

JesÃ³s Canales

List of Publications by Year in descending order

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115
papers

7,117
citations

87723

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56606

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123
all docs

123
docs citations

123
times ranked

8504
citing authors

#	ARTICLE	IF	CITATIONS
1	The carbon footprint balance of a real-case wine fermentation CO ₂ capture and utilization strategy. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112058.	8.2	10
2	Alterations in femoral neck strength following pelvic irradiation. A finite element analysis of simulated eccentric forces using bone density data derived from CT. <i>Bone</i> , 2021, 145, 115865.	1.4	0
3	Analysis of Performance Losses and Degradation Mechanism in Porous La ₂ X NiTiO ₆ YSZ Electrodes. <i>Materials</i> , 2021, 14, 2819.	1.3	3
4	Development of full ceramic electrodes for lithium-ion batteries via desktop-fused filament fabrication and further sintering. <i>Applied Materials Today</i> , 2021, 25, 101243.	2.3	9
5	Synergic Effect of Metal and Fluorine Doping on the Structural and Electrical Properties of La _{5.4} MoO _{11.1} -Based Materials. <i>Inorganic Chemistry</i> , 2020, 59, 1444-1452.	1.9	7
6	Dynamic adsorption separation of benzene/cyclohexane mixtures on micro-mesoporous silica SBA-2. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109942.	2.2	20
7	Highly graphitized carbon nanosheets with embedded Ni nanocrystals as anode for Li-ion batteries. <i>Nano Research</i> , 2020, 13, 86-94.	5.8	14
8	Application of Crosslinked Polybenzimidazole-Poly(Vinyl Benzyl Chloride) Anion Exchange Membranes in Direct Ethanol Fuel Cells. <i>Membranes</i> , 2020, 10, 349.	1.4	12
9	Design and Evaluation of a System for Decentralized Management of Solidarity Actions during the COVID-19 Crisis. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8064.	1.3	1
10	Unravelling Crystal Superstructures and Transformations in the La _{6-x} MoO ₁₂ (0.6 ≤ x ≤ 3.0) Series: A System with Tailored Ionic/Electronic Conductivity. <i>Chemistry of Materials</i> , 2020, 32, 7052-7062.	3.2	7
11	Understanding the Driving Mechanisms of Enhanced Luminescence Emission of Oligo(styryl)benzenes and Tri(styryl)triazine. <i>Chemistry - A European Journal</i> , 2020, 26, 3373-3384.	1.7	15
12	Relationship between the Structure and Transport Properties in the Ce _{1-x} La _x O ₂ System. <i>Inorganic Chemistry</i> , 2019, 58, 9368-9377.	1.9	17
13	Poly(Cyclohexene Phthalate) Nanoparticles for Controlled Dasatinib Delivery in Breast Cancer Therapy. <i>Nanomaterials</i> , 2019, 9, 1208.	1.9	24
14	Combined Theoretical and Experimental Study on Intramolecular Charge Transfer Processes in Star-Shaped Conjugated Molecules. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11179-11188.	1.5	7
15	Physical activation of graphene: An effective, simple and clean procedure for obtaining microporous graphene for high-performance Li/S batteries. <i>Nano Research</i> , 2019, 12, 759-766.	5.8	38
16	Trastuzumab-Targeted Biodegradable Nanoparticles for Enhanced Delivery of Dasatinib in HER2+ Metastatic Breast Cancer. <i>Nanomaterials</i> , 2019, 9, 1793.	1.9	40
17	Flexible, multifunctional nanoribbon arrays of palladium nanoparticles for transparent conduction and hydrogen detection. <i>Applied Surface Science</i> , 2019, 470, 212-218.	3.1	6
18	Assessment of doxorubicin delivery devices based on tailored bare polycaprolactone against glioblastoma. <i>International Journal of Pharmaceutics</i> , 2019, 558, 110-119.	2.6	19

