

# Mario Wachtler

## List of Publications by Citations

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36  
papers

2,083  
citations

21  
h-index

38  
g-index

38  
ext. papers

2,218  
ext. citations

6.4  
avg, IF

4.62  
L-index

#	Paper	IF	Citations
36	Structured Silicon Anodes for Lithium Battery Applications. <i>Electrochemical and Solid-State Letters</i> , <b>2003</b> , 6, A75		313
35	Tin and tin-based intermetallics as new anode materials for lithium-ion cells. <i>Journal of Power Sources</i> , <b>2001</b> , 94, 189-193	8.9	293
34	Anodic materials for rechargeable Li-batteries. <i>Journal of Power Sources</i> , <b>2002</b> , 105, 151-160	8.9	230
33	Flammability of Li-Ion Battery Electrolytes: Flash Point and Self-Extinguishing Time Measurements. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A3084-A3097	3.9	173
32	Studies on the Anode/Electrolyte Interface in Lithium Ion Batteries. <i>Monatshefte für Chemie</i> , <b>2001</b> , 132, 473-486	1.4	136
31	Optical Properties of Rare-Earth Ions in Lead Germanate Glasses. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 2045-2052	3.8	118
30	A Safe, Low-Cost, and Sustainable Lithium-Ion Polymer Battery. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, A2138	3.9	79
29	Understanding the dilation and dilation relaxation behavior of graphite-based lithium-ion cells. <i>Journal of Power Sources</i> , <b>2016</b> , 317, 93-102	8.9	74
28	Carbon nanotubes as nanotexturing agents for high power supercapacitors based on seaweed carbons. <i>ChemSusChem</i> , <b>2011</b> , 4, 943-9	8.3	68
27	The effect of the binder morphology on the cycling stability of Li <sub>10</sub> S <sub>10</sub> composite electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>2001</b> , 510, 12-19	4.1	67
26	A study on PVdF-based SiO <sub>2</sub> -containing composite gel-type polymer electrolytes for lithium batteries. <i>Electrochimica Acta</i> , <b>2004</b> , 50, 357-361	6.7	66
25	Film formation in LiBOB-containing electrolytes. <i>Journal of Power Sources</i> , <b>2006</b> , 153, 396-401	8.9	58
24	Phonon sidebands and vibrational properties of Eu <sup>3+</sup> doped lead germanate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1997</b> , 217, 111-114	3.9	44
23	Nanotechnology for the progress of lithium batteries R&D. <i>Journal of Power Sources</i> , <b>2004</b> , 129, 90-95	8.9	42
22	The behaviour of graphite, carbon black, and Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> in LiBOB-based electrolytes. <i>Journal of Applied Electrochemistry</i> , <b>2006</b> , 36, 1199-1206	2.6	34
21	Magnesocene-Based Electrolytes: A New Class of Electrolytes for Magnesium Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14958-14962	16.4	33
20	Pyrolysis of hexa(phenyl)benzene derivatives: a molecular approach toward carbonaceous materials for Li-ion storage. <i>Journal of Power Sources</i> , <b>2005</b> , 139, 242-249	8.9	27

19	Synthesis and characterization of electroactive PEDOT-TEMPO polymers as potential cathode materials in rechargeable batteries. <i>Synthetic Metals</i> , <b>2018</b> , 243, 51-57	3.6	24
18	Electrochemical behaviour of Sn and Sn $\bar{\text{C}}$ composite electrodes in LiBOB containing electrolytes. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 349-354	8.9	24
17	Multi-phase formation induced by kinetic limitations in graphite-based lithium-ion cells: Analyzing the effects on dilation and voltage response. <i>Journal of Energy Storage</i> , <b>2017</b> , 10, 1-10	7.8	23
16	Morphology and texture of spheroidized natural and synthetic graphites. <i>Carbon</i> , <b>2017</b> , 111, 764-773	10.4	21
15	Determination of the safety level of an advanced lithium ion battery having a nanostructured Sn $\bar{\text{C}}$ anode, a high voltage LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode, and a polyvinylidene fluoride-based gel electrolyte. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 4194-4200	6.7	18
14	Site-selective spectroscopy of Eu <sup>3+</sup> doped lead germanate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 288, 114-120	3.9	18
13	Electrochemical stability of lithium salicylato-borates as electrolyte additives in Li-ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 239, 659-669	8.9	17
12	Influence of the solid electrolyte interphase on the performance of redox shuttle additives in Li-ion batteries I A rotating ring-disc electrode study. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 123-127	8.9	16
11	Laser Porosificated Silicon Anodes for Lithium Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701705	11.8	16
10	Fluorescence line narrowing spectroscopy of a lead germanate glass doped with Eu <sup>3+</sup> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>1998</b> , 54, 2157-2162	4.4	10
9	Magnesocene-Based Electrolytes: A New Class of Electrolytes for Magnesium Batteries. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 15182-15186	3.6	10
8	Ferrocene-functionalized polyheteroacenes for the use as cathode active material in rechargeable batteries.. <i>RSC Advances</i> , <b>2018</b> , 8, 14193-14200	3.7	9
7	Synthesis and Characterization of Guanidinium-Based Ionic Liquids as Possible Electrolytes in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A753-A761	3.9	8
6	Electrochemical Formation and Characterization of Surface Blocking Layers on Gold and Platinum by Oxygen Reduction in Mg(ClO <sub>4</sub> ) <sub>2</sub> in DMSO. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2037-A2046	3.9	6
5	Investigation of the Electrochemical Oxygen Reduction Reaction in Non-Aqueous, Magnesium-Ion-Containing Electrolytes for Magnesium Air Batteries. <i>ECS Transactions</i> , <b>2017</b> , 75, 3-12	1	3
4	Evaluation of Alloys Synthesized by Mechanical Alloying as Potential Anode Materials for Lithium-Ion Batteries. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2004</b> , 20-21, 263-268	0.2	2
3	Model Studies on Solid Electrolyte Interphase Formation on Graphite Electrodes in Ethylene Carbonate and Dimethyl Carbonate II: Graphite Powder Electrodes. <i>ChemElectroChem</i> , <b>2020</b> , 7, 4794-4809	4.3	2
2	Prospects for Improved Magnesocene-Based Magnesium Battery Electrolytes. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 1335-1343	5.6	0

1 Carbon and Graphite for Electrochemical Power Sources\* **2021**, 379-455