

Juan Miguel Lopez del Amo

List of Publications by Year in descending order

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65
papers

4,252
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136885

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110317

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all docs

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docs citations

68
times ranked

5625
citing authors

#	ARTICLE	IF	CITATIONS
1	Small-molecule conversion of toxic oligomers to nontoxic β -sheet-rich amyloid fibrils. <i>Nature Chemical Biology</i> , 2012, 8, 93-101.	3.9	400
2	Investigating the Dendritic Growth during Full Cell Cycling of Garnet Electrolyte in Direct Contact with Li Metal. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3808-3816.	4.0	307
3	Atmosphere Controlled Processing of Ga-Substituted Garnets for High Li-Ion Conductivity Ceramics. <i>Chemistry of Materials</i> , 2014, 26, 3610-3617.	3.2	284
4	High Voltage Mg-Doped $\text{Na}_{0.67}\text{Ni}_{0.3}\text{Mg}_x\text{Mn}_{0.7}\text{O}_2$ ($x = 0.05, 0.1$) Na-Ion Cathodes with Enhanced Stability and Rate Capability. <i>Chemistry of Materials</i> , 2016, 28, 5087-5094.	3.2	242
5	High-Performance P2-Phase $\text{Na}_{2/3}\text{Mn}_{0.8}\text{Fe}_{0.1}\text{Ti}_{0.1}\text{O}_2$ Cathode Material for Ambient-Temperature Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2016, 28, 106-116.	3.2	192
6	Proton-Detected Solid-State NMR Spectroscopy of Fibrillar and Membrane Proteins. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4508-4512.	7.2	179
7	Dual Substitution Strategy to Enhance Li^{+} Ionic Conductivity in $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Solid Electrolyte. <i>Chemistry of Materials</i> , 2017, 29, 1769-1778.	3.2	169
8	Structural Properties of EGCG-Induced, Nontoxic Alzheimer's Disease $\text{A}\beta$ Oligomers. <i>Journal of Molecular Biology</i> , 2012, 421, 517-524.	2.0	152
9	Arrhenius curves of hydrogen transfers: tunnel effects, isotope effects and effects of pre-equilibria. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 1399-1415.	1.8	129
10	All-Solid-State Lithium-Ion Batteries with Grafted Ceramic Nanoparticles Dispersed in Solid Polymer Electrolytes. <i>ChemSusChem</i> , 2015, 8, 3039-3043.	3.6	121
11	Structural evolution during sodium deintercalation/intercalation in $\text{Na}_{2/3}[\text{Fe}_{1/2}\text{Mn}_{1/2}]\text{O}_2$. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6954-6961.	5.2	117
12	Electrochemical Na Extraction/Insertion of $\text{Na}_3\text{V}_2\text{O}_7(\text{PO}_4)_2\text{F}_3$. <i>Chemistry of Materials</i> , 2013, 25, 4917-4925.		112
13	Na_3 addition, a strategy to overcome the problem of sodium deficiency in P2- $\text{Na}_{0.67}[\text{Fe}_{0.5}\text{Mn}_{0.5}]\text{O}_2$ cathode for sodium-ion battery. <i>Journal of Power Sources</i> , 2017, 337, 197-203.	4.0	107
14	Garnet-Polymer Composite Electrolytes: New Insights on Local Li-Ion Dynamics and Electrodeposition Stability with Li Metal Anodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 1734-1746.	2.5	99
15	Synthesis and characterization of pure P2- and O3- $\text{Na}_{2/3}\text{Fe}_{2/3}\text{Mn}_{1/3}\text{O}_2$ as cathode materials for Na ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18523-18530.	5.2	98
16	Dynamic NMR Study of the Mechanisms of Double, Triple, and Quadruple Proton and Deuteron Transfer in Cyclic Hydrogen Bonded Solids of Pyrazole Derivatives. <i>Journal of the American Chemical Society</i> , 2004, 126, 11718-11732.	6.6	95
17	Bacterial Inclusion Bodies of Alzheimer's Disease $\text{A}\beta$ Amyloid Peptides Can Be Employed To Study Native-Like Aggregation Intermediate States. <i>ChemBioChem</i> , 2011, 12, 407-423.	1.3	90
18	An Asymmetric Dimer as the Basic Subunit in Alzheimer's Disease Amyloid β Fibrils. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6136-6139.	7.2	88

