# Dominique G Guyomard

List of Publications by Year
in descending order



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|---|---|---|---|
| 257 papers | 14,792 citations | 17440 63 h-index | 22832 112 g-index |
| 261 all docs | 261 docs citations | 261 times ranked | 11008 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Synthesis Conditions and Oxygen Stoichiometry Effects on Li Insertion into the Spinel LiMn2â€‰Oâ€‰4. Journal of the Electrochemical Society, 1994, 141, 1421-1431. | 2.9 | 694 |
| 2 | Li Metalâ€Free Rechargeable LiMn2â€‰Oâ€‰4â€‰/â€‰Carbon Cells: Their Understanding and Optimization. Journal of the Electrochemical Society, 1992, 139, 937-948. | 2.9 | 577 |
| 3 | Structure and Stability of Sodium Intercalated Phases in Olivine FePO<sub>4</sub>. Chemistry of Materials, 2010, 22, 4126-4128. | 6.7 | 436 |
| 4 | Selfâ€Discharge of LiMn2â€‰Oâ€‰4/C Liâ€Ion Cells in Their Discharged State: Understanding by Means of Threeâ€Electrode Measurements. Journal of the Electrochemical Society, 1998, 145, 194-209. | 2.9 | 424 |
| 5 | Lithium-ion batteries â€“ Current state of the art and anticipated developments. Journal of Power Sources, 2020, 479, 228708. | 7.8 | 401 |
| 6 | Li Metalâ€Free Rechargeable Batteries Based on Li1â€‰+â€‰x Mn2â€‰Oâ€‰4 Cathodes â€‰(â€‰0â€‰â‰â€‰xâ€‰â‰â€‰ Journal of the Electrochemical Society, 1991, 138, 2864-2868. | 2.9 | 396 |
| 7 | The Li1+xMn2O4/C rocking-chair system: a review. Electrochimica Acta, 1993, 38, 1221-1231. | 5.2 | 392 |
| 8 | The carbon/Li1+xMn2O4 system. Solid State Ionics, 1994, 69, 222-237. | 2.7 | 334 |
| 9 | The failure mechanism of nano-sized Si-based negative electrodes for lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 6201. | 6.7 | 317 |
| 10 | Positive electrode materials with high operating voltage for lithium batteries: LiCryMn2 â^' yO4 (0 â‰ y â‰) Tj ETQq0 0 0 rgBT /Overloc | 2.7 | 293 |
| 11 | On the binding mechanism of CMC in Si negative electrodes for Li-ion batteries. Electrochemistry Communications, 2007, 9, 2801-2806. | 4.7 | 291 |
| 12 | A low-cost and high performance ball-milled Si-based negative electrode for high-energy Li-ion batteries. Energy and Environmental Science, 2013, 6, 2145. | 30.8 | 274 |
| 13 | Study of structural defects in ?-MnO2 by Raman spectroscopy. Journal of Raman Spectroscopy, 2002, 33, 223-228. | 2.5 | 261 |
| 14 | Silicon Composite Electrode with High Capacity and Long Cycle Life. Electrochemical and Solid-State Letters, 2009, 12, A215. | 2.2 | 261 |
| 15 | New electrolyte compositions stable over the 0 to 5 V voltage range and compatible with the Li1+xMn2O4/carbon Li-ion cells. Solid State Ionics, 1994, 69, 293-305. | 2.7 | 235 |
| 16 | Rechargeable Li1â€‰+â€‰x Mn2â€‰Oâ€‰4â€‰/â€‰Carbon Cells with a New Electrolyte Composition: Potentiostatic Studies and Application to Practical Cells. Journal of the Electrochemical Society, 1993, 140, 3071-3081. | 2.9 | 203 |
| 17 | Critical roles of binders and formulation at multiscales of silicon-based composite electrodes. Journal of Power Sources, 2015, 280, 533-549. | 7.8 | 201 |
| 18 | LiMBO3 (M=Mn, Fe, Co): synthesis, crystal structure and lithium deinsertion/insertion properties. Solid State Ionics, 2001, 139, 37-46. | 2.7 | 198 |

