Idoia Ruiz de Larramendi

List of Publications by Year
in descending order

69 papers	4,242 citations	304743 22 h-index	114465 63 g-index
75 all docs	75 docs citations	75 times ranked	8372 citing authors

#	ARTICLE	IF	CITATIONS
1	Alternative anodes for Naâ€"O₂ batteries: the case of the Sn₄P₃ alloy. Journal of Materials Chemistry A, 2022, 10, 2398-2411.	10.3	2
2	Unveiling the Role of Tetrabutylammonium and Cesium Bulky Cations in Enhancing Naâ€O₂ Battery Performance. Advanced Energy Materials, 2022, 12, .	19.5	13
3	Towards the design of contrast-enhanced agents: systematic Ga³⁺ doping on magnetite nanoparticles. Dalton Transactions, 2022, 51, 2517-2530.	3.3	4
4	PROMOTING SUSTAINABLE DEVELOPMENT IN CHEMISTRY DEGREE: IMPLEMENTATION OF AN E-LEARNING PLATFORM. EDULEARN Proceedings, 2022, , .	0.0	0
5	DESIGN OF AN INQUIRY-BASED LEARNING PROCESS APPLIED TO THE INTEGRATION OF SUSTAINABILITY IN DEGREE FINAL PROJECTS IN CHEMISTRY. , 2021, , .		0
6	(Invited) Sodium Layered Oxides in the Spotlight: Current State-of-Art and Remaining Challenges. ECS Meeting Abstracts, 2021, MA2021-02, 229-229.	0.0	0
7	An Overview of Engineered Grapheneâ€Based Cathodes: Boosting Oxygen Reduction and Evolution Reactions in Lithiumâ€" and Sodiumâ€"Oxygen Batteries. ChemSusChem, 2020, 13, 1203-1225.	6.8	19
8	Naâ€Ion Batteriesâ€"Approaching Old and New Challenges. Advanced Energy Materials, 2020, 10, 2002055.	19.5	229
9	Unraveling the Effect of Singlet Oxygen on Metal-O2 Batteries: Strategies Toward Deactivation. Frontiers in Chemistry, 2020, 8, 605.	3.6	12
10	Singlet oxygen formation in Na O2 battery cathodes catalyzed by ammonium BrÃ¶nsted acid. Journal of Electroanalytical Chemistry, 2020, 872, 114265.	3.8	12
11	Impact of Lithium and Potassium Cations on the MÃ¶ssbauer Spectral and Electrical Properties of Two Mixed-Valence Iron(II/III) Phosphites. Chemistry of Materials, 2020, 32, 5534-5540.	6.7	2
12	Crystal structure, magneto-structural correlation, thermal and electrical studies of an imidazolium halometallate molten salt: (trimim)[FeCl4]. RSC Advances, 2020, 10, 11200-11209.	3.6	11
13	Goldilocks and the three glymes: How Na+ solvation controls Naâ€"O2 battery cycling. Energy Storage Materials, 2020, 29, 235-245.	18.0	21
14	Redox mediators: a shuttle to efficacy in metalâ€"O₂ batteries. Journal of Materials Chemistry A, 2019, 7, 8746-8764.	10.3	54
15	Nanoelikagaiak: tamainak axola duenean. Ekaia (journal), 2019, , 143-163.	0.0	0
16	DEVELOPMENT OF A MOODLE-BASED PLATFORM TO AID IN THE LEARNING PROCESS OF CHEMICAL NOMENCLATURE. , 2019, , .		0
17	Modifying the ORR route by the addition of lithium and potassium salts in Na-O2 batteries. Electrochimica Acta, 2018, 263, 102-109.	5.2	11
18	Exploring Reaction Conditions to Improve the Magnetic Response of Cobalt-Doped Ferrite Nanoparticles. Nanomaterials, 2018, 8, 63.	4.1	13

