Liliana Mogni

List of Publications by Year
in descending order

74 papers	2,540 citations	236612 25 h-index	197535 49 g-index
75 all docs	75 docs citations	75 times ranked	2205 citing authors

#	Article	IF	Citations
1	<i>In situ</i> neutron diffraction study of BaCe_{0.4}Zr_{0.4}Y_{0.2}O_{3âˆ'<i>Î´</i>} proton conducting perovskite: insight into the phase transition and proton transport mechanism. Journal of Materials Chemistry A, 2022, 10, 9037-9047.	5.2	3
2	Study of the oxygen reduction reaction on pure and Zr-doped YMnO3+Î´ SOFC electrode. Electrochimica Acta, 2021, 365, 137332.	2.6	4
3	Characterization of the high temperature properties of BaCe_{0.4}Zr_{0.4}Pr_{0.2}O_{3âˆ'Î´} perovskite as a potential material for PC-SOFCs. New Journal of Chemistry, 2021, 45, 12957-12965.	1.4	3
4	Protonic Conduction in the BaNdInO₄ Structure Achieved by Acceptor Doping. Chemistry of Materials, 2021, 33, 2139-2146.	3.2	37
5	Nonadiabatic Small Polarons Produced by Ti Ions in Granular and Paramagnetic Cr_{1.8}Ti_{0.2}O_{3+<i>z</i>} Particles. Journal of Physical Chemistry C, 2021, 125, 9371-9382.	1.5	1
6	Study of BaCe0.4Zr0.4Y0.2O3-Î´/BaCe0.8Pr0.2O3-Î´ (BCZY/BCP) bilayer membrane for Protonic Conductor Solid Oxide Fuel Cells (PC-SOFC). International Journal of Hydrogen Energy, 2020, 45, 5481-5490.	3.8	15
7	Effects of neodymium doping on oxygen reduction activity in Pr2âˆ'xNdxNiO4+Î´ cathodes. Solid State Ionics, 2020, 347, 115093.	1.3	7
8	High temperature transport properties of La0.5-xPrxBa0.5CoO3-Î´ perovskite (xâ€¯=â€¯0, 0.2, 0.5). Solid State Ionics, 2020, 347, 115239.	1.3	3
9	Revisiting the Crystal Structure of BaCe_{0.4}Zr_{0.4}Y_{0.2}O_{3âˆ'Î´} Proton Conducting Perovskite and Its Correlation with Transport Properties. ACS Applied Energy Materials, 2020, 3, 2881-2892.	2.5	11
10	Ternary Niâ€"Coâ€"Fe Exsolved Nanoparticles/Perovskite System for Energy Applications: Nanostructure Characterization and Electrochemical Activity. ACS Applied Energy Materials, 2020, 3, 9528-9533.	2.5	12
11	The oxygen reduction reaction in solid oxide fuel cells: from kinetic parameters measurements to electrode design. JPhys Energy, 2020, 2, 042004.	2.3	18
12	Effect of transition metal doping on the crystal structure and oxidation state of Sr2MgMo0.9TM0.1O6âˆ' compounds (TM = Co, Mn or Ni). Journal of Physics and Chemistry of Solids, 2019, 135, 109084.	1.9	3
13	Study of phase stability of SrTi0.3Fe0.7O3âˆ'Î´ perovskite in reducing atmosphere: Effect of microstructure. Solid State Ionics, 2019, 342, 115064.	1.3	12
14	Exsolution and electrochemistry in perovskite solid oxide fuel cell anodes: Role of stoichiometry in Sr(Ti,Fe,Ni)O3. Journal of Power Sources, 2019, 439, 227077.	4.0	50
15	Structural properties and electrical conductivity of perovskite-type oxides in SOFCs. Journal of Physics: Conference Series, 2019, 1219, 012001.	0.3	4
16	High temperature orthorhombic/tetragonal transition and oxygen content of Pr2-xNdxNiO4+Î´ (x= 0,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	10
17	Water insertion and combined interstitial-vacancy oxygen conduction in the layered perovskites La_{1.2}Sr_{0.8âˆ'x}Ba_xInO_{4+Î´}. New Journal of Chemistry, 2019, 43, 6087-6094.	1.4	28
18	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.	1.3	6

