Juan Miguel Lopez del Amo

List of Publications by Year
in descending order

65 papers	4,252 citations	136885 32 h-index	110317 64 g-index
68 all docs	68 docs citations	68 times ranked	5625 citing authors

#	Article	IF	Citations
1	Ion transport from water-in-salt electrolyte through porosity of hierarchical porous carbons unraveled by solid-state NMR. Electrochimica Acta, 2022, 404, 139716.	2.6	4
2	Enhancing the polymer electrolyteâ€“Li metal interface on high-voltage solid-state batteries with Li-based additives inspired by the surface chemistry of Li₇La₃Zr₂O₁₂. Journal of Materials Chemistry A, 2022, 10, 2352-2361.	5.2	10
3	Unveiling the Impact of the Cations and Anions in Ionic Liquid/Glyme Hybrid Electrolytes for Naâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2022, 14, 4022-4034.	4.0	9
4	Enhancing the Performance of Ceramic-Rich Polymer Composite Electrolytes Using Polymer Grafted LLZO. Inorganics, 2022, 10, 81.	1.2	4
5	Influence of Transition-Metal Order on the Reaction Mechanism of LNMO Cathode Spinel: An Operando X-ray Absorption Spectroscopy Study. Chemistry of Materials, 2022, 34, 6529-6540.	3.2	12
6	Sodium manganese-rich layered oxides: Potential candidates as positive electrode for Sodium-ion batteries. Energy Storage Materials, 2021, 34, 682-707.	9.5	35
7	High performance LATP thin film electrolytes for all-solid-state microbattery applications. Journal of Materials Chemistry A, 2021, 9, 17760-17769.	5.2	23
8	Structural Aspects of P2â€Type Na_{0.67}Mn_{0.6}Ni_{0.2}Li_{0.2}O₂ (MNL) Stabilization by Lithium Defects as a Cathode Material for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2102939.	7.8	35
9	Characterization of the interfacial Li-ion exchange process in a ceramicâ€“polymer composite by solid state NMR. Journal of Materials Chemistry A, 2021, 9, 17812-17820.	5.2	21
10	Crystalline LiPON as a Bulk-Type Solid Electrolyte. ACS Energy Letters, 2021, 6, 445-450.	8.8	43
11	Functionalized cellulose as quasi single-ion conductors in polymer electrolyte for all-solidâ€“state Li/Na and Li S batteries. Solid State Ionics, 2020, 345, 115168.	1.3	34
12	Understanding enhanced charge storage of phosphorus-functionalized graphene in aqueous acidic electrolytes. Electrochimica Acta, 2020, 361, 136985.	2.6	22
13	A Coâ€•and Niâ€Free P2/O3 Biphasic Lithium Stabilized Layered Oxide for Sodiumâ€Ion Batteries and its Cycling Behavior. Advanced Functional Materials, 2020, 30, 2003364.	7.8	80
14	Highly Homogeneous Sodium Superoxide Growth in Naâ€“O₂ Batteries Enabled by a Hybrid Electrolyte. ACS Energy Letters, 2020, 5, 903-909.	8.8	16
15	Structural evolution and electrochemistry of the Mn-Rich P2â€“ Na2/3Mn0.9Ti0.05Fe0.05O2 positive electrode material. Electrochimica Acta, 2020, 341, 135978.	2.6	13
16	Controlling the Threeâ€Phase Boundary in Naâ€“Oxygen Batteries: The Synergy of Carbon Nanofibers and Ionic Liquid. ChemSusChem, 2019, 12, 4054-4063.	3.6	12
17	High performance P2 sodium layered oxides: an in-depth study into the effect of rationally selected stoichiometry. Journal of Materials Chemistry A, 2019, 7, 21812-21826.	5.2	11
18	Garnetâ€“Polymer Composite Electrolytes: New Insights on Local Li-Ion Dynamics and Electrodeposition Stability with Li Metal Anodes. ACS Applied Energy Materials, 2019, 2, 1734-1746.	2.5	99

