

Idoia Ruiz de Larramendi

List of Publications by Year in descending order

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69
papers

4,242
citations

346980

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all docs

75
docs citations

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times ranked

9548
citing authors

#	ARTICLE	IF	CITATIONS
1	Alternative anodes for Na ⁺ O ₂ batteries: the case of the Sn ₄ P ₃ alloy. Journal of Materials Chemistry A, 2022, 10, 2398-2411.	5.2	2
2	Unveiling the Role of Tetrabutylammonium and Cesium Bulky Cations in Enhancing Na ⁺ O ₂ Battery Performance. Advanced Energy Materials, 2022, 12, .	10.2	13
3	Towards the design of contrast-enhanced agents: systematic Ga ³⁺ doping on magnetite nanoparticles. Dalton Transactions, 2022, 51, 2517-2530.	1.6	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 Graphene-Based Cathodes: Boosting Oxygen Reduction and Evolution Reactions in Lithium ⁺ and Sodium ⁺ Oxygen Batteries. ChemSusChem, 2020, 13, 1203-1225.	3.6	19
8	Na ⁺ Ion Batteries Approaching Old and New Challenges. Advanced Energy Materials, 2020, 10, 2002055.	10.2	229
9	Unraveling the Effect of Singlet Oxygen on Metal-O ₂ Batteries: Strategies Toward Deactivation. Frontiers in Chemistry, 2020, 8, 605.	1.8	12
10	Singlet oxygen formation in Na O ₂ battery cathodes catalyzed by ammonium Brønsted acid. Journal of Electroanalytical Chemistry, 2020, 872, 114265.	1.9	12
11	Impact of Lithium and Potassium Cations on the Mössbauer Spectral and Electrical Properties of Two Mixed-Valence Iron(II/III) Phosphites. Chemistry of Materials, 2020, 32, 5534-5540.	3.2	2
12	Crystal structure, magneto-structural correlation, thermal and electrical studies of an imidazolium halometallate molten salt: (trimim)[FeCl ₄]. RSC Advances, 2020, 10, 11200-11209.	1.7	11
13	Goldilocks and the three glymes: How Na ⁺ solvation controls Na ⁺ O ₂ battery cycling. Energy Storage Materials, 2020, 29, 235-245.	9.5	21
14	Redox mediators: a shuttle to efficacy in metal ⁺ O ₂ batteries. Journal of Materials Chemistry A, 2019, 7, 8746-8764.	5.2	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-O ₂ batteries. Electrochimica Acta, 2018, 263, 102-109.	2.6	11
18	Exploring Reaction Conditions to Improve the Magnetic Response of Cobalt-Doped Ferrite Nanoparticles. Nanomaterials, 2018, 8, 63.	1.9	13

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19	Potassium Salts as Electrolyte Additives in Lithium ⁺ Oxygen Batteries. Journal of Physical Chemistry C, 2017, 121, 3822-3829.	1.5	28
20	Understanding the charge/discharge mechanisms and passivation reactions in Na-O ₂ batteries. Journal of Power Sources, 2017, 345, 237-246.	4.0	19
21	Architecture of Na-O ₂ battery deposits revealed by transmission X-ray microscopy. Nano Energy, 2017, 37, 224-231.	8.2	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-δ} perovskites grown by pulsed laser deposition. Applied Surface Science, 2017, 399, 387-395.	3.1	2
23	Improving Na ⁺ O ₂ batteries with redox mediators. Chemical Communications, 2017, 53, 12008-12011.	2.2	31
24	New Insights into the Instability of Discharge Products in Na ⁺ O ₂ Batteries. ACS Applied Materials & Interfaces, 2016, 8, 20120-20127.	4.0	63
25	Sodium ⁺ Oxygen Battery: Steps Toward Reality. Journal of Physical Chemistry Letters, 2016, 7, 1161-1166.	2.1	86
26	Nanoteknologia: artsenikoaren erauzketarako bide berria. Ekaia (journal), 2016, , 87-105.	0.0	0
27	Carbon ⁻ Free Cathodes: A Step Forward in the Development of Stable Lithium ⁺ Oxygen Batteries. ChemSusChem, 2015, 8, 3932-3940.	3.6	29
28	Monitoring the Location of Cathode-Reactions in Li-O ₂ Batteries. Journal of the Electrochemical Society, 2015, 162, A3126-A3132.	1.3	29
29	Operando UV-visible spectroscopy evidence of the reactions of iodide as redox mediator in Li ⁺ O ₂ batteries. Electrochemistry Communications, 2015, 59, 24-27.	2.3	32
30	In vivo integrity of polymer-coated gold nanoparticles. Nature Nanotechnology, 2015, 10, 619-623.	15.6	314
31	Nd and Sc co-doped BiFeO ₃ nanopowders displaying enhanced ferromagnetism at room temperature. Journal of Alloys and Compounds, 2015, 638, 282-288.	2.8	12
32	R-MnO ₂ nanourchins: a promising catalyst in Li-O ₂ batteries. Materials Research Society Symposia Proceedings, 2014, 1643, 1.	0.1	1
33	Electrochemical characterization of La _{0.6} Ca _{0.4} Fe _{0.8} Ni _{0.2} O ₃ cathode on Ce _{0.8} Gd _{0.2} O _{1.9} electrolyte for IT-SOFC. International Journal of Hydrogen Energy, 2014, 39, 6675-6679.	3.8	21
34	In situ monitoring of discharge/charge processes in Li ⁺ O ₂ batteries by electrochemical impedance spectroscopy. Journal of Power Sources, 2014, 249, 110-117.	4.0	47
35	Microstructural improvements of the gradient composite material Pr _{0.6} Sr _{0.4} Fe _{0.8} Co _{0.2} O ₃ /Ce _{0.8} Sm _{0.2} O _{1.9} by employing vertically aligned carbon nanotubes. International Journal of Hydrogen Energy, 2014, 39, 4074-4080.	3.8	3
36	The Challenge To Relate the Physicochemical Properties of Colloidal Nanoparticles to Their Cytotoxicity. Accounts of Chemical Research, 2013, 46, 743-749.	7.6	330

