

# Javier Carretero González

## List of Publications by Year in descending order

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57  
papers

6,854  
citations

136885

32  
h-index

149623

56  
g-index

58  
all docs

58  
docs citations

58  
times ranked

9828  
citing authors

#	ARTICLE	IF	CITATIONS
1	Na-ion batteries, recent advances and present challenges to become low cost energy storage systems. <i>Energy and Environmental Science</i> , 2012, 5, 5884.	15.6	3,078
2	Biscrolling Nanotube Sheets and Functional Guests into Yarns. <i>Science</i> , 2011, 331, 51-55.	6.0	338
3	Direct observation of ion dynamics in supercapacitor electrodes using in situ diffusion NMR spectroscopy. <i>Nature Energy</i> , 2017, 2, .	19.8	285
4	Materials™ Methods: NMR in Battery Research. <i>Chemistry of Materials</i> , 2017, 29, 213-242.	3.2	279
5	Uncertainties in the Determination of Cross-Link Density by Equilibrium Swelling Experiments in Natural Rubber. <i>Macromolecules</i> , 2008, 41, 4717-4729.	2.2	201
6	Crystal chemistry of Na insertion/deinsertion in FePO <sub>4</sub> •NaFePO <sub>4</sub> . <i>Journal of Materials Chemistry</i> , 2012, 22, 17421.	6.7	189
7	Polymeric Schiff Bases as Low Voltage Redox Centers for Sodium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5341-5345.	7.2	170
8	Morphology/behaviour relationship of nanocomposites based on natural rubber/epoxidized natural rubber blends. <i>Composites Science and Technology</i> , 2007, 67, 1330-1339.	3.8	167
9	Novel Experimental Approach To Evaluate Filler-Elastomer Interactions. <i>Macromolecules</i> , 2010, 43, 334-346.	2.2	163
10	Effect of Nanoclay on Natural Rubber Microstructure. <i>Macromolecules</i> , 2008, 41, 6763-6772.	2.2	144
11	Effect of pore texture on performance of activated carbon supercapacitor electrodes derived from olive pits. <i>Electrochimica Acta</i> , 2015, 160, 178-184.	2.6	144
12	In situ NMR metrology reveals reaction mechanisms in redox flow batteries. <i>Nature</i> , 2020, 579, 224-228.	13.7	132
13	Physical properties of silicone foams filled with carbon nanotubes and functionalized graphene sheets. <i>European Polymer Journal</i> , 2008, 44, 2790-2797.	2.6	118
14	Development of asymmetric supercapacitors with titanium carbide-reduced graphene oxide couples as electrodes. <i>Electrochimica Acta</i> , 2018, 259, 752-761.	2.6	103
15	Oligomeric-Schiff bases as negative electrodes for sodium ion batteries: unveiling the nature of their active redox centers. <i>Energy and Environmental Science</i> , 2015, 8, 3233-3241.	15.6	97
16	Molecular Dynamics of Natural Rubber/Layered Silicate Nanocomposites As Studied by Dielectric Relaxation Spectroscopy. <i>Macromolecules</i> , 2010, 43, 643-651.	2.2	94
17	Thermo-reversible crosslinked natural rubber: A Diels-Alder route for reuse and self-healing properties in elastomers. <i>Polymer</i> , 2019, 175, 15-24.	1.8	82
18	Rubber network in elastomer nanocomposites. <i>European Polymer Journal</i> , 2007, 43, 4143-4150.	2.6	75

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19	Fibers of reduced graphene oxide nanoribbons. <i>Nanotechnology</i> , 2012, 23, 235601.	1.3	71
20	Oriented Graphene Nanoribbon Yarn and Sheet from Aligned Multi-Walled Carbon Nanotube Sheets. <i>Advanced Materials</i> , 2012, 24, 5695-5701.	11.1	67
21	Highly water-soluble three-redox state organic dyes as bifunctional analytes. <i>Energy and Environmental Science</i> , 2016, 9, 3521-3530.	15.6	66
22	Real-Time Crystallization of Organoclay Nanoparticle Filled Natural Rubber under Stretching. <i>Macromolecules</i> , 2008, 41, 2295-2298.	2.2	61
23	Full-cell quinone/hydroquinone supercapacitors based on partially reduced graphite oxide and lignin/PEDOT electrodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7137-7143.	5.2	57
24	Understanding LiOH Formation in a Li-O <sub>2</sub> Battery with LiI and H <sub>2</sub> O Additives. <i>ACS Catalysis</i> , 2019, 9, 66-77.	5.5	57
25	Nanoporous carbons from natural lignin: study of structural and textural properties and application to organic-based supercapacitors. <i>RSC Advances</i> , 2014, 4, 48336-48343.	1.7	50
26	Molecular dynamics of natural rubber as revealed by dielectric spectroscopy: The role of natural cross-linking. <i>Soft Matter</i> , 2010, 6, 3636.	1.2	47
27	Poly(quinone-amine)/nanocarbon composite electrodes with enhanced proton storage capacity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23292-23298.	5.2	47
28	Natural rubber/clay nanocomposites: Influence of poly(ethylene glycol) on the silicate dispersion and local chain order of rubber network. <i>European Polymer Journal</i> , 2008, 44, 3493-3500.	2.6	44
29	Photoinduced Optical Transparency in Dye-Sensitized Solar Cells Containing Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25125-25131.	1.5	35
30	Temperature effect on the synthesis of lignin-derived carbons for electrochemical energy storage applications. <i>Journal of Power Sources</i> , 2018, 397, 296-306.	4.0	34
31	High temperature structural transformations of few layer graphene nanoribbons obtained by unzipping carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 221-228.	5.2	32
32	Response to Comment on "Cycling Li-O <sub>2</sub> batteries via LiOH formation and decomposition". <i>Science</i> , 2016, 352, 667-667.	6.0	32
33	A Comparative Study on HCN Polymers Synthesized by Polymerization of NH <sub>4</sub> CN or Diaminomaleonitrile in Aqueous Media: New Perspectives for Prebiotic Chemistry and Materials Science. <i>Chemistry - A European Journal</i> , 2019, 25, 11437-11455.	1.7	27
34	Hybrid biopolymer electrodes for lithium- and sodium-ion batteries in organic electrolytes. <i>Sustainable Energy and Fuels</i> , 2018, 2, 836-842.	2.5	23
35	Miscibility, dispersion, interfacial strength and nanoclay mobility relationships in polymer nanocomposites. <i>Soft Matter</i> , 2009, 5, 3481.	1.2	21
36	Reconstructed Ribbon Edges in Thermally Reduced Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24006-24015.	1.5	20

