Pedro LÃ³pez-Aranguren

List of Publications by Year
in descending order

21 papers	500 citations	623734 14 h-index	713466 21 g-index
21 all docs	21 docs citations	21 times ranked	670 citing authors

#	Article	IF	Citations
1	Enabling double layer polymer electrolyte batteries: Overcoming the Li-salt interdiffusion. Energy Storage Materials, 2022, 45, 578-585.	18.0	14
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.	10.3	10
3	Toward High-Voltage Solid-State Li-Metal Batteries with Double-Layer Polymer Electrolytes. ACS Energy Letters, 2022, 7, 1473-1480.	17.4	55
4	Designing Spinel Li4Ti5O12 Electrode as Anode Material for Poly(ethylene)oxide-Based Solid-State Batteries. Materials, 2021, 14, 1213.	2.9	9
5	Crystalline LiPON as a Bulk-Type Solid Electrolyte. ACS Energy Letters, 2021, 6, 445-450.	17.4	43
6	Solid-State Li-Ion Batteries Operating at Room Temperature Using New Borohydride Argyrodite Electrolytes. Materials, 2020, 13, 4028.	2.9	11
7	High Voltage Solid State Batteries: Targeting High Energy Density with Polymer Composite Electrolytes. Journal of the Electrochemical Society, 2020, 167, 020548.	2.9	28
8	Improvement of the ionic conductivity on new substituted borohydride argyrodites. Solid State Ionics, 2019, 339, 114987.	2.7	14
9	Understanding the Role of Nanoâ€Aluminum Oxide in Allâ€Solidâ€State Lithiumâ€Sulfur Batteries. ChemElectroChem, 2019, 6, 326-330.	3.4	28
10	Electrochemical properties of MgH2 â€“ TiH2 nanocomposite as active materials for all-solid-state lithium batteries. Journal of Power Sources, 2018, 397, 143-149.	7.8	15
11	An all-solid-state metal hydride â€“ Sulfur lithium-ion battery. Journal of Power Sources, 2017, 357, 56-60.	7.8	46
12	Hybrid aminopolymerâ€“silica materials for efficient CO₂adsorption. RSC Advances, 2015, 5, 104943-104953.	3.6	22
13	Analysis of CO₂ Adsorption in Amine-Functionalized Porous Silicas by Molecular Simulations. Energy & Fuels, 2015, 29, 3855-3862.	5.1	36
14	A novel solventless coating method to graft low-molecular weight polyethyleneimine on silica fine powders. Journal of Polymer Science Part A, 2014, 52, 2760-2768.	2.3	9
15	Regenerable solid CO2 sorbents prepared by supercritical grafting of aminoalkoxysilane into low-cost mesoporous silica. Journal of Supercritical Fluids, 2014, 85, 68-80.	3.2	31
16	Understanding the Performance of New Amine-Functionalized Mesoporous Silica Materials for CO₂ Adsorption. Industrial & Engineering Chemistry Research, 2014, 53, 15611-15619.	3.7	25
17	CO2 capture efficiency and carbonation/calcination kinetics of micro and nanosized particles of supercritically precipitated calcium carbonate. Chemical Engineering Journal, 2013, 226, 357-366.	12.7	28
18	A new method using compressed CO2 for the in situ functionalization of mesoporous silica with hyperbranched polymers. Chemical Communications, 2013, 49, 11776.	4.1	20

#	Article	IF	Citations
19	Alkylsilane-Functionalized Microporous and Mesoporous Materials: Molecular Simulation and Experimental Analysis of Gas Adsorption. Journal of Physical Chemistry C, 2012, 116, 10150-10161.	3.1	25
20	An equation of state for poreâ€confined fluids. AICHE Journal, 2012, 58, 3597-3600.	3.6	3
21	Sorption of tryalkoxysilane in low-cost porous silicates using a supercritical CO2 method. Microporous and Mesoporous Materials, 2012, 148, 15-24.	4.4	28