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19	Radiomics of CT Features May Be Nonreproducible and Redundant: Influence of CT Acquisition Parameters. <i>Radiology</i> , 2018, 288, 407-415.	3.6	428
20	Fabrication and characterisation of ceramics via low-cost DLP 3D printing. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2018, 57, 9-18.	0.9	94
21	Metal-Doping of La _{5.4} MoO _{11.1} Proton Conductors: Impact on the Structure and Electrical Properties. <i>Inorganic Chemistry</i> , 2018, 57, 12811-12819.	1.9	10
22	The Carbon Dioxide-Rumen Fermentation Processes-strategy, a proposal to sustain environmentally friendly dairy farms. <i>Journal of Cleaner Production</i> , 2018, 204, 735-743.	4.6	3
23	PO-0989: Identification of reproducible and non redundant intra and inter CT scanner Radiomics features. <i>Radiotherapy and Oncology</i> , 2018, 127, S549-S550.	0.3	0
24	pH-Controlled Self-Assembly of X-Shaped Conjugated Molecules: The Case of 1,2,4,5-Tetrastrylbenzene. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19937-19945.	1.5	6
25	Three dimensional printing of components and functional devices for energy and environmental applications. <i>Energy and Environmental Science</i> , 2017, 10, 846-859.	15.6	228
26	Effect of the Aggregation on the Photophysical Properties of a Blue-Emitting Star-Shaped Molecule Based on 1,3,5-Tristyrylbenzene. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4720-4733.	1.5	21
27	Effect of Preparation Conditions on the Polymorphism and Transport Properties of La ₆ MoO ₁₂ (0 ≤ x ≤ 0.8). <i>Chemistry of Materials</i> , 2017, 29, 6966-6975.	3.2	35
28	Virtual Design in Organic Electronics: Screening of a Large Set of 1,4-Bis(phenylethynyl)benzene Derivatives as Molecular Semiconductors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28249-28261.	1.5	13
29	Exchange Bias Optimization by Controlled Oxidation of Cobalt Nanoparticle Films Prepared by Sputter Gas Aggregation. <i>Nanomaterials</i> , 2017, 7, 61.	1.9	12
30	Ceramic-Based 3D Printed Supports for Photocatalytic Treatment of Wastewater. <i>Journal of Chemistry</i> , 2017, 2017, 1-9.	0.9	14
31	Decreasing the polarisation resistance of a Ni-YSZ solid oxide fuel cell anode by infiltration of a ceria-based solution. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19731-19736.	3.8	23
32	Optoelectronic and Semiconducting Properties of Conjugated Polymers Composed of Thiazolo[5,4-d]thiazole and Arene Imides Linked by Ethynylene Bridges. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24583-24596.	1.5	22
33	pH-Sensitive Fluorescence Lifetime Molecular Probes Based on Functionalized Tristyrylbenzene. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18771-18779.	1.5	17
34	Engineering Mixed Ionic Electronic Conduction in La _{0.8} Sr _{0.2} MnO _{3+δ} Nanostructures through Fast Grain Boundary Oxygen Diffusivity. <i>Advanced Energy Materials</i> , 2015, 5, 1500377.	10.2	75
35	Grain Boundary Engineering to Improve Ionic Conduction in Thin Films for Micro-SOFCs. <i>ECS Transactions</i> , 2015, 69, 11-16.	0.3	2
36	High temperature properties of rare-earth tungstates RE ₂ W ₂ O ₉ . <i>Journal of Alloys and Compounds</i> , 2015, 622, 557-564.	2.8	9

