Nataly C Rosero-Navarro

List of Publications by Year
in descending order

82 papers	2,587 citations	136950 32 h-index	197818 49 g-index
83 all docs	83 docs citations	83 times ranked	2743 citing authors

#	Article	IF	Citations
1	Two-step liquid-phase synthesis of argyrodite Li6PS5Cl solid electrolyte using nonionic surfactant. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2023, 62, 187-193.	1.9	3
2	Argyrodite solid electrolyte-coated graphite as anode material for all-solid-state batteries. Journal of Sol-Gel Science and Technology, 2022, 101, 8-15.	2.4	4
3	Liquid-phase Synthesis of Sulfide Electrolytes and Synthesis Mechanism. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2022, 69, 95-98.	0.2	0
4	Preparation of transparent and mechanically hard inorganic-organic hybrid thick films from 3-glycidoxypropyltrimethoxysilane and zirconium propoxide. Journal of Sol-Gel Science and Technology, 2022, 104, 478-483.	2.4	4
5	Impact of Sulfur Infiltration Time and Its Content in an N-doped Mesoporous Carbon for Application in Li-S Batteries. Batteries, 2022, 8, 58.	4.5	9
6	Application of sol-gel processes to materials and interfaces in oxide-based all-solid-state batteries. Journal of Sol-Gel Science and Technology, 2022, 103, 680-689.	2.4	0
7	Synthesis of sulfide solid electrolytes from Li₂S and P₂S₅ in anisole. Journal of Materials Chemistry A, 2021, 9, 400-405.	10.3	22
8	Wet Chemical Processes for the Preparation of Composite Electrodes in All-Solid-State Lithium Battery. , 2021, , 85-92.		1
9	Kinetic Control of the Li_{0.9}Mn_{1.6}Ni_{0.4}O₄ Spinel Structure with Enhanced Electrochemical Performance. ACS Applied Materials & Interfaces, 2021, 13, 14056-14067.	8.0	4
10	Chemical stability of Li4PS4I solid electrolyte against hydrolysis. Applied Materials Today, 2021, 22, 100918.	4.3	32
11	Fast dischargeâ€“charge properties of FePS3 electrode for all-solid-state batteries using sulfide electrolytes and its stable diffusion path. Functional Materials Letters, 2021, 14, 2141005.	1.2	2
12	Formation Mechanism of Î²-Li₃PS₄ through Decomposition of Complexes. Inorganic Chemistry, 2021, 60, 6964-6970.	4.0	19
13	Observing and Modeling the Sequential Pairwise Reactions that Drive Solidâ€State Ceramic Synthesis. Advanced Materials, 2021, 33, e2100312.	21.0	51
14	Phase transition, magnetic, and electronic properties of CeOInS₂. Journal of the Ceramic Society of Japan, 2021, 129, 249-253.	1.1	1
15	Kinetically Stabilized Cation Arrangement in Li₃YCl₆ Superionic Conductor during Solidâ€State Reaction. Advanced Science, 2021, 8, e2101413.	11.2	24
16	Combustion Reactions between Transition-Metal Chlorides and Sodium Amide and Their Ignition Temperature. Inorganic Chemistry, 2021, 60, 12753-12758.	4.0	4
17	Synthesis of highly Li-ion conductive garnet-type solid ceramic electrolytes by solution-process-derived sintering additives. Journal of the European Ceramic Society, 2021, 41, 6767-6771.	5.7	10
18	Graphite/Li7P3S11 composite prepared by â€œseedâ€•process for all-solid-state batteries. Solid State Ionics, 2021, 372, 115789.	2.7	4

