

# João Gaubicher

## List of Publications by Year in descending order

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44  
papers

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citations

331670

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Opportunities and Challenges for Organic Electrodes in Electrochemical Energy Storage. <i>Chemical Reviews</i> , 2020, 120, 6490-6557.	47.7	517
2	Progress in all-organic rechargeable batteries using cationic and anionic configurations: Toward low-cost and greener storage solutions?. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 70-80.	4.8	113
3	Lithium nâ€Doped Polyaniline as a Highâ€Performance Electroactive Material for Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1553-1556.	13.8	99
4	Elucidation of the Na <sub>2/3</sub> FePO <sub>4</sub> and Li <sub>2/3</sub> FePO <sub>4</sub> Intermediate Superstructure Revealing a Pseudouniform Ordering in 2D. <i>Journal of the American Chemical Society</i> , 2014, 136, 9144-9157.	13.7	67
5	Mechanism of Silicon Electrode Aging upon Cycling in Full Lithiumâ€Ion Batteries. <i>ChemSusChem</i> , 2016, 9, 841-848.	6.8	67
6	Full Organic Aqueous Battery Based on TEMPO Small Molecule with Millimeter-Thick Electrodes. <i>Chemistry of Materials</i> , 2019, 31, 1869-1880.	6.7	42
7	Dual Anionâ€Cation Reversible Insertion in a Bipyridiniumâ€Diamide Triad as the Negative Electrode for Aqueous Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701988.	19.5	41
8	Sol Gel Synthesis of Li <sub>1+x</sub> V <sub>3</sub> O <sub>8</sub> . 1. From Precursors to Xerogel. <i>Chemistry of Materials</i> , 2005, 17, 2276-2283.	6.7	37
9	In situ redox functionalization of composite electrodes for high powerâ€high energy electrochemical storage systems via a non-covalent approach. <i>Energy and Environmental Science</i> , 2012, 5, 5379-5386.	30.8	37
10	Cascadeâ€Type Prelithiation Approach for Liâ€Ion Capacitors. <i>Advanced Energy Materials</i> , 2019, 9, 1900078.	19.5	37
11	A rechargeable lithium/quinone battery using a commercial polymer electrolyte. <i>Electrochemistry Communications</i> , 2015, 55, 22-25.	4.7	33
12	<sup>7</sup> Li and <sup>51</sup> V MAS NMR Study of the Electrochemical Behavior of Li <sub>1+x</sub> V <sub>3</sub> O <sub>8</sub> . <i>Chemistry of Materials</i> , 2004, 16, 2725-2733.	6.7	31
13	Crystal structure of a new vanadium(IV) diphosphate: VP <sub>2</sub> O <sub>7</sub> , prepared by lithium extraction from LiVP <sub>2</sub> O <sub>7</sub> . <i>Solid State Sciences</i> , 2001, 3, 881-887.	0.7	29
14	Toward fully organic rechargeable charge storage devices based on carbon electrodes grafted with redox molecules. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8599-8602.	10.3	29
15	Modification of activated carbons based on diazonium ions in situ produced from aminobenzene organic acid without addition of other acid. <i>Journal of Materials Chemistry</i> , 2011, 21, 12221.	6.7	26
16	Lowering interfacial chemical reactivity of oxide materials for lithium batteries. A molecular grafting approach. <i>Journal of Materials Chemistry</i> , 2009, 19, 4771.	6.7	25
17	Synergistic Effect in Carbon Coated LiFePO <sub>4</sub> for High Yield Spontaneous Grafting of Diazonium Salt. Structural Examination at the Grain Agglomerate Scale. <i>Journal of the American Chemical Society</i> , 2013, 135, 11614-11622.	13.7	25
18	Structural changes of a Li/S rechargeable cell in Lithium Metal Polymer technology. <i>Journal of Power Sources</i> , 2013, 241, 249-254.	7.8	25

