Jose M Porras-Vazquez

List of Publications by Year
in descending order

62	1,530	304743	345221
papers	citations	22 h-index	36 g-index

63	63	63	1318
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient symmetrical electrodes based on LaCrO3 via microstructural engineering. Journal of the European Ceramic Society, 2022, 42, 181-192.	5.7	10
2	A review on recent advances and trends in symmetrical electrodes for solid oxide cells. Journal of Power Sources, 2022, 520, 230852.	7.8	58
3	LaCrO₃â€“CeO₂-Based Nanocomposite Electrodes for Efficient Symmetrical Solid Oxide Fuel Cells. ACS Applied Energy Materials, 2022, 5, 4536-4546.	5.1	7
4	Modification of the Microstructure and Transport Properties of La2CuO4âˆ'Î´ Electrodes via Halogenation Routes. Processes, 2022, 10, 1206.	2.8	4
5	Pectin-cellulose nanocrystal biocomposites: Tuning of physical properties and biodegradability. International Journal of Biological Macromolecules, 2021, 180, 709-717.	7.5	20
6	Perspectives on Cathodes for Protonic Ceramic Fuel Cells. Applied Sciences (Switzerland), 2021, 11, 5363.	2.5	51
7	Tunable Electrode Architectures for La0.8Sr0.2Fe1-XTixO3-Î´ Based Symmetrical Solid Oxide Fuel Cells. ECS Transactions, 2021, 103, 1601-1606.	0.5	0
8	Synthesis of catalysts by pyrolysis of Cu-chitosan complexes and their evaluation in the hydrogenation of furfural to value-added products. Molecular Catalysis, 2021, 512, 111774.	2.0	4
9	Recent progress in nanostructured electrodes for solid oxide fuel cells deposited by spray pyrolysis. Journal of Power Sources, 2021, 507, 230277.	7.8	37
10	Doping effects on the structure and electrical properties of La2Ce2O7 proton conductors. Journal of Alloys and Compounds, 2020, 816, 152600.	5.5	19
11	Synergic Effect of Metal and Fluorine Doping on the Structural and Electrical Properties of La_{5.4}MoO_{11.1}-Based Materials. Inorganic Chemistry, 2020, 59, 1444-1452.	4.0	7
12	Unravelling Crystal Superstructures and Transformations in the La6â€“xMoO12âˆ'Î´ (0.6 â‰¤ x â‰¤ 3.0) Series: A System with Tailored Ionic/Electronic Conductivity. Chemistry of Materials, 2020, 32, 7052-7062.	6.7	7
13	Influence of Bi1.5Y0.5O3 Active Layer on the Performance of Nanostructured La0.8Sr0.2MnO3 Cathode. Applied Nano, 2020, 1, 14-24.	2.0	7
14	Investigation of PO43âˆ' oxyanion-doping on the properties of CaFe0.4Ti0.6O3âˆ'Î´ for potential application as symmetrical electrodes for SOFCs. Journal of Alloys and Compounds, 2020, 835, 155437.	5.5	9
15	Nanostructured BaCo0.4Fe0.4Zr0.1Y0.1O3-Î´ Cathodes with Different Microstructural Architectures. Nanomaterials, 2020, 10, 1055.	4.1	10
16	Highly oriented and fully dense CGO films prepared by spray-pyrolysis and different precursor salts. Journal of the European Ceramic Society, 2020, 40, 3080-3088.	5.7	12
17	Relationship between the Structure and Transport Properties in the Ce_{1â€“x}La_xO_{2â€“x/2} System. Inorganic Chemistry, 2019, 58, 9368-9377.	4.0	17
18	A novel multilaminated composite cathode for solid oxide fuel cells. Ceramics International, 2019, 45, 18124-18127.	4.8	8