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19	Preparation of Composite Electrodes for All-Solid-State Batteries Based on Sulfide Electrolytes: An Electrochemical Point of View. Batteries, 2021, 7, 77.	4.5	8
20	Li2s-P2S5 Solutions for Forming Solid Electrolyte Coating Layers on Electrode Materials for All-Solid-State Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 136-136.	0.0	0
21	Electrical properties of pyrochlore-type silver tantalate and fluorite-type silver niobate. Journal of the Ceramic Society of Japan, 2020, 128, 46-50.	1.1	3
22	Feâ€“Pâ€“S electrodes for all-solid-state lithium secondary batteries using sulfide-based solid electrolytes. Journal of Power Sources, 2020, 449, 227576.	7.8	11
23	Organicâ€“Inorganic Hybrid Materials for Interface Design in All-Solid-State Batteries with a Garnet-Type Solid Electrolyte. ACS Applied Energy Materials, 2020, 3, 11260-11268.	5.1	18
24	Formation Mechanism of Thiophosphate Anions in the Liquid-Phase Synthesis of Sulfide Solid Electrolytes Using Polar Aprotic Solvents. Chemistry of Materials, 2020, 32, 9627-9632.	6.7	20
25	Significant Reduction in the Interfacial Resistance of Garnet-Type Solid Electrolyte and Lithium Metal by a Thick Amorphous Lithium Silicate Layer. ACS Applied Energy Materials, 2020, 3, 5533-5541.	5.1	25
26	Selective metathesis synthesis of MgCr₂S₄ by control of thermodynamic driving forces. Materials Horizons, 2020, 7, 1310-1316.	12.2	27
27	Synthesis and ionic conductivity of a high-entropy layered hydroxide. Journal of the Ceramic Society of Japan, 2020, 128, 336-339.	1.1	13
28	Microwave Fusion of the Composite LiMn1.6Ni0.4O4-LiFePO4 /C to Improve the Stability of Spinel Phase. ECS Meeting Abstracts, 2020, MA2020-01, 398-398.	0.0	0
29	Preparation of lithium ion conductive Li6PS5Cl solid electrolyte from solution for the fabrication of composite cathode of all-solid-state lithium battery. Journal of Sol-Gel Science and Technology, 2019, 89, 303-309.	2.4	46
30	Two-Dimensional Hybrid Halide Perovskite as Electrode Materials for All-Solid-State Lithium Secondary Batteries Based on Sulfide Solid Electrolytes. ACS Applied Energy Materials, 2019, 2, 6569-6576.	5.1	17
31	Catalytic Activity for Oxygen Reduction Reaction of Ni-Mn-Fe Layered Double Hydroxide-Carbon Gel Composite. Chemistry Letters, 2019, 48, 696-699.	1.3	4
32	Mg-Al layered double hydroxide as an electrolyte membrane for aqueous ammonia fuel cell. Materials Research Bulletin, 2019, 119, 110561.	5.2	11
33	An electronic structure governed by the displacement of the indium site in Inâ€“S₆ octahedra: LnOInS₂ (Ln = La, Ce, and Pr). Dalton Transactions, 2019, 48, 12272-12278.	3.3	8
34	Porous ZnV₂O₄ Nanowire for Stable and High-Rate Lithium-Ion Battery Anodes. ACS Applied Nano Materials, 2019, 2, 4247-4256.	5.0	41
35	Self-Combustion Synthesis of Novel Metastable Ternary Molybdenum Nitrides. , 2019, 1, 64-70.		20
36	Composition, valence and oxygen reduction reaction activity of Mn-based layered double hydroxides. Journal of Asian Ceramic Societies, 2019, 7, 147-153.	2.3	10

