Alejandra Montenegro-Hernandez

List of Publications by Year
in descending order

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22	480	840776 11	794594 19
papers	citations	h-index	g-index

22	22	22	508
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal stability of Ln2NiO4+Î´ (Ln: La, Pr, Nd) and their chemical compatibility with YSZ and CGO solid electrolytes. International Journal of Hydrogen Energy, 2011, 36, 15704-15714.	7.1	135
2	La2NiO4+Î´ as cathode for SOFC: Reactivity study with YSZ and CGO electrolytes. International Journal of Hydrogen Energy, 2010, 35, 6031-6036.	7.1	88
3	Reactivity at the Ln2NiO4+/electrolyte interface (LnÂ=ÂLa, Nd) studied by Electrochemical Impedance Spectroscopy and Transmission Electron Microscopy. Journal of Power Sources, 2014, 265, 6-13.	7.8	33
4	Determination of Electrode Oxygen Transport Kinetics Using Electrochemical Impedance Spectroscopy Combined with Three-Dimensional Microstructure Measurement: Application to Nd₂NiO_{4+Î´}. Journal of the Electrochemical Society, 2014, 161, F1366-F1374.	2.9	31
5	A bottom-up building process of nanostructured La0.75Sr0.25Cr0.5Mn0.5O3â^'Î´ electrodes for symmetrical-solid oxide fuel cell: Synthesis, characterization and electrocatalytic testing. Journal of Power Sources, 2014, 245, 377-388.	7.8	28
6	La/Ba-based cobaltites as IT-SOFC cathodes: a discussion about the effect of crystal structure and microstructure on the O 2 -reduction reaction. Electrochimica Acta, 2016, 215, 637-646.	5.2	27
7	Microstructure and reactivity effects on the performance of Nd2NiO4+Î´ oxygen electrode on Ce0.9Gd0.1O1.95 electrolyte. International Journal of Hydrogen Energy, 2012, 37, 18290-18301.	7.1	25
8	SnO2â€“Bi2O3 and SnO2â€“Sb2O3 gas sensors obtained by soft chemical method. Journal of the European Ceramic Society, 2007, 27, 4143-4146.	5.7	21
9	High-Pressure Performance of Mixed-Conducting Oxygen Electrodes: Effect of Interstitial versus Vacancy Conductivity. Journal of the Electrochemical Society, 2016, 163, F1433-F1439.	2.9	20
10	The oxygen reduction reaction in solid oxide fuel cells: from kinetic parameters measurements to electrode design. JPhys Energy, 2020, 2, 042004.	5.3	18
11	Pure and Zr-doped YMnO_{3+Î´}as a YSZ-compatible SOFC cathode: a combined computational and experimental approach. Journal of Materials Chemistry A, 2019, 7, 18589-18602.	10.3	17
12	High temperature orthorhombic/tetragonal transition and oxygen content of Pr2-xNdxNiO4+Î´ (x= 0,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.9	10
13	Effects of neodymium doping on oxygen reduction activity in Pr2â^'xNdxNiO4+Î´ cathodes. Solid State Ionics, 2020, 347, 115093.	2.7	7
14	Study of La_{0.6}Sr_{0.4}Co_{1-x}Fe_xO_{3-Î´} (x = 0.2) Tj ETQq0 0 0 rgBT /Overloc of the Electrochemical Society, 2019, 166, F1301-F1307.	2.9	6
15	Structural properties and electrical conductivity of perovskite-type oxides in SOFCs. Journal of Physics: Conference Series, 2019, 1219, 012001.	0.4	4
16	Study of the oxygen reduction reaction on pure and Zr-doped YMnO3+Î´ SOFC electrode. Electrochimica Acta, 2021, 365, 137332.	5.2	4
17	Study of the Rate Limiting Steps and Degradation of a GDC Impregnated La0.6Sr0.4Co0.8Fe0.2O3-Î´Cathode. ECS Transactions, 2017, 78, 795-805.	0.5	2
18	Review on Ceramic Interphases by Transmission and Scanning Electron Microscopy. Praktische Metallographie/Practical Metallography, 2014, 51, 675-688.	0.3	2

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19	Oxygen Diffusion and Surface Exchange Coefficients of Porous La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3â˜Î´} Decorated with Co₃O₄ Nanoparticles. Journal of the Electrochemical Society, 2022, 169, 034514.	2.9	2
20	Validation of Nd2NiO4+ Î´ As Oxygen Electrode Material for Intermediate Temperature Solid Oxide Cells With Lsgm Electrolyte. ECS Meeting Abstracts, 2013, , .	0.0	0
21	Study of the Rate Limiting Steps and Degradation of a GDC Impregnated La0.6Sr0.4Co0.8Fe0.2O3-Î´ Cathode. ECS Meeting Abstracts, 2017, , .	0.0	0
22	Study of the Electrochemical Mechanisms That Control the Electrode Reaction and Degradation of La0.6Sr0.4Co0.8Fe0.2O3-Î´ cathodes Impregnated with Oxide Nanoparticles. ECS Meeting Abstracts, 2018, , .	0.0	0