#	Article	IF	Citations
19	Potassium Salts as Electrolyte Additives in Lithiumâ€“Oxygen Batteries. Journal of Physical Chemistry C, 2017, 121, 3822-3829.	3.1	28
20	Understanding the charge/discharge mechanisms and passivation reactions in Na-O 2 batteries. Journal of Power Sources, 2017, 345, 237-246.	7.8	19
21	Architecture of Na-O2 battery deposits revealed by transmission X-ray microscopy. Nano Energy, 2017, 37, 224-231.	16.0	32
22	Substrate-induced dielectric polarization in thin films of lead-free (Sr 0.5 Bi 0.5) 2 Mn 2-x Ti x O 6-Î´ perovskites grown by pulsed laser deposition. Applied Surface Science, 2017, 399, 387-395.	6.1	2
23	Improving Naâ€“O₂ batteries with redox mediators. Chemical Communications, 2017, 53, 12008-12011.	4.1	31
24	New Insights into the Instability of Discharge Products in Naâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2016, 8, 20120-20127.	8.0	63
25	Sodiumâ€“Oxygen Battery: Steps Toward Reality. Journal of Physical Chemistry Letters, 2016, 7, 1161-1166.	4.6	86
26	Nanoteknologia: artsenikoaren erauzketarako bide berria. Ekaia (journal), 2016, , 87-105.	0.0	0
27	Carbonâ€Free Cathodes: A Step Forward in the Development of Stable Lithiumâ€“Oxygen Batteries. ChemSusChem, 2015, 8, 3932-3940.	6.8	29
28	Monitoring the Location of Cathode-Reactions in Li-O₂Batteries. Journal of the Electrochemical Society, 2015, 162, A3126-A3132.	2.9	29
29	Operando UV-visible spectroscopy evidence of the reactions of iodide as redox mediator in Liâ€“O2 batteries. Electrochemistry Communications, 2015, 59, 24-27.	4.7	32
30	In vivo integrity of polymer-coated gold nanoparticles. Nature Nanotechnology, 2015, 10, 619-623.	31.5	314
31	Nd and Sc co-doped BiFeO3 nanopowders displaying enhanced ferromagnetism at room temperature. Journal of Alloys and Compounds, 2015, 638, 282-288.	5.5	12
32	R-MnO2 nanourchins: a promising catalyst in Li-O2 batteries. Materials Research Society Symposia Proceedings, 2014, 1643, 1.	0.1	1
33	Electrochemical characterization of La0.6Ca0.4Fe0.8Ni0.2O3 cathode on Ce0.8Gd0.2O1.9 electrolyte for IT-SOFC. International Journal of Hydrogen Energy, 2014, 39, 6675-6679.	7.1	21
34	In situ monitoring of discharge/charge processes in Liâ€“O2 batteries by electrochemical impedance spectroscopy. Journal of Power Sources, 2014, 249, 110-117.	7.8	47
35	Microstructural improvements of the gradient composite material Pr0.6Sr0.4Fe0.8Co0.2O3/Ce0.8Sm0.2O1.9 by employing vertically aligned carbon nanotubes. International Journal of Hydrogen Energy, 2014, 39, 4074-4080.	7.1	3
36	The Challenge To Relate the Physicochemical Properties of Colloidal Nanoparticles to Their Cytotoxicity. Accounts of Chemical Research, 2013, 46, 743-749.	15.6	330

#	Article	IF	Citations
37	Optimizing solid oxide fuel cell cathode processing route for intermediate temperature operation. Applied Energy, 2013, 104, 984-991.	10.1	24
38	Electrochemical characterization of La0.6Ca0.4Fe0.8Ni0.2O3âˆ'Î´ perovskite cathode forÂIT-SOFC. Journal of Power Sources, 2013, 239, 196-200.	7.8	22
39	Magnetic ionic plastic crystal: choline[FeCl4]. Physical Chemistry Chemical Physics, 2013, 15, 12724.	2.8	23
40	The Formation of Performance Enhancing Pseudoâ€Composites in the Highly Active La_{1â€“<i>x</i>}Ca_{<i>x</i>}Fe_{0.8}Ni_{0.2}O₃ System for ITâ€SOFC Application. Advanced Functional Materials, 2013, 23, 5131-5139.	14.9	40
41	Optical Sensing of Small Ions with Colloidal Nanoparticles. Chemistry of Materials, 2012, 24, 738-745.	6.7	60
42	Antibacterial properties of nanoparticles. Trends in Biotechnology, 2012, 30, 499-511.	9.3	2,113
43	A New Partially Deprotonated Mixed-Valence Manganese(II,III) Hydroxideâ€“Arsenate with Electronic Conductivity: Magnetic Properties of High- and Room-Temperature Sarkinite. Inorganic Chemistry, 2012, 51, 5246-5256.	4.0	9
44	Novel Pr0.6Sr0.4Fe0.8Co0.2O3:Ce0.8Sm0.2O2 composite nanotubes for energy conversion and storage. Journal of Power Sources, 2012, 201, 332-339.	7.8	15
45	Effect of the Strontium Content on the Electrochemical Performance of the Perovskite-Type Pr1-xSrxFe0.8Co0.2O3 Oxides. ECS Transactions, 2011, 35, 2183-2190.	0.5	2
46	A straightforward synthesis of carbon nanotubeâ€“perovskite composites for solid oxide fuel cells. Journal of Materials Chemistry, 2011, 21, 10273.	6.7	11
47	A novel one step synthesized Co-free perovskite/brownmillerite nanocomposite for solid oxide fuel cells. Journal of Materials Chemistry, 2011, 21, 9682.	6.7	23
48	Oriented nanocrystals in SrLaMnTiO6 perovskite thin films grown by pulsed laser deposition. Journal of Alloys and Compounds, 2011, 509, 1457-1462.	5.5	8
49	Recovery by hydrometallurgical extraction of the platinum-group metals from car catalytic converters. Minerals Engineering, 2011, 24, 505-513.	4.3	152
50	Pr-doped ceria nanoparticles as intermediate temperature ionic conductors. International Journal of Hydrogen Energy, 2011, 36, 10981-10990.	7.1	22
51	Synthesis of highly ordered three-dimensional nanostructures and the influence of the temperature on their application as solid oxide fuel cells cathodes. Journal of Power Sources, 2011, 196, 4174-4180.	7.8	12
52	Optimization of La0.6Ca0.4Fe0.8Ni0.2O3â€“Ce0.8Sm0.2O2 composite cathodes for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2011, 196, 4332-4336.	7.8	14
53	La0.6Sr0.2Ca0.2Fe0.8Ni0.2O3 thin films obtained by pulsed laser ablation: Effect of the substrate on the electrochemical behavior. Solid State Ionics, 2011, 192, 584-590.	2.7	7
54	Influence of colloidal templates on the impedance spectroscopic behaviour of Pr0.7Sr0.3Fe0.8Ni0.2O3 for solid oxide fuel cell applications. Solid State Ionics, 2011, 192, 235-240.	2.7	3