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37	Characterization of $\text{La}_{2-x}\text{Sr}_x\text{CoTiO}_6$ ($0.6 \leq x \leq 1.0$) series as new cathodes of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 5440-5450.	3.8	9
38	Influence of the microstructure on the bulk and grain boundary conductivity in apatite-type electrolytes. <i>Journal of Power Sources</i> , 2014, 245, 107-118.	4.0	32
39	High-vacuum annealing reduction of Co/CoO nanoparticles. <i>Nanotechnology</i> , 2014, 25, 105702.	1.3	20
40	Stability and performance of nanostructured $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ cathodes deposited by spray-pyrolysis. <i>Electrochimica Acta</i> , 2014, 134, 159-166.	2.6	22
41	$\text{Î}^2\text{-NaMnO}_2$: A High-Performance Cathode for Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2014, 136, 17243-17248.	6.6	333
42	Ordered mesoporous carbons obtained by a simple soft template method as sulfur immobilizers for lithium-sulfur cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17332-17340.	1.3	35
43	Prospective use of the 3D printing technology for the microstructural engineering of Solid Oxide Fuel Cell components. <i>Boletín De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2014, 53, 213-216.	0.9	22
44	The role of the $\text{Co}^{2+}/\text{Co}^{3+}$ redox-pair in the properties of $\text{La}_{2-x}\text{Sr}_x\text{CoTiO}_6$ ($0 \leq x \leq 0.5$) perovskites as components for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2013, 227, 309-317.	4.0	15
45	Electrochemical properties of ultrasonically prepared $\text{Ni}(\text{OH})_2$ nanosheets in lithium cells. <i>Journal of Power Sources</i> , 2013, 238, 366-371.	4.0	21
46	Enhanced electropromotion of methane combustion on palladium catalysts deposited on highly porous supports. <i>Applied Catalysis B: Environmental</i> , 2013, 132-133, 80-89.	10.8	19
47	Structural and Conducting Features of Niobium-Doped Lanthanum Tungstate, $\text{La}_{27}(\text{W}_{1-x}\text{Nb}_x)_5\text{O}_{55.55\text{Î}}$. <i>Chemistry of Materials</i> , 2013, 25, 448-456.	3.2	41
48	A- and B-Site Ordering in the A-Cation-Deficient Perovskite Series $\text{La}_{28-x}\text{NiTiO}_{6\text{Î}}$ ($0 \leq x \leq 0.20$) and Evaluation as Potential Cathodes for Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2013, 25, 2484-2494.	3.2	41
49	Influence of the precursor pyrolysis temperature on the microstructure and conductivity of Gd-doped ceria materials. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1825-1832.	2.8	3
50	Characterization of Mesoporous Zirconium and Cerium Oxides by Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2012, 18, 81-82.	0.2	1
51	Complete structural model for lanthanum tungstate: a chemically stable high temperature proton conductor by means of intrinsic defects. <i>Journal of Materials Chemistry</i> , 2012, 22, 1762-1764.	6.7	91
52	Mo-Substituted Lanthanum Tungstate $\text{La}_{28-y}\text{W}_{4+y}\text{O}_{54+\text{Î}}$: A Competitive Mixed Electron-Proton Conductor for Gas Separation Membrane Applications. <i>Chemistry of Materials</i> , 2012, 24, 3868-3877.	3.2	96
53	Energy barrier enhancement by weak magnetic interactions in Co/Nb granular films assembled by inert gas condensation. <i>Physical Review B</i> , 2012, 85, .	1.1	15
54	Structural and electrochemical characterization of $\text{La}_{2-x}\text{Sr}_x\text{NiTiO}_{6\text{Î}}$. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7242-7251.	3.8	14

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55	Symmetric and reversible solid oxide fuel cells. RSC Advances, 2011, 1, 1403.	1.7	225
56	A Novel Approach to Engineer the Microstructure of Solid Oxide Fuel Cell materials. Fuel Cells, 2011, 11, 144-149.	1.5	7
57	Mechanical Characterisation at Nanometric Scale of a New Design of SOFCs. Fuel Cells, 2011, 11, 124-130.	1.5	14
58	Engineering of materials for solid oxide fuel cells and other energy and environmental applications. Energy and Environmental Science, 2010, 3, 1670.	15.6	65
59	The grain boundary effect on dysprosium doped ceria. Solid State Ionics, 2010, 181, 1665-1673.	1.3	51
60	Performance of a novel type of electrolyte-supported solid oxide fuel cell with honeycomb structure. Journal of Power Sources, 2010, 195, 516-521.	4.0	25
61	Fabrication of 3D carbon microstructures using glassy carbon microspheres and organic precursors. Carbon, 2010, 48, 3964-3967.	5.4	18
62	Disruption of extended defects in solid oxide fuel cell anodes for methane oxidation. , 2010, , 251-254.		0
63	Novel Procedures for the Microstructural Design of SOFC Materials. ECS Transactions, 2009, 25, 567-576.	0.3	1
64	Cost-effective Microstructural Engineering of Solid Oxide Fuel Cell Components for Planar and Tubular Designs. Journal of the American Ceramic Society, 2009, 92, 276-279.	1.9	14
65	On Ba _{0.5} Sr _{0.5} Co _{1-γ} FeyO _{3-γ} ($\gamma=0.1\text{--}0.9$) oxides as cathode materials for La _{0.9} Sr _{0.1} Ga _{0.8} Mg _{0.2} O _{2.85} based IT-SOFCs. International Journal of Hydrogen Energy, 2009, 34, 9486-9495.	3.8	57
66	Structure, Conductivity, and Thermal Expansion Studies of Redox Stable Rutile Niobium Chromium Titanates in Oxidizing and Reducing Conditions. Chemistry of Materials, 2009, 21, 3549-3561.	3.2	26
67	The synthesis and lithium intercalation electrochemistry of VO ₂ (B) ultra-thin nanowires. Journal of Power Sources, 2008, 178, 723-728.	4.0	100
68	Preparation of thin layer materials with macroporous microstructure for SOFC applications. Journal of Solid State Chemistry, 2008, 181, 685-692.	1.4	46
69	An all-in-one fluorite-based symmetrical solid oxide fuel cell. Journal of Power Sources, 2008, 177, 154-160.	4.0	31
70	A systematic study of the formation of mesostructured silica using surfactant ruthenium complexes in high- and low-concentration regimes. Journal of Materials Chemistry, 2008, 18, 5282.	6.7	36
71	Is YSZ stable in the presence of Cu?. Journal of Materials Chemistry, 2008, 18, 5072.	6.7	23
72	Potenciales materiales de electrodo para Pilas de Combustible de Óxido Sólido simétricas. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2008, 47, 183-188.	0.9	20