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19	DFT-Assisted Solid-State NMR Characterization of Defects in Li₂MnO₃. Inorganic Chemistry, 2019, 58, 8347-8356.	1.9	21
20	Unraveling the role of Ti in the stability of positive layered oxide electrodes for rechargeable Na-ion batteries. Journal of Materials Chemistry A, 2019, 7, 14169-14179.	5.2	55
21	Layered P2â€“O3 sodium-ion cathodes derived from earth abundant elements. Journal of Materials Chemistry A, 2018, 6, 3552-3559.	5.2	73
22	Natural and by-product materials for thermocline-based thermal energy storage system at CSP plant: Compatibility with mineral oil and molten nitrate salt. Applied Thermal Engineering, 2018, 136, 657-665.	3.0	19
23	Pathways towards high performance Naâ€“O₂ batteries: tailoring graphene aerogel cathode porosity & nanostructure. Journal of Materials Chemistry A, 2018, 6, 20778-20787.	5.2	36
24	P2 manganese rich sodium layered oxides: Rational stoichiometries for enhanced performance. Journal of Power Sources, 2018, 401, 117-125.	4.0	25
25	Hydrothermally reduced graphene oxide for the effective wrapping of sulfur particles showing long term stability as electrodes for Li-S batteries. Carbon, 2018, 139, 226-233.	5.4	27
26	Dual Substitution Strategy to Enhance Li⁺ Ionic Conductivity in Li₇La₃Zr₂O₁₂ Solid Electrolyte. Chemistry of Materials, 2017, 29, 1769-1778.	3.2	169
27	Investigating the Dendritic Growth during Full Cell Cycling of Garnet Electrolyte in Direct Contact with Li Metal. ACS Applied Materials & Interfaces, 2017, 9, 3808-3816.	4.0	307
28	Electrochemical performance of novel O3 layered Al,Mg doped titanates as anode materials for Na-ion batteries. Materials Research Bulletin, 2017, 94, 199-207.	2.7	8
29	New Single Ion Conducting Blend Based on PEO and PA-LiTFSI. Electrochimica Acta, 2017, 255, 48-54.	2.6	33
30	A comparative study of aqueous and organic processed Li1.2Ni0.2Mn0.6O2 Li-rich cathode materials for advanced lithium-ion batteries. Electrochimica Acta, 2017, 247, 420-425.	2.6	14
31	NaN 3 addition, a strategy to overcome the problem of sodium deficiency in P2-Na 0.67 [Fe 0.5 Mn 0.5]O 2 cathode for sodium-ion battery. Journal of Power Sources, 2017, 337, 197-203.	4.0	107
32	Moisture exposed layered oxide electrodes as Na-ion battery cathodes. Journal of Materials Chemistry A, 2016, 4, 18963-18975.	5.2	54
33	Structural and electrochemical analysis of Zn doped Na3Ni2SbO6 cathode for Na-ion battery. Journal of Power Sources, 2016, 336, 186-195.	4.0	33
34	Combining galvanic displacement and in situ polymerization in a new synthesis: micro-composite materials for Li-based batteries. Journal of Materials Chemistry A, 2016, 4, 18868-18877.	5.2	3
35	Towards environmentally friendly Na-ion batteries: Moisture and water stability of Na2Ti3O7. Journal of Power Sources, 2016, 324, 378-387.	4.0	39
36	High Voltage Mg-Doped Na_{0.67}Ni_{0.3â€“x}Mg_xMn_{0.7}O₂ (x = 0.05, 0.1) Na-Ion Cathodes with Enhanced Stability and Rate Capability. Chemistry of Materials, 2016, 28, 5087-5094.	3.2	242