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37	Liquid-phase syntheses of sulfide electrolytes for all-solid-state lithium battery. Nature Reviews Chemistry, 2019, 3, 189-198.	30.2	238
38	Enhanced hydroxide ion conductivity of Mgâ€“Al layered double hydroxide at low humidity by intercalating dodecyl sulfate anion. Journal of the Ceramic Society of Japan, 2019, 127, 788-792.	1.1	7
39	Electrochemical performance of bulk-type all-solid-state batteries using small-sized Li7P3S11 solid electrolyte prepared by liquid phase as the ionic conductor in the composite cathode. Electrochimica Acta, 2019, 296, 473-480.	5.2	40
40	Crystal Structure and Superconductivity of Tetragonal and Monoclinic Ce_{1â€“x}Pr_xOBiS₂. Inorganic Chemistry, 2018, 57, 5364-5370.	4.0	14
41	Preparation of sulfide solid electrolytes in the Li₂Sâ€“P₂S₅ system by a liquid phase process. Inorganic Chemistry Frontiers, 2018, 5, 501-508.	6.0	53
42	Synthesis, crystal structure and optical absorption of NaInS2-Se. Journal of Alloys and Compounds, 2018, 750, 409-413.	5.5	8
43	Structural and Electrochemical Evaluation of Three- and Two-Dimensional Organohalide Perovskites and Their Influence on the Reversibility of Lithium Intercalation. Inorganic Chemistry, 2018, 57, 4181-4188.	4.0	51
44	Liquid-phase synthesis of Li6PS5Br using ultrasonication and application to cathode composite electrodes in all-solid-state batteries. Ceramics International, 2018, 44, 742-746.	4.8	75
45	Explosive Reaction for Barium Niobium Perovskite Oxynitride. Inorganic Chemistry, 2018, 57, 24-27.	4.0	16
46	Electrochemical performance of a garnet solid electrolyte based lithium metal battery with interface modification. Journal of Materials Chemistry A, 2018, 6, 21018-21028.	10.3	71
47	Reaction Mechanism of FePS₃ Electrodes in All-Solid-State Lithium Secondary Batteries Using Sulfide-Based Solid Electrolytes. Journal of the Electrochemical Society, 2018, 165, A2948-A2954.	2.9	10
48	Synthesis of submicron-sized NiPS₃ particles and electrochemical properties as active materials in all-solid-state lithium batteries. Journal of the Ceramic Society of Japan, 2018, 126, 568-572.	1.1	8
49	Sol-Gel Processing of Solid Electrolytes for Li-Ion Batteries. , 2018, , 2631-2648.		2
50	Composite cathode prepared by argyrodite precursor solution assisted by dispersant agents for bulk-type all-solid-state batteries. Journal of Power Sources, 2018, 396, 33-40.	7.8	59
51	Protonic conductivity and fuel cell tests of nanocomposite membranes based on bacterial cellulose. Electrochimica Acta, 2017, 233, 52-61.	5.2	49
52	FePS3 electrodes in all-solid-state lithium secondary batteries using sulfide-based solid electrolytes. Electrochimica Acta, 2017, 241, 370-374.	5.2	37
53	Effect of the binder content on the electrochemical performance of composite cathode using Li6PS5Cl precursor solution in an all-solid-state lithium battery. Ionics, 2017, 23, 1619-1624.	2.4	52
54	Instantaneous preparation of high lithium-ion conducting sulfide solid electrolyte Li₇P₃S₁₁ by a liquid phase process. RSC Advances, 2017, 7, 46499-46504.	3.6	79

