## Maria Balaguer

List of Publications by Year in descending order

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414414 430874 1,055 43 18 32 citations h-index g-index papers 43 43 43 1059 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Hydrogen production via microwave-induced water splitting at low temperature. Nature Energy, 2020, 5, 910-919.	39.5	89
2	Structural–Transport Properties Relationships on Ce <sub>1–<i>x</i></sub> Ln <sub><i>x</i></sub> O <sub>2â^îÎ′</sub> System (Ln = Gd, La, Tb, Pr, Eu, Er, Yb,) Tj	E3T.QQQ00	0 <b>7g</b> BT /Over
3	Fast Oxygen Separation Through SO <sub>2</sub> - and CO <sub>2</sub> -Stable Dual-Phase Membrane Based on NiFe <sub>2</sub> O <sub>4</sub> –Ce <sub>0.8</sub> Tb <sub>0.2</sub> O <sub>2-Î</sub> . Chemistry of Materials, 2013, 25, 4986-4993.	6.7	79
4	Study of the Transport Properties of the Mixed Ionic Electronic Conductor $Ce \cdot sub \cdot 1\hat{a}^{\circ} \cdot (i \times \langle i $	6.7	66
5	Particular Transport Properties of NiFe <sub>2</sub> O <sub>4</sub> Thin Films at High Temperatures. Journal of Physical Chemistry C, 2014, 118, 24266-24273.	3.1	53
6	Enhanced Oxygen Separation through Robust Freeze ast Bilayered Dualâ€Phase Membranes. ChemSusChem, 2014, 7, 2554-2561.	6.8	52
7	SOFC composite cathodes based on LSM and co-doped cerias (Ce0.8Gd0.1X0.1O2–δ, XÂ=ÂGd, Cr, Mg, Bi, Ce). Journal of Power Sources, 2013, 223, 214-220.	7.8	48
8	Hydrogen separation through tailored dual phase membranes with nominal composition BaCe0.8Eu0.2O3-δ:Ce0.8Y0.2O2-δ at intermediate temperatures. Scientific Reports, 2016, 6, 34773.	3.3	46
9	Influence of Microstructure and Surface Activation of Dualâ€Phase Membrane Ce <sub>0.8</sub> Gd <sub>0.2</sub> O <sub>2â^Î&lt;,sub&gt;â€"FeCo<sub>2</sub>O<sub>4</sub> on Oxygen Permeation. Journal of the American Ceramic Society, 2016, 99, 349-355.</sub>	3.8	44
10	Bulk transport and oxygen surface exchange of the mixed ionic–electronic conductor Ce1â^'xTbxO2â^'Î (x = 0.1, 0.2, 0.5). Journal of Materials Chemistry A, 2013, 1, 10234.	10.3	40
11	Dualâ€Phase Oxygen Transport Membranes for Stable Operation in Environments Containing Carbon Dioxide and Sulfur Dioxide. ChemSusChem, 2015, 8, 4242-4249.	6.8	40
12	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
13	Comparison of freeze-dried and tape-cast support microstructure on high-flux oxygen transport membrane performance. Journal of Membrane Science, 2018, 564, 218-226.	8.2	29
14	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
15	Rare Earthâ€doped Ceria Catalysts for ODHE Reaction in a Catalytic Modified MIEC Membrane Reactor. ChemCatChem, 2012, 4, 2102-2111.	3.7	24
16	Catalyst Screening for Oxidative Coupling of Methane Integrated in Membrane Reactors. Frontiers in Materials, 2018, 5, .	2.4	24
17	Engineering microstructure and redox properties in the mixed conductor Ce <sub>0.9</sub> Pr <sub>0.1</sub> O <sub>2â°Î</sub> + Co 2 mol%. Dalton Transactions, 2014, 43, 4305-4312.	3.3	22
18	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