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19	Stability and electrochemical performance of nanostructured La2CuO4+Î´ cathodes. Journal of Alloys and Compounds, 2019, 788, 565-572.	5.5	15
20	Highly efficient La0.8Sr0.2MnO3-Î´ - Ce0.9Gd0.1O1.95 nanocomposite cathodes for solid oxide fuel cells. Ceramics International, 2018, 44, 4961-4966.	4.8	20
21	Effect of Zn addition on the structure and electrochemical properties of co-doped BaCe0.6Zr0.2Ln0.2O3-Î´ (Ln=Y, Gd, Yb) proton conductors. Ceramics International, 2018, 44, 14113-14121.	4.8	14
22	Durability and performance of CGO barriers and LSCF cathode deposited by spray-pyrolysis. Journal of the European Ceramic Society, 2018, 38, 3518-3526.	5.7	24
23	LSCF-CGO nanocomposite cathodes deposited in a single step by spray-pyrolysis. Journal of the European Ceramic Society, 2018, 38, 1647-1653.	5.7	18
24	Metal-Doping of La_{5.4}MoO_{11.1} Proton Conductors: Impact on the Structure and Electrical Properties. Inorganic Chemistry, 2018, 57, 12811-12819.	4.0	10
25	Stability and performance of La0.6Sr0.4Co0.2Fe0.8O3-Î´ nanostructured cathodes with Ce0.8Gd0.2O1.9 surface coating. Journal of Power Sources, 2017, 347, 178-185.	7.8	38
26	Improving the efficiency of layered perovskite cathodes by microstructural optimization. Journal of Materials Chemistry A, 2017, 5, 7896-7904.	10.3	37
27	Effect of Preparation Conditions on the Polymorphism and Transport Properties of La_{6â€“x}MoO_{12â^Î´} (0 â‰¤ x â‰¤ 0.8). Chemistry of Materials, 2017, 29, 6966-6975.	6.7	35
28	La1â^'xSrxFe0.7Ni0.3O3â^'Î´ as both cathode and anode materials for Solid Oxide Fuel Cells. International Journal of Hydrogen Energy, 2017, 42, 23160-23169.	7.1	25
29	An easy and innovative method based on spray-pyrolysis deposition to obtain high efficiency cathodes for Solid Oxide Fuel Cells. Journal of Power Sources, 2016, 319, 48-55.	7.8	16
30	Crystallochemistry and electrical properties of Al-doped Sr2SiO4 electrolytes. Ceramics International, 2016, 42, 16317-16324.	4.8	3
31	Effect of tri- and tetravalent metal doping on the electrochemical properties of lanthanum tungstate proton conductors. Dalton Transactions, 2016, 45, 3130-3138.	3.3	13
32	Oxyanions in perovskites: from superconductors to solid oxide fuel cells. Dalton Transactions, 2015, 44, 10559-10569.	3.3	39
33	Laser machining of LaNi0.6M0.4O3â^'Î´ (M: Co, Fe) dip-coated on a Feâ€“22Cr mesh material to obtain aÂnew contact coating for SOFC: Interaction between Crofer22APU interconnect and La0.6Sr0.4FeO3 cathode. International Journal of Hydrogen Energy, 2015, 40, 8407-8418.	7.1	12
34	Ti-doped SrFeO₃ nanostructured electrodes for symmetric solid oxide fuel cells. RSC Advances, 2015, 5, 107889-107895.	3.6	44
35	Synthesis and characterization of novel Ge doped Sr 1â^'y Ca y FeO 3â^'Î´ SOFC cathode materials. Materials Research Bulletin, 2015, 67, 63-69.	5.2	6
36	Colloidal processing and characterisation of lanthanum tungstate sheets, La5.5WO11.25, prepared by tape casting and reaction sintering. Ceramics International, 2015, 41, 11334-11340.	4.8	3