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73	MecanosÃntesis de polvos nanocristalinos de $\text{CaTi}_{1-x}\text{Mn}_x\text{O}_{3-\delta}$. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2008, 47, 233-237.	0.9	6
74	Electrodos basados en Perovskita para pilas de combustible SOFC simÃtricas. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2008, 47, 267-272.	0.9	2
75	Characterizing Nickel Battery Materials: Crystal Structure of NiOOH . , 2008, , .		1
76	Materials for Symmetrical Solid Oxide Fuel Cells. ECS Transactions, 2007, 7, 905-912.	0.3	14
77	Deciphering the Structural Transformations during Nickel Oxyhydroxide Electrode Operation. Journal of the American Chemical Society, 2007, 129, 5840-5842.	6.6	72
78	A new anode for solid oxide fuel cells with enhanced OCV under methane operation. Physical Chemistry Chemical Physics, 2007, 9, 1821-1830.	1.3	38
79	Synthesis and transport properties in $\text{La}_{2-x}\text{A}_x\text{Mo}_2\text{O}_9$ (A=Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , K ⁺) series. Electrochimica Acta, 2007, 52, 5219-5231.	2.6	75
80	Improvement of the electrochemical properties of novel solid oxide fuel cell anodes, $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_{3-\delta}$ and $\text{La}_4\text{Sr}_8\text{Ti}_{11}\text{Mn}_{0.5}\text{Ga}_{0.5}\text{O}_{37.5-\delta}$, using Cu-YSZ-based cermets. Electrochimica Acta, 2007, 52, 7217-7225.	2.6	51
81	Fe-substituted $(\text{La,Sr})\text{TiO}_3$ as potential electrodes for symmetrical fuel cells (SFCs). Journal of Power Sources, 2007, 171, 552-557.	4.0	102
82	Microstructural characterisation of battery materials using powder diffraction data: DIFFaX, FAULTS and SH-FullProf approaches. Journal of Power Sources, 2007, 174, 414-420.	4.0	43
83	LSCM-YSZ-CGO composites as improved symmetrical electrodes for solid oxide fuel cells. Journal of the European Ceramic Society, 2007, 27, 4223-4227.	2.8	79
84	Cromitas de Lantano como potencial electrodos simÃtricos para Pilas de Combustible de Ãxido SÃlido. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2007, 46, 218-224.	0.9	36
85	$(\text{La,Sr})\text{TiO}_{3+\delta}$ en lugar de $(\text{La,Sr})\text{TiO}_{3-d}$. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2007, 46, 304-310.	0.9	2
86	New insights on the microstructural characterisation of nickel hydroxides and correlation with electrochemical properties. Journal of Materials Chemistry, 2006, 16, 2925-2939.	6.7	31
87	Microstructural optimisation of materials for SOFC applications using PMMA microspheres. Journal of Materials Chemistry, 2006, 16, 540.	6.7	59
88	$\text{TiO}_2(\text{B})$ Nanotubes as Negative Electrodes for Rechargeable Lithium Batteries. Electrochemical and Solid-State Letters, 2006, 9, A139.	2.2	189
89	On the Electrical Properties of Synthetic Manganocolumbite MnNb_2O_6 . Chemistry of Materials, 2006, 18, 3827-3834.	3.2	22
90	Disruption of extended defects in solid oxide fuel cell anodes for methane oxidation. Nature, 2006, 439, 568-571.	13.7	379