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19	Structure and water uptake in BaLnCo2O6â^´Î´ (Ln =La, Pr, Nd, Sm, Gd, Tb and Dy). Acta Materialia, 2020, 199, 297-310.	7.9	18
20	Mixed Proton–Electron Conducting Chromite Electrocatalysts as Anode Materials for LWOâ€Based Solid Oxide Fuel Cells. ChemSusChem, 2012, 5, 2155-2158.	6.8	17
21	Quenching of porous silicon photoluminescence by molecular oxygen and dependence of this phenomenon on storing media and method of preparation of pSi photosensitizer. Journal of Nanoparticle Research, 2010, 12, 2907-2917.	1.9	16
22	Elastic properties of freeze-cast La0.6Sr0.4Co0.2Fe0.8O3â€'δ. Journal of the European Ceramic Society, 2016, 36, 1651-1657.	5.7	16
23	High performance anodes with tailored catalytic properties for La5.6WO11.4â^î^based proton conducting fuel cells. Journal of Materials Chemistry A, 2013, 1, 3004.	10.3	15
24	High-Temperature Structural and Electrical Properties of BaLnCo2O6 Positrodes. Materials, 2020, 13, 4044.	2.9	15
25	Boosting methane partial oxidation on ceria through exsolution of robust Ru nanoparticles. Materials Advances, 2021, 2, 2924-2934.	5.4	15
26	Oxygen permeation and stability of CaTi0.73Fe0.18Mg0.09O3â^'δoxygen-transport membrane. Journal of Membrane Science, 2017, 524, 56-63.	8.2	13
27	Catalytic surface promotion of highly active La0.85Sr0.15Cr0.8Ni0.2O3â^^Î^ anodes for La5.6WO11.4â^^Î^ based proton conducting fuel cells. Applied Catalysis B: Environmental, 2014, 147, 203-207.	20.2	12
28	Electric and magnetic properties of lanthanum barium cobaltite. Journal of the American Ceramic Society, 2020, 103, 1809-1818.	3.8	12
29	Creep behavior of porous La0.6Sr0.4Co0.2Fe0.8O3-δ substrate material for oxygen separation application. Journal of the European Ceramic Society, 2018, 38, 1702-1710.	5.7	11
30	Mixed Ionic–Electronic Conduction in NiFe <sub>2</sub> O <sub>4</sub> –Ce <sub>0.8</sub> Gd <sub>0.2</sub> O <sub>2â^²<i>i⟩Î′</i></sub> Nanocomposite Thin Films for Oxygen Separation. ChemSusChem, 2018, 11, 2818-2827.	6.8	11
31	Durability and photophysical properties of surfactantâ€covered porous silicon particles in aqueous suspensions. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2585-2588.	1.8	10
32	Development and understanding of La0.85Sr0.15Cr1â^'xNixO3â^'δ anodes for La5.6WO11.4â^'δ-based Proton Conducting Solid Oxide Fuel Cells. Journal of Power Sources, 2014, 258, 98-107.	7.8	9
33	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
34	Influence of preparation and storage conditions on photoluminescence of porous silicon powder with embedded Si nanocrystals. Journal of Nanoparticle Research, 2008, 10, 1241-1249.	1.9	7
35	Tailoring Electrocatalytic Properties of Solid Oxide Fuel Cell Composite Cathodes Based on (La <sub>0.8</sub> Sr <sub>0.2</sub> ) <sub>0.95</sub> MnO <sub>3+Î</sub> and Doped Cerias Ce <sub>1â€"x</sub> Ln <sub>x</sub> O <sub>2â€"Î</sub> (Ln=Gd, La, Er, Pr, Tb and x=0.1â€"0.2). Fuel Cells, 20 17. 100-107.	17;4	7
36	Characterization and Optimization of La <sub>0.97</sub> Ni <sub>0.5</sub> Co <sub>0.5</sub> O <sub>3â^'δ</sub> -Based Air-Electrodes for Solid Oxide Cells. ACS Applied Energy Materials, 2018, 1, 2784-2792.	5.1	7

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37	Catalytic Oxide-lon Conducting Materials for Surface Activation of Ba0.5Sr0.5Co0.8Fe0.2O3-Î Membranes. ChemistrySelect, 2017, 2, 2949-2955.	1.5	5
38	In Situ Raman Characterization of SOFC Materials in Operational Conditions: A Doped Ceria Study. Membranes, 2020, 10, 148.	3.0	5
39	Progress in Ce0.8Gd0.2O2ⴴδ protective layers for improving the CO2 stability of Ba0.5Sr0.5Co0.8Fe0.2O3ⴴδ O2-transport membranes. Sustainable Energy and Fuels, 2020, 4, 3747-3752.	4.9	5
40	Nano Suspension of Porous Silicon in Water: Two Methods of Material Preparation and Modification by Surfactants. ECS Transactions, 2007, 6, 63-70.	0.5	2
41	Porous Silicon for Photosensitized Formation of Singlet Oxygen in Water and in Simulated Body Fluid: Two Methods of Modification by Undecylenic Acid. Journal of Nanoscience and Nanotechnology, 2009, 9, 3455-3461.	0.9	2
42	Optimization of SOFC Composite Cathodes Based on LSM and Doped Cerias Ce0.8Ln0.2O2-δ(Ln = Gd, Er, Tb) Tj	ј ЕТ <u>О</u> дО О	0 rgBT /Overlo
43	Evaluation of Er Doped CeO2-δas Oxygen Transport Membrane. Membranes, 2022, 12, 172.	3.0	2