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37	Influence of the synthesis method on the structure and electrical properties of Sr1â˜'K GeO3â˜'/2. Ceramics International, 2015, 41, 6542-6551.	4.8	15
38	Evaluation of using protective/conductive coating on Fe-22Cr mesh as a composite cathode contact material for intermediate solid oxide fuel cells. International Journal of Hydrogen Energy, 2015, 40, 4804-4818.	7.1	19
39	Evaluation of lanthanum tungstates as electrolytes for proton conductors Solid Oxide Fuel Cells. Journal of Power Sources, 2015, 294, 483-493.	7.8	18
40	Characterization of LaNi0.6Fe0.4O3 perovskite synthesized by glycine-nitrate combustion method. Solid State Ionics, 2015, 269, 24-29.	2.7	27
41	High valence transition metal doped strontium ferrites for electrode materials in symmetrical SOFCs. Journal of Power Sources, 2014, 249, 405-413.	7.8	105
42	Investigation into the effect of Si doping on the cell symmetry and performance of Sr1â˜'yCayFeO3â˜'Î´ SOFC cathode materials. Journal of Solid State Chemistry, 2014, 213, 132-137.	2.9	22
43	LaNi0.6Co0 4O3â˜' dip-coated on Feâ€"Cr mesh as a composite cathode contact material on intermediate solid oxide fuel cells. Journal of Power Sources, 2014, 269, 509-519.	7.8	19
44	Investigation into the effect of Si doping on the performance of Sr1â˜'yCayMnO3â˜'Î´ SOFC cathode materials. Dalton Transactions, 2013, 42, 5421.	3.3	23
45	Chemical stability and compatibility of double perovskite anode materials for SOFCs. Solid State Ionics, 2013, 239, 1-7.	2.7	79
46	Investigation into the effect of Si doping on the performance of SrFeO3â˜'Î´ SOFC electrode materials. Journal of Materials Chemistry A, 2013, 1, 11834.	10.3	53
47	Synthesis and Characterization of Oxyanionâ€Doped Cobalt Containing Perovskites. Fuel Cells, 2012, 12, 1056-1063.	2.4	28
48	Synthesis and characterisation of oxyanion-doped manganites for potential application as SOFC cathodes. Journal of Materials Chemistry, 2012, 22, 8287.	6.7	44
49	Oxy-apatite reaction sintering of colloidal and classic ceramic processed powders. Ceramics International, 2012, 38, 1851-1858.	4.8	9
50	Single step reactive sintering and chemical compatibility between La9Sr1Si6O26.5 and selected cathode materials. Ceramics International, 2012, 38, 3327-3335.	4.8	12
51	Synthesis of oxyanion-doped barium strontium cobalt ferrites: Stabilization of the cubic perovskite and enhancement in conductivity. Journal of Power Sources, 2012, 209, 180-183.	7.8	35
52	Colloidal Processing and Characterization of Aluminum-Doped Lanthanum Oxyapatite, La10AlSi5O26.5. Journal of the American Ceramic Society, 2011, 94, 117-123.	3.8	12
53	Preparation of aluminium lanthanum oxyapatite tapes, La10AlSi5O26.5, by tape casting and reaction sintering. Journal of the European Ceramic Society, 2011, 31, 1573-1580.	5.7	20
54	Round robin on Rietveld quantitative phase analysis of Portland cements. Journal of Applied Crystallography, 2009, 42, 906-916.	4.5	62

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55	Microstructure and Oxide Ion Conductivity in a Dense La_{9.33}(SiO₄)₆O₂ Oxyâ€Apatite. Journal of the American Ceramic Society, 2009, 92, 1062-1068.	3.8	41
56	Structure and oxide anion conductivity in Ln2(TO4)O (Ln=La, Nd; T=Ge, Si). Journal of Solid State Chemistry, 2008, 181, 2501-2506.	2.9	16
57	Synthesis and Characterization of a New Family of Mixed Oxideâ^'Proton Conductors Based on Tristrontium Oxysilicate. Chemistry of Materials, 2008, 20, 2026-2034.	6.7	11
58	Low temperature crystal structures of apatite oxygen-conductors containing interstitial oxygen. Dalton Transactions, 2007, , 2058-2064.	3.3	29
59	Oxide and proton conductivity in aluminum-doped tricalcium oxy-silicate. Solid State Ionics, 2007, 178, 1073-1080.	2.7	20
60	Phase transition and mixed oxide-proton conductivity in germanium oxy-apatites. Journal of Solid State Chemistry, 2007, 180, 1250-1258.	2.9	61
61	A new family of oxide ion conductors based on tricalcium oxy-silicate. Dalton Transactions, 2006, , 2691-2697.	3.3	8
62	Interstitial oxide positions in oxygen-excess oxy-apatites. Solid State Ionics, 2006, 177, 1307-1315.	2.7	83