#	Article	IF	Citations
55	Nanoparticles of La0.8Ca0.2Fe0.8Ni0.2O3â^'Î´ perovskite for solid oxide fuel cell application. Materials Research Bulletin, 2010, 45, 1513-1519.	5.2	27
56	Nanostructured Gd0.8Sr0.2Fe0.8M0.2O3 (M=Cr, Ga) materials for solid oxide fuel cell cathodes. Physics Procedia, 2010, 8, 2-9.	1.2	5
57	LiFePO4 thin films grown by pulsed laser deposition: Effect of the substrate on the film structure and morphology. Applied Surface Science, 2010, 256, 2563-2568.	6.1	23
58	Effect of Electrolyte Contribution on the Electrochemical Behaviour of Pr0.8Sr0.2Fe0.8Ga0.2O3. ECS Transactions, 2009, 25, 2799-2806.	0.5	2
59	Synthesis and electrochemical performance of La0.6Ca0.4Fe1â^'xNixO3 (x=0.1, 0.2, 0.3) material for solid oxide fuel cell cathode. Journal of Power Sources, 2009, 192, 63-69.	7.8	25
60	Development of electrolyte-supported intermediate-temperature single-chamber solid oxide fuel cells using Ln0.7Sr0.3Fe0.8Co0.2O3â^'Î´ (Ln=Pr, La, Gd) cathodes. Journal of Power Sources, 2009, 193, 774-778.	7.8	20
61	(NH4): A new mixed valence vanadium(III,IV) fluoro-arsenate with ferromagnetic interactions and electronic conductivity. Journal of Solid State Chemistry, 2009, 182, 65-71.	2.9	7
62	Nanostructure and Impedance Spectroscopy of Pr0.7Sr0.3Mn1-xMxO3 (M = Fe, Co, Ni; x = 0 and 0.2) Thin Films Grown by Pulsed Laser Deposition. Open Inorganic Chemistry Journal, 2009, 3, 47-55.	0.3	1
63	Structure and impedance spectroscopy of Pr1â^'x Sr x Fe0.8Co0.2O3â^'Î´ (x=0.1, 0.2, 0.3) thin films grown by laser ablation. Applied Physics A: Materials Science and Processing, 2008, 93, 655-661.	2.3	3
64	Unusual magnetic properties in Pr1â^'xSrxFe0.8Ni0.2O3â^'Î´â€‚(xâ‰0.3). Journal of Applied Physics, 2008, 103, 033902.	2.5	6
65	Performance of Ln0.7Sr0.3Fe0.8Co0.2O3-Î´ (Ln = Pr, La, Gd) Cathodes for Intermediate-Temperature SOFCs Synthesized by a Novel Gel-Combustion Route. ECS Transactions, 2007, 7, 1147-1155.	0.5	1
66	Synthesis and Performance of La0.6Ca0.4Fe0.8Ni0.2O3-Î´ Material for Intermediate-Temperature SOFC Cathode. ECS Transactions, 2007, 7, 1157-1164.	0.5	4
67	Structural and electrical properties of thin films of Pr0.8Sr0.2Fe0.8Ni0.2O3â^'Î´. Journal of Power Sources, 2007, 169, 35-39.	7.8	15
68	Structure and impedance spectroscopy of La0.6Ca0.4Fe0.8Ni0.2O3â^'Î´ thin films grown by pulsed laser deposition. Journal of Power Sources, 2007, 171, 747-753.	7.8	21
69	Designing Perovskite Oxides for Solid Oxide Fuel Cells. , 0, , .		2