Julio Garcia-Fayos

List of Publications by Year
in descending order

26	674	623734	610901
papers	citations	14 h-index	24 g-index

27	27	27	524
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on dual-phase oxygen transport membranes: from fundamentals to commercial deployment. Journal of Materials Chemistry A, 2022, 10, 2152-2195.	10.3	31
2	Evaluation of Er Doped CeO2-Î´ as Oxygen Transport Membrane. Membranes, 2022, 12, 172.	3.0	2
3	Stable, asymmetric, tubular oxygen transport membranes of (Sc2O3)0.10(Y2O3)0.01(ZrO2)0.89 â€“ LaCr0.85Cu0.10Ni0.05O3-Î´. Open Ceramics, 2022, 11, 100292.	2.0	0
4	Gas separation ceramic membranes. , 2020, , 321-385.		7
5	Progress in Ce0.8Gd0.2O2â^'Î´ protective layers for improving the CO2 stability of Ba0.5Sr0.5Co0.8Fe0.2O3â^'Î´ O2-transport membranes. Sustainable Energy and Fuels, 2020, 4, 3747-3752.	4.9	5
6	Oxygen permeation studies in surface Pd-activated asymmetric Ce0.9Gd0.1O1.95 membranes for application in CO2 and CH4 environments. Separation and Purification Technology, 2019, 216, 58-64.	7.9	8
7	Ice-Templating for the Elaboration of Oxygen Permeation Asymmetric Tubular Membrane with Radial Oriented Porosity. Ceramics, 2019, 2, 246-259.	2.6	5
8	Improving the performance of oxygen transport membranes in simulated oxy-fuel power plant conditions by catalytic surface enhancement. Journal of Membrane Science, 2019, 580, 307-315.	8.2	9
9	Enhancing oxygen permeation through Fe₂NiO₄â€“Ce_{0.8}Tb_{0.2}O_{2â^'Î´} composite membranes using porous layers activated with Pr₆O₁₁ nanoparticles. Journal of Materials Chemistry A, 2018, 6, 1201-1209.	10.3	32
10	Dual-phase membrane based on LaCo0.2Ni0.4Fe0.4O3â^'x-Ce0.8Gd0.2O2â^'x composition for oxygen permeation under CO2/SO2-rich gas environments. Journal of Membrane Science, 2018, 548, 117-124.	8.2	26
11	Thermochemical stability of LaxSr1-xCoyFe1-yO3-Î´ and NiFe2O4-Ce0.8Tb0.2O2-Î´ under real conditions for its application in oxygen transport membranes for oxyfuel combustion. Journal of Membrane Science, 2018, 562, 26-37.	8.2	20
12	Mixed Ionicâ€“Electronic Conduction in NiFe₂O₄â€“Ce_{0.8}Gd_{0.2}O_{2â^'Î´} Nanocomposite Thin Films for Oxygen Separation. ChemSusChem, 2018, 11, 2818-2827.	6.8	11
13	Catalyst Screening for Oxidative Coupling of Methane Integrated in Membrane Reactors. Frontiers in Materials, 2018, 5, .	2.4	24
14	Catalytic Oxide-Ion Conducting Materials for Surface Activation of Ba0.5Sr0.5Co0.8Fe0.2O3-Î´Membranes. ChemistrySelect, 2017, 2, 2949-2955.	1.5	5
15	Shaping of 3YSZ porous substrates for oxygen separation membranes. Journal of the European Ceramic Society, 2017, 37, 5223-5231.	5.7	14
16	The Role of Oxygen Partial Pressure in Controlling the Phase Composition of La1â^'x Sr x Co y Fe1â^'y O3â^'Î´ Oxygen Transport Membranes Manufactured by Means of Plasma Spray-Physical Vapor Deposition. Journal of Thermal Spray Technology, 2016, 25, 631-638.	3.1	4
17	Controlling the stress state of La1â^'Sr Co Fe1â^'O3â^' oxygen transport membranes on porous metallic supports deposited by plasma sprayâ€“physical vapor process. Journal of Membrane Science, 2016, 503, 1-7.	8.2	11
18	Dualâ€Phase Oxygen Transport Membranes for Stable Operation in Environments Containing Carbon Dioxide and Sulfur Dioxide. ChemSusChem, 2015, 8, 4242-4249.	6.8	40

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19	Oxygen transport membranes in a biomass/coal combined strategy for reducing CO 2 emissions: Permeation study of selected membranes under different CO 2 -rich atmospheres. Catalysis Today, 2015, 257, 221-228.	4.4	20
20	Enhanced Oxygen Separation through Robust Freezeâ€Cast Bilayered Dualâ€Phase Membranes. ChemSusChem, 2014, 7, 2554-2561.	6.8	52
21	Enhancing oxygen permeation through hierarchically-structured perovskite membranes elaborated by freeze-casting. Journal of Materials Chemistry A, 2014, 2, 3828.	10.3	76
22	Oxygen Permeation Improvement under CO₂â€Rich Environments through Catalytic Activation of Hierarchically Structured Perovskite Membranes. ChemPlusChem, 2014, 79, 1720-1725.	2.8	11
23	Oxygen permeation through tape-cast asymmetric all-La0.6Sr0.4Co0.2Fe0.8O3â˜Î´ membranes. Journal of Membrane Science, 2013, 447, 297-305.	8.2	120
24	Fast Oxygen Separation Through SO₂- and CO₂-Stable Dual-Phase Membrane Based on NiFe₂O₄â€“Ce_{0.8}Tb_{0.2}O_{2-Î´}. Chemistry of Materials, 2013, 25, 4986-4993.	6.7	79
25	Rare Earthâ€doped Ceria Catalysts for ODHE Reaction in a Catalytic Modified MIEC Membrane Reactor. ChemCatChem, 2012, 4, 2102-2111.	3.7	24
26	Ethylene Production by ODHE in Catalytically Modified Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3â˜’Î´} Membrane Reactors. ChemSusChem, 2012, 5, 1587-1596.	6.8	33