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19	The enhanced electrochemical response of Sr(Ti_{0.3}Fe_{0.7}Ru_{0.07})O_{3âˆ’Î´} anodes due to exsolved Ruâ€“Fe nanoparticles. Journal of Materials Chemistry A, 2018, 6, 5193-5201.	5.2	41
20	Ni-Substituted Sr(Ti,Fe)O3 SOFC Anodes: Achieving High Performance via Metal Alloy Nanoparticle Exsolution. Joule, 2018, 2, 478-496.	11.7	220
21	High temperature properties of Sr2MgMo0.9TM0.1O6âˆ’Î´ (TM = Mn, Co and Ni). Ceramics International, 2018, 44, 2539-2546.	2.3	14
22	Study of La4BaCu5âˆ’xCoxO13+Î´ series as potential cathode materials for intermediate-temperature solid oxide fuel cell. Solid State Ionics, 2018, 326, 116-123.	1.3	9
23	An insight into the electrochemical performance of La_{0.5âˆ’x}Pr_xBa_{0.5}CoO_{3âˆ’Î´} as cathodes for solid oxide fuel cells: study of the O₂-reduction reaction. Journal of Materials Chemistry A, 2018, 6, 16699-16709.	5.2	13
24	Cobalt-substituted SrTi_{0.3}Fe_{0.7}O_{3âˆ’Î´}: a stable high-performance oxygen electrode material for intermediate-temperature solid oxide electrochemical cells. Energy and Environmental Science, 2018, 11, 1870-1879.	15.6	93
25	The Electrochemical Properties of Sr(Ti,Fe)O_{3-Î´}for Anodes in Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F364-F371.	1.3	41
26	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.	0.3	2
27	Study of the Mechanisms of O2-Reduction and Degradation Operating on La0.5-XPrxBa0.5CoO3-Î´Cathodes for SOFCs. ECS Transactions, 2017, 78, 1011-1020.	0.3	2
28	Study of Sr2MgMo0.9Ni0.1O6-Î´as SOFC Anode. ECS Transactions, 2017, 78, 1367-1374.	0.3	3
29	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.	2.6	27
30	A high temperature study on thermodynamic, thermal expansion and electrical properties of BaCe0.4Zr0.4Y0.2O3âˆ’Î´ proton conductor. Journal of Power Sources, 2016, 329, 262-267.	4.0	23
31	High-Pressure Performance of Mixed-Conducting Oxygen Electrodes: Effect of Interstitial versus Vacancy Conductivity. Journal of the Electrochemical Society, 2016, 163, F1433-F1439.	1.3	20
32	A High Temperature Study on the Structure, Linear Expansion, Thermodynamic Stability and Electrical Properties of the BaCe_{0.8}Pr_{0.2}O_{3âˆ’Î´}Perovskite. Journal of the Electrochemical Society, 2016, 163, F516-F522.	1.3	8
33	A perspective on low-temperature solid oxide fuel cells. Energy and Environmental Science, 2016, 9, 1602-1644.	15.6	698
34	Study of Electrode Performance for Nanosized La0.4Sr0.6Co0.8Fe0.2O3-I" IT-SOFC Cathode. ECS Transactions, 2015, 66, 169-176.	0.3	4
35	Synthesis of pure-phase Sr2MgMoO6 nanostructured powder by the combustion method. Materials Letters, 2015, 141, 248-251.	1.3	13
36	Anomalous X-ray diffraction study of Pr-substituted BaCeO_{3â€…âˆ’â€…Î´}. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 455-462.	0.5	11

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37	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.	1.3	31
38	A comparative study of high temperature properties of cobalt-free perovskites. Journal of Electroceramics, 2014, 32, 311-318.	0.8	9
39	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.	4.0	33
40	Effect of cationic orderâ€“disorder on the transport properties of LaBaCo₂O_{6â€“Î´}and La_{0.5}Ba_{0.5}CoO_{3â€“Î´}perovskites. Journal of Applied Crystallography, 2014, 47, 325-334.	1.9	33
41	Highly active La 0.4 Sr 0.6 Co 0.8 Fe 0.2 O 3â^'Î´ nanocatalyst for oxygen reduction in intermediate temperature-solid oxide fuel cells. Journal of Power Sources, 2014, 270, 457-467.	4.0	17
42	Effect of Pr-Doping on Structural, Electrical, Thermodynamic, and Mechanical Properties of BaCeO_{3â^'Î´}as Proton Conductor. Journal of the Electrochemical Society, 2014, 161, F969-F976.	1.3	11
43	Review on Ceramic Interphases by Transmission and Scanning Electron Microscopy. Praktische Metallographie/Practical Metallography, 2014, 51, 675-688.	0.1	2
44	Validation of Nd2NiO4+Â as Oxygen Electrode Material for Intermediate Temperature Solid Oxide Cells with LSGM Electrolyte. ECS Transactions, 2013, 58, 183-190.	0.3	8
45	The Soft Chemical Route Improving IT-SOFC Cathode Performance: The Lanthanum Barium Cobaltite Case. ECS Transactions, 2013, 58, 191-198.	0.3	5
46	Increasing Conductivity in Proton Conductors BaCeO_{3-Î´} Doped with Pr. ECS Transactions, 2013, 58, 173-181.	0.3	1
47	Oxygen orderâ€“disorder phase transition in layered GdBaCo2O5+Î´ perovskite: Thermodynamic and transport properties. Solid State Ionics, 2013, 240, 19-28.	1.3	39
48	Optimum cathode configuration for IT-SOFC using La0.4Ba0.6CoO3â^'Î´ and Ce0.9Gd0.1O1.95. International Journal of Hydrogen Energy, 2012, 37, 14895-14901.	3.8	33
49	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.	3.8	25
50	Characterization of the La_{1â^'x}Ba_xCoO_{3â^'Î´}(0 â‰ x â‰ 1) System as Cathode Material for IT-SOFC. Journal of the Electrochemical Society, 2011, 159, B72-B79.	1.3	27
51	Oxygen Reduction Reaction on Ruddlesdenâ€“Popper Phases Studied by Impedance Spectroscopy. Journal of the Electrochemical Society, 2011, 158, B202.	1.3	26
52	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.	3.8	135
53	Physicochemical properties of non-stoichiometric oxides. Journal of Thermal Analysis and Calorimetry, 2011, 103, 597-606.	2.0	8
54	Physicochemical properties of non-stoichiometric oxides. Journal of Thermal Analysis and Calorimetry, 2011, 104, 781-788.	2.0	6