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19	A Co ²⁺ and Ni ²⁺ -Free P2/O3 Biphasic Lithium Stabilized Layered Oxide for Sodium-Ion Batteries and its Cycling Behavior. <i>Advanced Functional Materials</i> , 2020, 30, 2003364.	7.8	80
20	Layered P2-O3 sodium-ion cathodes derived from earth abundant elements. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3552-3559.	5.2	73
21	Unraveling the role of Ti in the stability of positive layered oxide electrodes for rechargeable Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14169-14179.	5.2	55
22	Moisture exposed layered oxide electrodes as Na-ion battery cathodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18963-18975.	5.2	54
23	Crystalline LiPON as a Bulk-Type Solid Electrolyte. <i>ACS Energy Letters</i> , 2021, 6, 445-450.	8.8	43
24	Sulindac Sulfide Induces the Formation of Large Oligomeric Aggregates of the Alzheimer's Disease Amyloid- β Peptide Which Exhibit Reduced Neurotoxicity. <i>Biochemistry</i> , 2016, 55, 1839-1849.	1.2	42
25	Enhancement of the Grain Boundary Conductivity in Ceramic Li _{0.34} La _{0.55} TiO ₃ Electrolytes in a Moisture-Free Processing Environment. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300143.	1.9	41
26	NMR studies of double proton transfer in hydrogen bonded cyclic N,N'-diarylformamidinium dimers: conformational control, kinetic HH/HD/DD isotope effects and tunneling. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4498.	1.3	39
27	Towards environmentally friendly Na-ion batteries: Moisture and water stability of Na ₂ Ti ₃ O ₇ . <i>Journal of Power Sources</i> , 2016, 324, 378-387.	4.0	39
28	Scalable plasticized polymer electrolytes reinforced with surface-modified sepiolite fillers - A feasibility study in lithium metal polymer batteries. <i>Journal of Power Sources</i> , 2016, 306, 772-778.	4.0	37
29	Pathways towards high performance Na ₂ O ₂ batteries: tailoring graphene aerogel cathode porosity & nanostructure. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20778-20787.	5.2	36
30	NMR Studies of Ultrafast Intramolecular Proton Tautomerism in Crystalline and Amorphous N,N'-Diphenyl-6-aminofulvene-1-alimine: Solid-State, Kinetic Isotope, and Tunneling Effects. <i>Journal of the American Chemical Society</i> , 2008, 130, 8620-8632.	6.6	35
31	Cryogenic solid state NMR studies of fibrils of the Alzheimer's disease amyloid- β peptide: perspectives for DNP. <i>Journal of Biomolecular NMR</i> , 2013, 56, 359-363.	1.6	35
32	Sodium manganese-rich layered oxides: Potential candidates as positive electrode for Sodium-ion batteries. <i>Energy Storage Materials</i> , 2021, 34, 682-707.	9.5	35
33	Structural Aspects of P2-Type Na _{0.67} Mn _{0.6} Ni _{0.2} Li _{0.2} O ₂ (MNL) Stabilization by Lithium Defects as a Cathode Material for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102939.	7.8	35
34	Functionalized cellulose as quasi single-ion conductors in polymer electrolyte for all-solid-state Li/Na and Li S batteries. <i>Solid State Ionics</i> , 2020, 345, 115168.	1.3	34
35	Structural and electrochemical analysis of Zn doped Na ₃ Ni ₂ SbO ₆ cathode for Na-ion battery. <i>Journal of Power Sources</i> , 2016, 336, 186-195.	4.0	33
36	New Single Ion Conducting Blend Based on PEO and PA-LiTFSI. <i>Electrochimica Acta</i> , 2017, 255, 48-54.	2.6	33

