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	A perspective on low-temperature solid oxide fuel cells. Energy and Environmental Science, 2016, 9, 1602-1644.	15.6	698
2	Ni-Substituted Sr(Ti,Fe)O3 SOFC Anodes: Achieving High Performance via Metal Alloy Nanoparticle Exsolution. Joule, 2018, 2, 478-496.	11.7	220
3	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
4	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
5	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
6	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
7	Phase equilibrium and electrical conductivity of SrCo0.8Fe0.2O3âˆ'Î´. Journal of Solid State Chemistry, 2004, 177, 2350-2357.	1.4	74
8	Rate limiting steps of the porous La0.6Sr0.4Co0.8Fe0.2O3âˆ'Î´ electrode material. Solid State Ionics, 2009, 180, 1448-1452.	1.3	62
9	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
10	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
11	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
12	Neutron powder diffraction study at high temperature of the Ruddlesdenâ€"Popper phase Sr3Fe2O6+Î´. Solid State Ionics, 2007, 178, 77-82.	1.3	40
13	Oxygen orderâ€"disorder phase transition in layered GdBaCo2O5+Î´ perovskite: Thermodynamic and transport properties. Solid State Ionics, 2013, 240, 19-28.	1.3	39
14	Protonic Conduction in the BaNdInO₄ Structure Achieved by Acceptor Doping. Chemistry of Materials, 2021, 33, 2139-2146.	3.2	37
15	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
16	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
17	High-temperature thermodynamic and transport properties of the mixed conductor. Journal of Solid State Chemistry, 2005, 178, 2715-2723.	1.4	33
18	Optimum cathode configuration for IT-SOFC using La0.4Ba0.6CoO3âˆ'Î´ and Ce0.9Gd0.1O1.95. International Journal of Hydrogen Energy, 2012, 37, 14895-14901.	3.8	33

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19	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
20	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
21	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
22	Water insertion and combined interstitial-vacancy oxygen conduction in the layered perovskites La_{1.2}Sr_{0.8â^'x}Ba_xInO_{4+Î´}. New Journal of Chemistry, 2019, 43, 6087-6094.	1.4	28
23	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
24	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
25	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
26	Oxygen Reduction Reaction on Ruddlesdenâ€“Popper Phases Studied by Impedance Spectroscopy. Journal of the Electrochemical Society, 2011, 158, B202.	1.3	26
27	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
28	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
29	A high temperature study on thermodynamic, thermal expansion and electrical properties of BaCe0.4Zr0.4Y0.2O3â^'Î´ proton conductor. Journal of Power Sources, 2016, 329, 262-267.	4.0	23
30	On the thermodynamic stability of La2Mo2O9â^'Î´ oxide-ion conductor. International Journal of Hydrogen Energy, 2010, 35, 5890-5894.	3.8	22
31	Defect Structure and Electrical Conductivity of the Ruddlesdenâ^'Popper Phases Sr3FeMO6+Î´(M = Co,) Tj ETQq1 1 0.784314 rgBT /Ov	3.2	20
32	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
33	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
34	The oxygen reduction reaction in solid oxide fuel cells: from kinetic parameters measurements to electrode design. JPhys Energy, 2020, 2, 042004.	2.3	18
35	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
36	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

