe _{0.6} Co _{0.4} O ₃ promoted La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O ₃ /YSZ electrode in solid oxide electrolysis cell. Electrochimica Acta, 2019, 299, 132-142.	5.2	13

#	ARTICLE	IF	CITATIONS
19	An investigation on the effect of deposition parameters on nanostructured electrode of lithium ion batteries and their performance. AIP Conference Proceedings, 2018, , .	0.4	1
20	Enhanced performance of La _{0.8} Sr _{0.2} MnO ₃ cathode for solid oxide fuel cells by co-infiltration of metal and ceramic precursors. Journal of Alloys and Compounds, 2018, 737, 433-441.	5.5	24
21	Electrochemical performance and stability of LNC-infiltrated (La, Sr)MnO ₃ oxygen electrode. AIP Conference Proceedings, 2018, , .	0.4	0
22	Characterization of B site codoped LaFeO ₃ nanoparticles prepared via co-precipitation route. Rare Metals, 2018, 37, 181-190.	7.1	22
23	Nano-structured Pd doped LaFe(Co)O ₃ perovskite; synthesis, characterization and catalytic behavior. Materials Chemistry and Physics, 2018, 205, 228-239.	4.0	11
24	Reversible operation of La _{0.8} Sr _{0.2} MnO ₃ oxygen electrode infiltrated with Ruddlesden-Popper and perovskite lanthanum nickel cobaltite. International Journal of Hydrogen Energy, 2018, 43, 23091-23100.	7.1	15
25	Performance Improvement of an Inhomogeneous Cathode by Infiltration. Fuel Cells, 2017, 17, 108-114.	2.4	12
26	Geometric Modeling of Infiltrated Solid Oxide Fuel Cell Electrodes with Directional Backbones. Fuel Cells, 2017, 17, 67-74.	2.4	2
27	Investigation of the geometric property hull for infiltrated solid oxide fuel cell electrodes. International Journal of Energy Research, 2017, 41, 2318-2331.	4.5	8
28	Nanostructured MnCo ₂ O ₄ synthesized via co-precipitation method for SOFC interconnect application. International Journal of Hydrogen Energy, 2016, 41, 20640-20649.	7.1	24
29	Effect of air addition to methane on performance stability and coking over NiO-YSZ anodes of SOFC. Applied Energy, 2016, 177, 179-186.	10.1	44
30	Geometric Modeling of Infiltrated Solid Oxide Fuel Cell Electrodes for Performance Optimization. , 2015, 11, 428-433.		5
31	Analysis of Deformation Behavior in Backward- Radial- Forward Extrusion Process. Transactions of the Indian Institute of Metals, 2015, 68, 191-199.	1.5	5
32	Tube cyclic expansion-extrusion (TCEE) as a novel severe plastic deformation method for cylindrical tubes. Journal of Materials Science, 2014, 49, 3158-3165.	3.7	31
33	Effect of Operational Condition on Performance and Durability of Solid Oxide Fuel Cell Fueled by Natural Gas. ECS Transactions, 2013, 57, 2939-2946.	0.5	2
34	Performance and carbon deposition over Pd nanoparticle catalyst promoted Ni/GDC anode of SOFCs in methane, methanol and ethanol fuels. International Journal of Hydrogen Energy, 2012, 37, 15301-15310.	7.1	29
35	Parallel tubular channel angular pressing (PTCAP) as a new severe plastic deformation method for cylindrical tubes. Materials Letters, 2012, 77, 82-85.	2.6	107
36	Performance and stability of La _{0.8} Sr _{0.2} MnO ₃ cathode promoted with palladium based catalysts in solid oxide fuel cells. Journal of Alloys and Compounds, 2011, 509, 4781-4787.	5.5	28

#	ARTICLE	IF	CITATIONS
37	Co ₂ MnO ₄ spinel-palladium co-infiltrated La _{0.7} Ca _{0.3} Cr _{0.5} Mn _{0.5} O ₃ cathodes for intermediate temperature solid oxide fuel cells. Journal of Alloys and Compounds, 2011, 509, 9708-9717.	5.5	9
38	Pd-promoted (La,Ca)(Cr,Mn)O ₃ /GDC anode for hydrogen and methane oxidation reactions of solid oxide fuel cells. Solid State Ionics, 2010, 181, 1221-1228.	2.7	42
39	Analysis of fuel oxidation reaction steps in Ni/GDC anode electrode of solid oxide fuel cells by using palladium nanoparticles. , 2010, , .		3
40	Electrocatalytic Promotion of Palladium Nanoparticles on Hydrogen Oxidation on Ni/GDC Anodes of SOFCs via Spillover. Journal of the Electrochemical Society, 2009, 156, B1022.	2.9	73
41	Modeling of Nanostructured Palladium Anode in Solid Oxide Fuel Cells. Advanced Materials Research, 0, 829, 195-198.	0.3	1