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37	Optimizing solid oxide fuel cell cathode processing route for intermediate temperature operation. Applied Energy, 2013, 104, 984-991.	5.1	24
38	Electrochemical characterization of $\text{La}_{0.6}\text{Ca}_{0.4}\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_{3-\delta}$ perovskite cathode for IT-SOFC. Journal of Power Sources, 2013, 239, 196-200.	4.0	22
39	Magnetic ionic plastic crystal: choline $[\text{FeCl}_4]$. Physical Chemistry Chemical Physics, 2013, 15, 12724.	1.3	23
40	The Formation of Performance Enhancing Pseudo-Composites in the Highly Active $\text{La}_{1-x}\text{Ca}_x\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_{3-\delta}$ System for SOFC Application. Advanced Functional Materials, 2013, 23, 5131-5139.	7.8	40
41	Optical Sensing of Small Ions with Colloidal Nanoparticles. Chemistry of Materials, 2012, 24, 738-745.	3.2	60
42	Antibacterial properties of nanoparticles. Trends in Biotechnology, 2012, 30, 499-511.	4.9	2,113
43	A New Partially Deprotonated Mixed-Valence Manganese(II,III) Hydroxide-Arsenate with Electronic Conductivity: Magnetic Properties of High- and Room-Temperature Sarkinite. Inorganic Chemistry, 2012, 51, 5246-5256.	1.9	9
44	Novel $\text{Pr}_{0.6}\text{Sr}_{0.4}\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_3:\text{Ce}_{0.8}\text{Sm}_{0.2}\text{O}_2$ composite nanotubes for energy conversion and storage. Journal of Power Sources, 2012, 201, 332-339.	4.0	15
45	Effect of the Strontium Content on the Electrochemical Performance of the Perovskite-Type $\text{Pr}_{1-x}\text{Sr}_x\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_3$ Oxides. ECS Transactions, 2011, 35, 2183-2190.	0.3	2
46	A straightforward synthesis of carbon nanotube-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 SrLaMnTiO_6 perovskite thin films grown by pulsed laser deposition. Journal of Alloys and Compounds, 2011, 509, 1457-1462.	2.8	8
49	Recovery by hydrometallurgical extraction of the platinum-group metals from car catalytic converters. Minerals Engineering, 2011, 24, 505-513.	1.8	152
50	Pr-doped ceria nanoparticles as intermediate temperature ionic conductors. International Journal of Hydrogen Energy, 2011, 36, 10981-10990.	3.8	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.	4.0	12
52	Optimization of $\text{La}_{0.6}\text{Ca}_{0.4}\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_{3-\delta}:\text{Ce}_{0.8}\text{Sm}_{0.2}\text{O}_2$ composite cathodes for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2011, 196, 4332-4336.	4.0	14
53	$\text{La}_{0.6}\text{Sr}_{0.2}\text{Ca}_{0.2}\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_3$ thin films obtained by pulsed laser ablation: Effect of the substrate on the electrochemical behavior. Solid State Ionics, 2011, 192, 584-590.	1.3	7
54	Influence of colloidal templates on the impedance spectroscopic behaviour of $\text{Pr}_{0.7}\text{Sr}_{0.3}\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_3$ for solid oxide fuel cell applications. Solid State Ionics, 2011, 192, 235-240.	1.3	3