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37	Isotope and Phase Effects on the Proton Tautomerism in Polycrystalline Porphycene Revealed by NMR. <i>Journal of Physical Chemistry A</i> , 2009, 113, 2193-2206.	1.1	31
38	Identification of the critical synthesis parameters for enhanced cycling stability of Na-ion anode material Na ₂ Ti ₃ O ₇ . <i>Acta Materialia</i> , 2016, 104, 125-130.	3.8	27
39	Hydrothermally reduced graphene oxide for the effective wrapping of sulfur particles showing long term stability as electrodes for Li-S batteries. <i>Carbon</i> , 2018, 139, 226-233.	5.4	27
40	Structural Mechanism of the Interaction of Alzheimer Disease A β Fibrils with the Non-steroidal Anti-inflammatory Drug (NSAID) Sulindac Sulfide. <i>Journal of Biological Chemistry</i> , 2015, 290, 28737-28745.	1.6	26
41	P2 manganese rich sodium layered oxides: Rational stoichiometries for enhanced performance. <i>Journal of Power Sources</i> , 2018, 401, 117-125.	4.0	25
42	Quantification of protein backbone hydrogen-deuterium exchange rates by solid state NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2010, 48, 203-212.	1.6	24
43	High performance LTP thin film electrolytes for all-solid-state microbattery applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17760-17769.	5.2	23
44	Understanding enhanced charge storage of phosphorus-functionalized graphene in aqueous acidic electrolytes. <i>Electrochimica Acta</i> , 2020, 361, 136985.	2.6	22
45	DFT-Assisted Solid-State NMR Characterization of Defects in Li ₂ MnO ₃ . <i>Inorganic Chemistry</i> , 2019, 58, 8347-8356.	1.9	21
46	Characterization of the interfacial Li-ion exchange process in a ceramic-polymer composite by solid state NMR. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17812-17820.	5.2	21
47	Hydrogen bonding involving side chain exchangeable groups stabilizes amyloid quaternary structure. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12551.	1.3	20
48	Natural and by-product materials for thermocline-based thermal energy storage system at CSP plant: Compatibility with mineral oil and molten nitrate salt. <i>Applied Thermal Engineering</i> , 2018, 136, 657-665.	3.0	19
49	Kinetic Hydrogen/Deuterium Isotope Effects in Multiple Proton Transfer Reactions. <i>Zeitschrift Fur Physikalische Chemie</i> , 2004, 218, 17-50.	1.4	18
50	Structural Analysis of Zincocenes with Substituted Cyclopentadienyl Rings. <i>Chemistry - A European Journal</i> , 2009, 15, 924-935.	1.7	18
51	Site-specific analysis of heteronuclear Overhauser effects in microcrystalline proteins. <i>Journal of Biomolecular NMR</i> , 2014, 59, 241-249.	1.6	17
52	Highly Homogeneous Sodium Superoxide Growth in Na ₂ O ₂ Batteries Enabled by a Hybrid Electrolyte. <i>ACS Energy Letters</i> , 2020, 5, 903-909.	8.8	16
53	A comparative study of aqueous and organic processed Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ Li-rich cathode materials for advanced lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 247, 420-425.	2.6	14
54	Structural evolution and electrochemistry of the Mn-Rich P2-Na _{2/3} Mn _{0.9} Ti _{0.05} Fe _{0.05} O ₂ positive electrode material. <i>Electrochimica Acta</i> , 2020, 341, 135978.	2.6	13

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55	Controlling the Three-Phase Boundary in Na ⁺ Oxygen Batteries: The Synergy of Carbon Nanofibers and Ionic Liquid. <i>ChemSusChem</i> , 2019, 12, 4054-4063.	3.6	12
56	Influence of Transition-Metal Order on the Reaction Mechanism of LNMO Cathode Spinel: An <i>Operando</i> X-ray Absorption Spectroscopy Study. <i>Chemistry of Materials</i> , 2022, 34, 6529-6540.	3.2	12
57	Kinetics of Coupled Double Proton and Deuteron Transfer in Hydrogen-Bonded Ribbons of Crystalline Pyrazole-4-carboxylic Acid. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 1125-1148.	1.4	11
58	High performance P2 sodium layered oxides: an in-depth study into the effect of rationally selected stoichiometry. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21812-21826.	5.2	11
59	Enhancing the polymer electrolyte-Li metal interface on high-voltage solid-state batteries with Li-based additives inspired by the surface chemistry of $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2352-2361.	5.2	10
60	Unveiling the Impact of the Cations and Anions in Ionic Liquid/Glyme Hybrid Electrolytes for Na ⁺ O ²⁻ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4022-4034.	4.0	9
61	Electrochemical performance of novel O3 layered Al,Mg doped titanates as anode materials for Na-ion batteries. <i>Materials Research Bulletin</i> , 2017, 94, 199-207.	2.7	8
62	Low-Temperature NMR Studies of Zn Tautomerism and Hindered Rotations in Solid Zincocene Derivatives. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3557-3565.	1.1	7
63	Ion transport from water-in-salt electrolyte through porosity of hierarchical porous carbons unraveled by solid-state NMR. <i>Electrochimica Acta</i> , 2022, 404, 139716.	2.6	4
64	Enhancing the Performance of Ceramic-Rich Polymer Composite Electrolytes Using Polymer Grafted LLZO. <i>Inorganics</i> , 2022, 10, 81.	1.2	4
65	Combining galvanic displacement and in situ polymerization in a new synthesis: micro-composite materials for Li-based batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18868-18877.	5.2	3