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19	Spontaneous arylation of activated carbon from aminobenzene organic acids as source of diazonium ions in mild conditions. <i>Electrochimica Acta</i> , 2013, 88, 680-687.	5.2	24
20	Lithium doped Polyaniline as a High Performance Electroactive Material for Rechargeable Batteries. <i>Angewandte Chemie</i> , 2017, 129, 1575-1578.	2.0	23
21	Intermixed Cation-Anion Aqueous Battery Based on an Extremely Fast and Long Cycling DiBlock Bipyridinium-Naphthalene Diimide Oligomer. <i>Advanced Energy Materials</i> , 2019, 9, 1803688.	19.5	22
22	Improved electro-grafting of nitropyrene onto onion-like carbon via in situ electrochemical reduction and polymerization: tailoring redox energy density of the supercapacitor positive electrode. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1488-1494.	10.3	21
23	Synthesis of $\text{Li}_1\text{V}_3\text{O}_8$ via a Gel Precursor: Part II, from Xerogel to the Anhydrous Material. <i>Chemistry of Materials</i> , 2006, 18, 629-636.	6.7	19
24	Capacity fading on cycling nano size grains of $\text{Li}_1\text{V}_3\text{O}_8$ , electrochemical investigation. <i>Electrochimica Acta</i> , 2010, 55, 3979-3986.	5.2	18
25	Direct introduction of redox centers at activated carbon substrate based on acid-substituent-assisted diazotization. <i>Electrochemistry Communications</i> , 2012, 25, 124-127.	4.7	17
26	Chemical functionalization of activated carbon through radical and diradical intermediates. <i>Electrochemistry Communications</i> , 2013, 34, 14-17.	4.7	14
27	Peculiar Li-storage mechanism at graphene edges in turbostratic carbon black and their application in high energy Li-ion capacitor. <i>Journal of Power Sources</i> , 2018, 378, 628-635.	7.8	13
28	Redirected charge transport arising from diazonium grafting of carbon coated $\text{LiFePO}_4$ . <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22745-22753.	2.8	11
29	Engineered Electronic Contacts for Composite Electrodes in Li Batteries Using Thiophene-Based Molecular Junctions. <i>Chemistry of Materials</i> , 2015, 27, 4057-4065.	6.7	11
30	Interest of molecular functionalization for electrochemical storage. <i>Nano Research</i> , 2017, 10, 4175-4200.	10.4	11
31	Electrochemical Assessment of Indigo Carmine Dye in Lithium Metal Polymer Technology. <i>Molecules</i> , 2021, 26, 3079.	3.8	11
32	$\text{Li}_1\text{V}_3\text{O}_8$ Gel and Xerogel: a New Insight. <i>Chemistry of Materials</i> , 2004, 16, 4867-4869.	6.7	10
33	Ultrafast synthesis of $\text{Li}_1\text{V}_3\text{O}_8$ gel precursors for lithium battery applications. <i>Solid State Ionics</i> , 2009, 180, 1511-1516.	2.7	9
34	Crystal structure of the end product of electrochemical lithium intercalation in $\text{V}_2(\text{SO}_4)_3$ . <i>Journal of Materials Chemistry</i> , 1999, 9, 2809-2812.	6.7	7
35	Dual Electroactivity in a Covalent Organic Network with Mechanically Interlocked Pillar[5]arenes. <i>Chemistry - A European Journal</i> , 2021, 27, 9589-9596.	3.3	7
36	Effect of the Porous Texture of Activated Carbons on the Electrochemical Properties of Molecule-Grafted Carbon Products in Organic Media. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2289-A2295.	2.9	6

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37	Fabrication and performance of electrochemically grafted thiophene silicon nanoparticle anodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 324, 97-105.	7.8	6
38	Aluminum current collector for high voltage Li-ion battery. Part I: A benchmark study with statistical analysis. <i>Electrochemistry Communications</i> , 2021, 126, 107013.	4.7	5
39	Aluminum current collector for high voltage Li-ion battery. Part II: Benefit of the EnSafe primed current collector technology. <i>Electrochemistry Communications</i> , 2021, 126, 107008.	4.7	4
40	Powder diffraction data for fluorocomplexes of niobium IV: MNbF <sub>6</sub> (M=Ca, Mg, Cd, Zn). <i>Powder Diffraction</i> , 1998, 13, 163-165.	0.2	3
41	Operando discrimination of fast and slow active grains within a cycling electrode for lithium battery. <i>Electrochemistry Communications</i> , 2010, 12, 561-564.	4.7	3
42	Perspectives in Lithium Batteries. , 2015, , 191-232.		3
43	Aqueous Batteries: Dual Anion/Cation Reversible Insertion in a Bipyridinium/Diamide Triad as the Negative Electrode for Aqueous Batteries ( <i>Adv. Energy Mater.</i> 8/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870036.	19.5	1
44	Experimental and Theoretical Study of the Effect of Functionalized Pyrene Polymerization on Carbon Electrode Surfaces for Electrochemical Storage. <i>Batteries and Supercaps</i> , 2021, 4, 1018-1031.	4.7	0