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37	Electronic structure of the two-dimensional negative charge-transfer materialSr3FeMO7(M=Fe, Co). Physical Review B, 2005, 71, .	1.1	15
38	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
39	High temperature properties of Sr2MgMo0.9TM0.1O6â^'Î´ (TM = Mn, Co and Ni). Ceramics International, 2018, 44, 2539-2546.	2.3	14
40	Synthesis of pure-phase Sr2MgMoO6 nanostructured powder by the combustion method. Materials Letters, 2015, 141, 248-251.	1.3	13
41	An insight into the electrochemical performance of La_{0.5â^'x}Pr_xBa_{0.5}CoO_{3â^'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
42	Characterization of Nanosized Maghemite Particles Prepared by Microemulsion Using an Ionic Surfactant. Hyperfine Interactions, 2003, 148/149, 103-108.	0.2	12
43	Study of phase stability of SrTi0.3Fe0.7O3â^'Î´ perovskite in reducing atmosphere: Effect of microstructure. Solid State Ionics, 2019, 342, 115064.	1.3	12
44	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
45	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
46	Anomalous X-ray diffraction study of Pr-substituted BaCeO_{3â€…â^'â€…Î´}. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 455-462.	0.5	11
47	Revisiting the Crystal Structure of BaCe_{0.4}Zr_{0.4}Y_{0.2}O_{3â^'Î´} Proton Conducting Perovskite and Its Correlation with Transport Properties. ACS Applied Energy Materials, 2020, 3, 2881-2892.	2.5	11
48	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
49	A comparative study of high temperature properties of cobalt-free perovskites. Journal of Electroceramics, 2014, 32, 311-318.	0.8	9
50	Study of La4BaCu5â^'xCoxO13+Î´ series as potential cathode materials for intermediate-temperature solid oxide fuel cell. Solid State Ionics, 2018, 326, 116-123.	1.3	9
51	Physicochemical properties of non-stoichiometric oxides. Journal of Thermal Analysis and Calorimetry, 2011, 103, 597-606.	2.0	8
52	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
53	A High Temperature Study on the Structure, Linear Expansion, Thermodynamic Stability and Electrical Properties of the BaCe_{0.8}Pr_{0.2}O_{3â^'Î´}Perovskite. Journal of the Electrochemical Society, 2016, 163, F516-F522.	1.3	8
54	Effects of neodymium doping on oxygen reduction activity in Pr2â^'xNdxNiO4+Î´ cathodes. Solid State Ionics, 2020, 347, 115093.	1.3	7

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55	Dependence of the Structural Stability of MCM-41 on the Impregnating Iron Solution. Hyperfine Interactions, 2003, 148/149, 185-191.	0.2	6
56	Physicochemical properties of non-stoichiometric oxides. Journal of Thermal Analysis and Calorimetry, 2011, 104, 781-788.	2.0	6
57	Study of La_{0.6}Sr_{0.4}Co_{1-x}Fe_xO_{3-Î´} (x = 0.2) Tj ETQq1 1 0.784314 rgBT of the Electrochemical Society, 2019, 166, F1301-F1307.	1.3	6
58	The Soft Chemical Route Improving IT-SOFC Cathode Performance: The Lanthanum Barium Cobaltite Case. ECS Transactions, 2013, 58, 191-198.	0.3	5
59	Electronic structure of the negative charge-transfer material Sr3FeMO7 (M=Fe, Co, Ni). Physica B: Condensed Matter, 2004, 354, 7-10.	1.3	4
60	Study of Electrode Performance for Nanosized La0.4Sr0.6Co0.8Fe0.2O3-I" IT-SOFC Cathode. ECS Transactions, 2015, 66, 169-176.	0.3	4
61	Structural properties and electrical conductivity of perovskite-type oxides in SOFCs. Journal of Physics: Conference Series, 2019, 1219, 012001.	0.3	4
62	Study of the oxygen reduction reaction on pure and Zr-doped YMnO3+Î´ SOFC electrode. Electrochimica Acta, 2021, 365, 137332.	2.6	4
63	Study of Sr2MgMo0.9Ni0.1O6-Î´as SOFC Anode. ECS Transactions, 2017, 78, 1367-1374.	0.3	3
64	Effect of transition metal doping on the crystal structure and oxidation state of Sr2MgMo0.9TM0.1O6â˜’ compounds (TM = Co, Mn or Ni). Journal of Physics and Chemistry of Solids, 2019, 135, 109084.	1.9	3
65	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
66	Characterization of the high temperature properties of BaCe_{0.4}Zr_{0.4}Pr_{0.2}O_{3â˜’Î´} perovskite as a potential material for PC-SOFCs. New Journal of Chemistry, 2021, 45, 12957-12965.	1.4	3
67	<i>In situ</i> neutron diffraction study of BaCe_{0.4}Zr_{0.4}Y_{0.2}O_{3â˜’<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
68	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
69	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
70	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
71	Review on Ceramic Interphases by Transmission and Scanning Electron Microscopy. Praktische Metallographie/Practical Metallography, 2014, 51, 675-688.	0.1	2
72	Increasing Conductivity in Proton Conductors BaCeO_{3-Î´} Doped with Pr. ECS Transactions, 2013, 58, 173-181.	0.3	1

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73	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
74	Analytical resolution of a parallel second-order reaction mechanism. International Journal of Chemical Kinetics, 2003, 35, 246-251.	1.0	0