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37	Polymeric Redox-Active Electrodes for Sodium-Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 311-319.	3.6	19
38	Synthesis of sustainable, lightweight and electrically conductive polymer brushes grafted multi-layer graphene oxide. <i>Polymer Testing</i> , 2021, 93, 106986.	2.3	16
39	Thermal actuation of graphene oxide nanoribbon mats. <i>Chemical Physics Letters</i> , 2011, 505, 31-36.	1.2	15
40	Cellulose Nanocrystals in Sustainable Energy Systems. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	15
41	Sustainable materials for off-grid battery applications: advances, challenges and prospects. <i>Sustainable Energy and Fuels</i> , 2021, 5, 310-331.	2.5	14
42	Relation between texture and high-rate capacitance of oppositely charged microporous carbons from biomass waste in acetonitrile-based supercapacitors. <i>Electrochimica Acta</i> , 2019, 293, 496-503.	2.6	13
43	Response to Comment on "Cycling Li-O <sub>2</sub> batteries via LiOH formation and decomposition". <i>Science</i> , 2016, 352, 667-667.	6.0	11
44	Tunable Supercapacitor Materials Derived from Hydrochar/Gold Nanograpes. <i>ACS Applied Energy Materials</i> , 2020, 3, 9348-9359.	2.5	11
45	Nanostructure, porosity and electrochemical performance of chromium carbide derived carbons. <i>Carbon</i> , 2015, 85, 38-49.	5.4	9
46	High Conductivity in a Fluorine-Free K-Ion Polymer Electrolyte. <i>ACS Applied Energy Materials</i> , 2022, 5, 9009-9019.	2.5	9
47	Compact polyelectrolyte hydrogels of gelatin and chondroitin sulfate as ion's mobile media in sustainable all-solid state electrochemical devices. <i>Materials Advances</i> , 2020, 1, 2526-2535.	2.6	7
48	Lithium ion storage in 1D and 2D redox active metal-organic frameworks. <i>Electrochimica Acta</i> , 2020, 341, 136063.	2.6	6
49	Activated nanoporous carbon-gold nanoparticle composite electrode with enhanced volumetric capacitance. <i>RSC Advances</i> , 2015, 5, 86282-86290.	1.7	5
50	Electrochemical synthesis of Fe oxide-based catalysts for the growth of nanocarbons. <i>RSC Advances</i> , 2014, 4, 59862-59868.	1.7	4
51	Redox-active coordination polymers as bifunctional electrolytes in slurry-based aqueous batteries at neutral pH. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115442.	1.9	4
52	Development of Nanostructured Catalytic Membranes for Partial Benzene Hydrogenation to Cyclohexene. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 4391-4401.	0.9	3
53	In-situ generation of metal-metal oxide catalysts for the growth of highly oriented graphitic nanowiggles. <i>Carbon</i> , 2014, 68, 821-825.	5.4	3
54	Organometallic-Derived Carbon (ODC)-Metal Nano-Oxide Composites as Improved Electrode Materials for Supercapacitors. <i>Inorganic Chemistry</i> , 2019, 58, 9175-9180.	1.9	2

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55	Toward Smart Polymeric Binders for Battery Electrodes. , 2019, , 651-669.		1
56	Acidic triggering of reversible electrochemical activity in a pyrenetetraone-based 2D polymer. Polymer, 2021, 212, 123273.	1.8	1
57	Multifunctional metal-free rechargeable polymer composite nanoparticles boosted by CO2. Materials Today Sustainability, 2020, 10, 100048.	1.9	0