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91	On the simultaneous use of $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_{3-\delta}$ as both anode and cathode material with improved microstructure in solid oxide fuel cells. <i>Electrochimica Acta</i> , 2006, 52, 278-284.	2.6	227
92	Structural studies on W^{6+} and Nd^{3+} substituted $\text{La}_2\text{Mo}_2\text{O}_9$ materials. <i>Journal of Solid State Chemistry</i> , 2006, 179, 278-288.	1.4	73
93	$\text{Ag}_2\text{CuMnO}_4$: A new silver copper oxide with delafossite structure. <i>Journal of Solid State Chemistry</i> , 2006, 179, 3883-3892.	1.4	29
94	Mn-substituted titanates as efficient anodes for direct methane SOFCs. <i>Solid State Ionics</i> , 2006, 177, 1997-2003.	1.3	56
95	New Strategies on SOFC. <i>Materials Research Society Symposia Proceedings</i> , 2006, 972, 1.	0.1	0
96	$\text{TiO}_2\text{-B}$ nanowires as negative electrodes for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2005, 146, 501-506.	4.0	226
97	Electrical conductivity and redox stability of $\text{La}_2\text{Mo}_2\text{-xW}_x\text{O}_9$ materials. <i>Electrochimica Acta</i> , 2005, 50, 4385-4395.	2.6	102
98	Application of an alternative representation to identify models to fit impedance spectra. <i>Solid State Ionics</i> , 2005, 176, 2011-2022.	1.3	4
99	Studies on the Reorganization of Extended Defects with Increasing n in the Perovskite-Based $\text{La}_4\text{Sr}_{n-4}\text{Ti}_n\text{O}_{3n+2}$ Series. <i>Advanced Functional Materials</i> , 2005, 15, 1000-1008.	7.8	59
100	Lithium-Ion Intercalation into $\text{TiO}_2\text{-B}$ Nanowires. <i>Advanced Materials</i> , 2005, 17, 862-865.	11.1	793
101	Synthesis, sinterability and ionic conductivity of nanocrystalline LaMoO powders. <i>Solid State Ionics</i> , 2005, 176, 1807-1816.	1.3	55
102	Sc-Substituted Oxygen Excess Titanates as Fuel Electrodes for SOFCs. <i>Journal of the Electrochemical Society</i> , 2005, 152, A1458.	1.3	36
103	Investigation of proton conducting $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_{2.95}$: $\text{BaCe}_{0.9}\text{Y}_{0.1}\text{O}_{2.95}$ core-shell structures. <i>Journal of Materials Chemistry</i> , 2005, 15, 598-604.	6.7	66
104	Nanotubes with the $\text{TiO}_2\text{-B}$ structure. <i>Chemical Communications</i> , 2005, , 2454.	2.2	290
105	Synthesis and characterization of $n=5, 6$ members of the $\text{La}_4\text{Sr}_{n-4}\text{Ti}_n\text{O}_{3n+2}$ series with layered structure based upon perovskite. <i>Journal of Solid State Chemistry</i> , 2004, 177, 2039-2043.	1.4	11
106	$\text{TiO}_2\text{-B}$ Nanowires. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2286-2288.	7.2	709
107	WO_2Cl_2 Nanotubes and Nanowires. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4899-4902.	7.2	23
108	WO_2Cl_2 Nanotubes and Nanowires.. <i>ChemInform</i> , 2004, 35, no.	0.1	0

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109	Microdomain texture and microstructures of Fe ⁴⁺ -containing CaTi _{0.4} Fe _{0.6} O ₃ . Journal of Solid State Chemistry, 2004, 177, 3105-3113.	1.4	12
110	Structural and Electrical Properties of the Perovskite Oxide Sr ₂ FeNbO ₆ . Chemistry of Materials, 2004, 16, 2309-2316.	3.2	63
111	Electrical properties in La ₂ Sr ₄ Ti ₆ O ₁₉ δ ; a potential anode for high temperature fuel cells. Solid State Ionics, 2003, 159, 159-165.	1.3	127
112	Studies on the perovskite-based La ₄ Sr _n ⁴ Ti _n O _{3n+2} . Materials Research Society Symposia Proceedings, 2003, 801, 204.	0.1	1
113	Characterisation of novel anodes for solid oxide fuel cells based on oxygen-excess perovskite related structures. Ionics, 2002, 8, 252-255.	1.2	6
114	Structural studies of the distorted perovskite proton conductors Sr ₃ Ca _{1+x} Nb ₂ O ₉ . Solid State Ionics, 2002, 152-153, 749-757.	1.3	15
115	Structural and Electrical Properties of the Perovskite Oxide Sr ₂ FeNbO ₆ . , 0, , .		2