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37	Scalable plasticized polymer electrolytes reinforced with surface-modified sepiolite fillers â€“ A feasibility study in lithium metal polymer batteries. Journal of Power Sources, 2016, 306, 772-778.	4.0	37
38	Identification of the critical synthesis parameters for enhanced cycling stability of Na-ion anode material Na2Ti3O7. Acta Materialia, 2016, 104, 125-130.	3.8	27
39	Sulindac Sulfide Induces the Formation of Large Oligomeric Aggregates of the Alzheimerâ€™s Disease Amyloid-Î² Peptide Which Exhibit Reduced Neurotoxicity. Biochemistry, 2016, 55, 1839-1849.	1.2	42
40	High-Performance P2-Phase Na_{2/3}Mn_{0.8}Fe_{0.1}Ti_{0.1}O₂ Cathode Material for Ambient-Temperature Sodium-Ion Batteries. Chemistry of Materials, 2016, 28, 106-116.	3.2	192
41	Allâ€Solidâ€State Lithiumâ€Ion Batteries with Grafted Ceramic Nanoparticles Dispersed in Solid Polymer Electrolytes. ChemSusChem, 2015, 8, 3039-3043.	3.6	121
42	Structural evolution during sodium deintercalation/intercalation in Na_{2/3}[Fe_{1/2}Mn_{1/2}]O₂. Journal of Materials Chemistry A, 2015, 3, 6954-6961.	5.2	117
43	Structural Mechanism of the Interaction of Alzheimer Disease Aβ2 Fibrils with the Non-steroidal Anti-inflammatory Drug (NSAID) Sulindac Sulfide. Journal of Biological Chemistry, 2015, 290, 28737-28745.	1.6	26
44	Enhancement of the Grain Boundary Conductivity in Ceramic Li_{0.34}La_{0.55}TiO₃ Electrolytes in a Moistureâ€Free Processing Environment. Advanced Materials Interfaces, 2014, 1, 1300143.	1.9	41
45	Synthesis and characterization of pure P2- and O3-Na_{2/3}Fe_{2/3}Mn_{1/3}O₂as cathode materials for Na ion batteries. Journal of Materials Chemistry A, 2014, 2, 18523-18530.	5.2	98
46	Site-specific analysis of heteronuclear Overhauser effects in microcrystalline proteins. Journal of Biomolecular NMR, 2014, 59, 241-249.	1.6	17
47	Atmosphere Controlled Processing of Ga-Substituted Garnets for High Li-Ion Conductivity Ceramics. Chemistry of Materials, 2014, 26, 3610-3617.	3.2	284
48	Cryogenic solid state NMR studies of fibrils of the Alzheimerâ€™s disease amyloid-Î² peptide: perspectives for DNP. Journal of Biomolecular NMR, 2013, 56, 359-363.	1.6	35
49	Hydrogen bonding involving side chain exchangeable groups stabilizes amyloid quarternary structure. Physical Chemistry Chemical Physics, 2013, 15, 12551.	1.3	20
50	Electrochemical Na Extraction/Insertion of Na₃V₂O_{2x}(PO₄)₂F_{3â€“2x}. Chemistry of Materials, 2013, 25, 4917-4925.	8.6	112
51	Kinetics of Coupled Double Proton and Deuteron Transfer in Hydrogen-Bonded Ribbons of Crystalline Pyrazole-4-carboxylic Acid. Zeitschrift Fur Physikalische Chemie, 2012, 226, 1125-1148.	1.4	11
52	Structural Properties of EGCG-Induced, Nontoxic Alzheimer's Disease Aβ2 Oligomers. Journal of Molecular Biology, 2012, 421, 517-524.	2.0	152
53	Small-molecule conversion of toxic oligomers to nontoxic β2-sheetâ€“rich amyloid fibrils. Nature Chemical Biology, 2012, 8, 93-101.	3.9	400
54	An Asymmetric Dimer as the Basic Subunit in Alzheimerâ€™s Disease Amyloid Î² Fibrils. Angewandte Chemie - International Edition, 2012, 51, 6136-6139.	7.2	88

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55	Protonâ€Detected Solidâ€State NMR Spectroscopy of Fibrillar and Membrane Proteins. Angewandte Chemie - International Edition, 2011, 50, 4508-4512.	7.2	179
56	Bacterial Inclusion Bodies of Alzheimer's Disease Î²â€Amyloid Peptides Can Be Employed To Study Nativeâ€Like Aggregation Intermediate States. ChemBioChem, 2011, 12, 407-423.	1.3	90
57	Quantification of protein backbone hydrogen-deuterium exchange rates by solid state NMR spectroscopy. Journal of Biomolecular NMR, 2010, 48, 203-212.	1.6	24
58	Structural Analysis of Zincocenes with Substituted Cyclopentadienyl Rings. Chemistry - A European Journal, 2009, 15, 924-935.	1.7	18
59	Isotope and Phase Effects on the Proton Tautomerism in Polycrystalline Porphycene Revealed by NMR. Journal of Physical Chemistry A, 2009, 113, 2193-2206.	1.1	31
60	NMR Studies of Ultrafast Intramolecular Proton Tautomerism in Crystalline and Amorphous N,Nâ€²-Diphenyl-6-aminofulvene-1-aldimine: Solid-State, Kinetic Isotope, and Tunneling Effects. Journal of the American Chemical Society, 2008, 130, 8620-8632.	6.6	35
61	Low-Temperature NMR Studies of Zn Tautomerism and Hindered Rotations in Solid Zincocene Derivatives. Journal of Physical Chemistry A, 2008, 112, 3557-3565.	1.1	7
62	NMR studies of double proton transfer in hydrogen bonded cyclic N,Nâ€²-diarylformamidine dimers: conformational control, kinetic HH/HD/DD isotope effects and tunneling. Physical Chemistry Chemical Physics, 2007, 9, 4498.	1.3	39
63	Arrhenius curves of hydrogen transfers: tunnel effects, isotope effects and effects of pre-equilibria. Philosophical Transactions of the Royal Society B: Biological Sciences, 2006, 361, 1399-1415.	1.8	129
64	Dynamic NMR Study of the Mechanisms of Double, Triple, and Quadruple Proton and Deuteron Transfer in Cyclic Hydrogen Bonded Solids of Pyrazole Derivatives. Journal of the American Chemical Society, 2004, 126, 11718-11732.	6.6	95
65	Kinetic Hydrogen/Deuterium Isotope Effects in Multiple Proton Transfer Reactions. Zeitschrift Fur Physikalische Chemie, 2004, 218, 17-50.	1.4	18