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55	Nanoparticles of $\text{La}_{0.8}\text{Ca}_{0.2}\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_{3-\delta}$ perovskite for solid oxide fuel cell application. <i>Materials Research Bulletin</i> , 2010, 45, 1513-1519.	2.7	27
56	Nanostructured $\text{Gd}_{0.8}\text{Sr}_{0.2}\text{Fe}_{0.8}\text{M}_{0.2}\text{O}_3$ (M=Cr, Ga) materials for solid oxide fuel cell cathodes. <i>Physics Procedia</i> , 2010, 8, 2-9.	1.2	5
57	LiFePO_4 thin films grown by pulsed laser deposition: Effect of the substrate on the film structure and morphology. <i>Applied Surface Science</i> , 2010, 256, 2563-2568.	3.1	23
58	Effect of Electrolyte Contribution on the Electrochemical Behaviour of $\text{Pr}_{0.8}\text{Sr}_{0.2}\text{Fe}_{0.8}\text{Ga}_{0.2}\text{O}_3$. <i>ECS Transactions</i> , 2009, 25, 2799-2806.	0.3	2
59	Synthesis and electrochemical performance of $\text{La}_{0.6}\text{Ca}_{0.4}\text{Fe}_{1-x}\text{Ni}_x\text{O}_3$ ($x=0.1, 0.2, 0.3$) material for solid oxide fuel cell cathode. <i>Journal of Power Sources</i> , 2009, 192, 63-69.	4.0	25
60	Development of electrolyte-supported intermediate-temperature single-chamber solid oxide fuel cells using $\text{Ln}_{0.7}\text{Sr}_{0.3}\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_{3-\delta}$ (Ln=Pr, La, Gd) cathodes. <i>Journal of Power Sources</i> , 2009, 193, 774-778.	4.0	20
61	(NH ₄): A new mixed valence vanadium(III,IV) fluoro-arsenate with ferromagnetic interactions and electronic conductivity. <i>Journal of Solid State Chemistry</i> , 2009, 182, 65-71.	1.4	7
62	Nanostructure and Impedance Spectroscopy of $\text{Pr}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{M}_x\text{O}_3$ (M = Fe, Co, Ni; x = 0 and 0.2) Thin Films Grown by Pulsed Laser Deposition. <i>Open Inorganic Chemistry Journal</i> , 2009, 3, 47-55.	0.3	1
63	Structure and impedance spectroscopy of $\text{Pr}_{1-x}\text{Sr}_x\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_{3-\delta}$ ($x=0.1, 0.2, 0.3$) thin films grown by laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 655-661.	1.1	3
64	Unusual magnetic properties in $\text{Pr}_{1-x}\text{Sr}_x\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_{3-\delta}$ ($x=0.3$). <i>Journal of Applied Physics</i> , 2008, 103, 033902.	1.1	6
65	Performance of $\text{Ln}_{0.7}\text{Sr}_{0.3}\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_{3-\delta}$ (Ln = Pr, La, Gd) Cathodes for Intermediate-Temperature SOFCs Synthesized by a Novel Gel-Combustion Route. <i>ECS Transactions</i> , 2007, 7, 1147-1155.	0.3	1
66	Synthesis and Performance of $\text{La}_{0.6}\text{Ca}_{0.4}\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_{3-\delta}$ Material for Intermediate-Temperature SOFC Cathode. <i>ECS Transactions</i> , 2007, 7, 1157-1164.	0.3	4
67	Structural and electrical properties of thin films of $\text{Pr}_{0.8}\text{Sr}_{0.2}\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_{3-\delta}$. <i>Journal of Power Sources</i> , 2007, 169, 35-39.	4.0	15
68	Structure and impedance spectroscopy of $\text{La}_{0.6}\text{Ca}_{0.4}\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_{3-\delta}$ thin films grown by pulsed laser deposition. <i>Journal of Power Sources</i> , 2007, 171, 747-753.	4.0	21
69	Designing Perovskite Oxides for Solid Oxide Fuel Cells. , 0, , .		2