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55	La2NiO4+Î´ as cathode for SOFC: Reactivity study with YSZ and CGO electrolytes. International Journal of Hydrogen Energy, 2010, 35, 6031-6036.	3.8	88
56	On the thermodynamic stability of La2Mo2O9â^'Î´ oxide-ion conductor. International Journal of Hydrogen Energy, 2010, 35, 5890-5894.	3.8	22
57	Rate limiting steps of the porous La0.6Sr0.4Co0.8Fe0.2O3â^'Î´ electrode material. Solid State Ionics, 2009, 180, 1448-1452.	1.3	62
58	Study of the Crystal Chemistry of the n = 2 Ruddlesdenâ^'Popper Phases Sr3FeMO6+Î´ (M = Fe, Co, and Ni) Using in Situ High Temperature Neutron Powder Diffraction. Chemistry of Materials, 2009, 21, 2614-2623.	3.2	19
59	Study of<i>LnBaCo</i>₂<i>O</i>_{6-Î´}(Ln = Pr, Nd, Sm and Gd) double perovskites as new cathode material for IT-SOFC. Journal of Physics: Conference Series, 2009, 167, 012043.	0.3	34
60	High Temperature Crystal Chemistry and Oxygen Permeation Properties of the Mixed Ionicâ€"Electronic Conductors LnBaCo[sub 2]O[sub 5+Î´] (Ln=Lanthanide). Journal of the Electrochemical Society, 2009, 156, B1376.	1.3	91
61	Electrochemical Characterization of the n = 2 Ruddlesden-Popper Sr3FeMO6+Î´ (M = Fe, Co, Ni) Phases by Electrochemical Impedance Spectroscopy. ECS Transactions, 2007, 6, 233-243.	0.3	2
62	Neutron powder diffraction study at high temperature of the Ruddlesdenâ€"Popper phase Sr3Fe2O6+Î´. Solid State Ionics, 2007, 178, 77-82.	1.3	40
63	Defect Structure and Electrical Conductivity of the Ruddlesdenâ^'Popper Phases Sr3FeMO6+Î´(M = Co,) Tj ETQq1 1 0.784314 rgBT /Ov	3.2	20
64	High temperature properties of the n=2 Ruddlesdenâ€"Popper phases (La,Sr)3(Fe,Ni)2O7â^'Î´. Solid State Ionics, 2006, 177, 1807-1810.	1.3	17
65	Synthesis, crystal chemistry and physical properties of the Ruddlesdenâ€"Popper phases Sr3Fe2â^'xNixO7â^'Î´ (0â©½xâ©½1.0). Journal of Solid State Chemistry, 2005, 178, 1559-1568.	1.4	26
66	High-temperature thermodynamic and transport properties of the mixed conductor. Journal of Solid State Chemistry, 2005, 178, 2715-2723.	1.4	33
67	Iron oxide nanoparticles inside the MCM-41 channels: Study of the structural stability of the support. Microporous and Mesoporous Materials, 2005, 84, 153-160.	2.2	34
68	Electronic structure of the two-dimensional negative charge-transfer materialSr3FeMO7(M=Fe, Co). Physical Review B, 2005, 71, .	1.1	15
69	Electronic structure of the negative charge-transfer material Sr3FeMO7 (M=Fe, Co, Ni). Physica B: Condensed Matter, 2004, 354, 7-10.	1.3	4
70	Phase equilibrium and electrical conductivity of SrCo0.8Fe0.2O3â^'Î´. Journal of Solid State Chemistry, 2004, 177, 2350-2357.	1.4	74
71	Characterization of Nanosized Maghemite Particles Prepared by Microemulsion Using an Ionic Surfactant. Hyperfine Interactions, 2003, 148/149, 103-108.	0.2	12
72	Dependence of the Structural Stability of MCM-41 on the Impregnating Iron Solution. Hyperfine Interactions, 2003, 148/149, 185-191.	0.2	6

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73	Analytical resolution of a parallel second-order reaction mechanism. International Journal of Chemical Kinetics, 2003, 35, 246-251.	1.0	0
74	Hydrogen absorption behavior of multicomponent zirconium based AB2 alloys with different chromiumâ€“vanadium ratio. Journal of Alloys and Compounds, 2003, 354, 181-186.	2.8	23