

# Pedro LÃ³pez-Aranguren

## List of Publications by Year in descending order

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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	Toward High-Voltage Solid-State Li-Metal Batteries with Double-Layer Polymer Electrolytes. ACS Energy Letters, 2022, 7, 1473-1480.	17.4	55
2	An all-solid-state metal hydride " Sulfur lithium-ion battery. Journal of Power Sources, 2017, 357, 56-60.	7.8	46
3	Crystalline LiPON as a Bulk-Type Solid Electrolyte. ACS Energy Letters, 2021, 6, 445-450.	17.4	43
4	Analysis of CO <sub>2</sub> Adsorption in Amine-Functionalized Porous Silicas by Molecular Simulations. Energy & Fuels, 2015, 29, 3855-3862.	5.1	36
5	Regenerable solid CO <sub>2</sub> sorbents prepared by supercritical grafting of aminoalkoxysilane into low-cost mesoporous silica. Journal of Supercritical Fluids, 2014, 85, 68-80.	3.2	31
6	Sorption of trialkoxysilane in low-cost porous silicates using a supercritical CO <sub>2</sub> method. Microporous and Mesoporous Materials, 2012, 148, 15-24.	4.4	28
7	CO <sub>2</sub> 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
8	Understanding the Role of Nano-Aluminum Oxide in All-Solid-State Lithium-Sulfur Batteries. ChemElectroChem, 2019, 6, 326-330.	3.4	28
9	High Voltage Solid State Batteries: Targeting High Energy Density with Polymer Composite Electrolytes. Journal of the Electrochemical Society, 2020, 167, 020548.	2.9	28
10	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
11	Understanding the Performance of New Amine-Functionalized Mesoporous Silica Materials for CO <sub>2</sub> Adsorption. Industrial & Engineering Chemistry Research, 2014, 53, 15611-15619.	3.7	25
12	Hybrid aminopolymer-silica materials for efficient CO <sub>2</sub> adsorption. RSC Advances, 2015, 5, 104943-104953.	3.6	22
13	A new method using compressed CO <sub>2</sub> for the in situ functionalization of mesoporous silica with hyperbranched polymers. Chemical Communications, 2013, 49, 11776.	4.1	20
14	Electrochemical properties of MgH <sub>2</sub> " TiH <sub>2</sub> nanocomposite as active materials for all-solid-state lithium batteries. Journal of Power Sources, 2018, 397, 143-149.	7.8	15
15	Improvement of the ionic conductivity on new substituted borohydride argyrodites. Solid State Ionics, 2019, 339, 114987.	2.7	14
16	Enabling double layer polymer electrolyte batteries: Overcoming the Li-salt interdiffusion. Energy Storage Materials, 2022, 45, 578-585.	18.0	14
17	Solid-State Li-Ion Batteries Operating at Room Temperature Using New Borohydride Argyrodite Electrolytes. Materials, 2020, 13, 4028.	2.9	11
18	Enhancing the polymer electrolyte-Li metal interface on high-voltage solid-state batteries with Li-based additives inspired by the surface chemistry of Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> . Journal of Materials Chemistry A, 2022, 10, 2352-2361.	10.3	10

#	ARTICLE	IF	CITATIONS
19	A novel solventless coating method to graft low-molecular weight polyethyleneimine on silica fine powders. <i>Journal of Polymer Science Part A</i> , 2014, 52, 2760-2768.	2.3	9
20	Designing Spinel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Electrode as Anode Material for Poly(ethylene)oxide-Based Solid-State Batteries. <i>Materials</i> , 2021, 14, 1213.	2.9	9
21	An equation of state for pore-confined fluids. <i>AIChE Journal</i> , 2012, 58, 3597-3600.	3.6	3