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55	Synthesis of LaO_{0.5}F_{0.5}BiS₂ nanosheets by ultrasonification. Journal of Asian Ceramic Societies, 2017, 5, 183-185.	2.3	2
56	Effect of Sintering Additives on Relative Density and Liâ€ion Conductivity of Nbâ€Doped Li₇La₃ZrO₁₂ Solid Electrolyte. Journal of the American Ceramic Society, 2017, 100, 276-285.	3.8	76
57	Optimization of Al2O3 and Li3BO3 Content as Sintering Additives of Li7â^'x La2.95Ca0.05ZrTaO12 at Low Temperature. Journal of Electronic Materials, 2017, 46, 497-501.	2.2	34
58	Active corrosion inhibition of mild steel by environmentally-friendly Ce-doped organicâ€“inorganic solâ€“gel coatings. RSC Advances, 2016, 6, 39577-39586.	3.6	49
59	Nitrogenâ€Rich Manganese Oxynitrides with Enhanced Catalytic Activity in the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2016, 55, 7963-7967.	13.8	52
60	Preparation of Li7La3(Zr2â^',Nb)O12 (x= 0â€“1.5) and Li3BO3/LiBO2 composites at low temperatures using a solâ€“gel process. Solid State Ionics, 2016, 285, 6-12.	2.7	65
61	Protonic Conductivity of Nanocrystalline Zeolitic Imidazolate Framework 8. Electrochimica Acta, 2015, 153, 19-27.	5.2	44
62	Protonic conductivity and viscoelastic behaviour of NafionÂ® membranes with periodic mesoporous organosilica fillers. International Journal of Hydrogen Energy, 2014, 39, 5338-5349.	7.1	20
63	Meso-structured organosilicas as fillers for NafionÂ® membranes. Solid State Ionics, 2014, 262, 324-327.	2.7	10
64	Nanostructured Bacterial Celluloseâ€“Poly(4-styrene sulfonic acid) Composite Membranes with High Storage Modulus and Protonic Conductivity. ACS Applied Materials & Interfaces, 2014, 6, 7864-7875.	8.0	81
65	Study of the effect of cerium nitrate on AA2024-T3 by means of electrochemical micro-cell technique. Electrochimica Acta, 2012, 70, 25-33.	5.2	64
66	ZrO2 solâ€“gel pre-treatments doped with cerium nitrate for the corrosion protection of AA6060. Progress in Organic Coatings, 2012, 74, 311-319.	3.9	32
67	Multiscale numerical modeling of Ce³⁺-inhibitor release from novel corrosion protection coatings. Modelling and Simulation in Materials Science and Engineering, 2011, 19, 025009.	2.0	7
68	Glass-like CexOy solâ€“gel coatings for corrosion protection of aluminium and magnesium alloys. Surface and Coatings Technology, 2011, 206, 257-264.	4.8	31
69	Development and industrial scale-up of ZrO2 coatings and hybrid organicâ€“inorganic coatings used as pre-treatments before painting aluminium alloys. Progress in Organic Coatings, 2011, 72, 3-14.	3.9	41
70	Influence of cerium concentration on the structure and properties of silica-methacrylate solâ€“gel coatings. Journal of Sol-Gel Science and Technology, 2010, 54, 301-311.	2.4	36
71	Optimization of hybrid solâ€“gel coatings by combination of layers with complementary properties for corrosion protection of AA2024. Progress in Organic Coatings, 2010, 69, 167-174.	3.9	60
72	Inhibition effect of cerium in hybrid solâ€“gel films on aluminium alloy AA2024. Surface and Interface Analysis, 2010, 42, 299-305.	1.8	48

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73	Electrochemical techniques for practical evaluation of corrosion inhibitor effectiveness. Performance of cerium nitrate as corrosion inhibitor for AA2024T3 alloy. Corrosion Science, 2010, 52, 3356-3366.	6.6	70
74	Improved corrosion resistance of AA2024 alloys through hybrid organicâ€“inorganic solâ€“gel coatings produced from sols with controlled polymerisation. Surface and Coatings Technology, 2009, 203, 1897-1903.	4.8	64
75	Corrosion protection of aluminium alloy AA2024 with cerium doped methacrylate-silica coatings. Journal of Sol-Gel Science and Technology, 2009, 52, 31-40.	2.4	36
76	SiO2 based hybrid inorganicâ€“organic films doped with TiO2â€“CeO2 nanoparticles for corrosion protection of AA2024 and Mg-AZ31B alloys. Corrosion Science, 2009, 51, 1998-2005.	6.6	77
77	Multilayer silica-methacrylate hybrid coatings prepared by solâ€“gel on stainless steel 316L: Electrochemical evaluation. Surface and Coatings Technology, 2008, 202, 2194-2201.	4.8	59
78	Electrochemical evaluation of multilayer silicaâ€“metacrylate hybrid solâ€“gel coatings containing bioactive particles on surgical grade stainless steel. Surface and Coatings Technology, 2008, 203, 80-86.	4.8	26
79	Effects of Ce-containing solâ€“gel coatings reinforced with SiO2 nanoparticles on the protection of AA2024. Corrosion Science, 2008, 50, 1283-1291.	6.6	156
80	Ti₄O₇ Used as Electrode in Biomedicine and for Electrochemical Study of Scavenging Mechanism. Key Engineering Materials, 0, 493-494, 896-901.	0.4	0
81	Preparation of Cu3N thin films by nitridation of solution process-derived thin films using urea. Journal of Sol-Gel Science and Technology, 0, , 1.	2.4	0
82	Sulfide-Based Solid-State Electrolytes. ACS Symposium Series, 0, , 319-351.	0.5	0