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|---|---|---|---|
| 19 | Ionic vs Electronic Power Limitations and Analysis of the Fraction of Wired Grains in LiFePO[sub 4] Composite Electrodes. Journal of the Electrochemical Society, 2010, 157, A885. | 2.9 | 153 |
| 20 | Electrochemically synthesized vanadium oxides as lithium insertion hosts. Electrochimica Acta, 1999, 45, 197-214. | 5.2 | 147 |
| 21 | Non-aqueous carbon black suspensions for lithium-based redox flow batteries: rheology and simultaneous rheo-electrical behavior. Physical Chemistry Chemical Physics, 2013, 15, 14476. | 2.8 | 145 |
| 22 | Design of Aqueous Processed Thick LiFePO[sub 4] Composite Electrodes for High-Energy Lithium Battery. Journal of the Electrochemical Society, 2009, 156, A133. | 2.9 | 128 |
| 23 | Lithium molybdenum nitride (LiMoN2): the first metallic layered nitride. Chemistry of Materials, 1992, 4, 928-937. | 6.7 | 124 |
| 24 | A comparative study of polyacrylic acid (PAA) and carboxymethyl cellulose (CMC) binders for Si-based electrodes. Electrochimica Acta, 2017, 258, 453-466. | 5.2 | 124 |
| 25 | From Solidâ€Solution Electrodes and the Rockingâ€Chair Concept to Today's Batteries. Angewandte Chemie - International Edition, 2020, 59, 534-538. | 13.8 | 124 |
| 26 | Low Temperature LiMn2â€‰Oâ€‰4 Spinel Films for Secondary Lithium Batteries. Journal of the Electrochemical Society, 1992, 139, 1845-1849. | 2.9 | 120 |
| 27 | Multiprobe Study of the Solid Electrolyte Interphase on Silicon-Based Electrodes in Full-Cell Configuration. Chemistry of Materials, 2016, 28, 2557-2572. | 6.7 | 116 |
| 28 | Critical Role of Polymeric Binders on the Electronic Transport Properties of Composites Electrode. Journal of the Electrochemical Society, 2006, 153, A679. | 2.9 | 110 |
| 29 | Optimizing the surfactant for the aqueous processing of LiFePO4 composite electrodes. Journal of Power Sources, 2010, 195, 2835-2843. | 7.8 | 109 |
| 30 | Nanostructured manganese dioxides: Synthesis and properties as supercapacitor electrode materials. Electrochimica Acta, 2009, 54, 1240-1248. | 5.2 | 108 |
| 31 | Toward fast and cost-effective ink-jet printing of solid electrolyte for lithium microbatteries. Journal of Power Sources, 2015, 274, 1085-1090. | 7.8 | 105 |
| 32 | The Li1+xMn2O4C system Materials and electrochemical aspects. Journal of Power Sources, 1995, 54, 103-108. | 7.8 | 103 |
| 33 | The Cr-Substituted Spinel Mn Oxides LiCryMn2â^'yO4(0â‰yâ‰1): Rietveld Analysis of the Structure Modifications Induced by the Electrochemical Lithium Deintercalation. Journal of Solid State Chemistry, 1997, 132, 372-381. | 2.9 | 103 |
| 34 | High voltage stable liquid electrolytes for Li1+xMn2O4/carbon rocking-chair lithium batteries. Journal of Power Sources, 1995, 54, 92-98. | 7.8 | 102 |
| 35 | Raising the redox potential in carboxyphenolate-based positive organic materials via cation substitution. Nature Communications, 2018, 9, 4401. | 12.8 | 101 |
| 36 | Lithium nâ€Doped Polyaniline as a Highâ€Performance Electroactive Material for Rechargeable Batteries. Angewandte Chemie - International Edition, 2017, 56, 1553-1556. | 13.8 | 99 |

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|---|---|---|---|
| 37 | Is LiFePO[sub 4] Stable in Water?. Electrochemical and Solid-State Letters, 2008, 11, A4. | 2.2 | 98 |
| 38 | Air Exposure Effect on LiFePO[sub 4]. Electrochemical and Solid-State Letters, 2008, 11, A12. | 2.2 | 98 |
| 39 | Reversible anion intercalation in a layered aromatic amine: a high-voltage host structure for organic batteries. Journal of Materials Chemistry A, 2016, 4, 6131-6139. | 10.3 | 97 |
| 40 | CMC as a binder in LiNi0.4Mn1.6O4 5V cathodes and their electrochemical performance for Li-ion batteries. Electrochimica Acta, 2012, 62, 77-83. | 5.2 | 96 |
| 41 | Ink-jet printed porous composite LiFePO 4 electrode from aqueous suspension for microbatteries. Journal of Power Sources, 2015, 287, 261-268. | 7.8 | 95 |
| 42 | New Composite Electrode Architecture and Improved Battery Performance from the Smart Use of Polymers and Their Properties. Advanced Materials, 2004, 16, 553-557. | 21.0 | 93 |
| 43 | New insights into the silicon-based electrode's irreversibility along cycle life through simple gravimetric method. Journal of Power Sources, 2012, 220, 180-184. | 7.8 | 93 |
| 44 | Critical Role of Silicon Nanoparticles Surface on Lithium Cell Electrochemical Performance Analyzed by FTIR, Raman, EELS, XPS, NMR, and BDS Spectroscopies. Journal of Physical Chemistry C, 2014, 118, 17318-17331. | 3.1 | 89 |
| 45 | Hybrid Silicaâ€"Polymer Ionogel Solid Electrolyte with Tunable Properties. Advanced Energy Materials, 2014, 4, 1301570. | 19.5 | 86 |
| 46 | MnO2 (Î±-, Î²-, Î³-) compounds prepared by hydrothermal-electrochemical synthesis: characterization, morphology, and lithium insertion behavior. Journal of Power Sources, 2003, 119-121, 226-231. | 7.8 | 85 |
| 47 | The Origin of Capacity Fading upon Lithium Cycling in Li[sub 1.1]V[sub 3]O[sub 8]. Journal of the Electrochemical Society, 2005, 152, A1660. | 2.9 | 84 |
| 48 | Solidâ€State Electrode Materials with Ionicâ€Liquid Properties for Energy Storage: the Lithium Solidâ€State Ionicâ€Liquid Concept.. Advanced Functional Materials, 2011, 21, 4073-4078. | 14.9 | 84 |
| 49 | Improvement of Electrode/Electrolyte Interfaces in High-Voltage Spinel Lithium-Ion Batteries by Using Glutaric Anhydride as Electrolyte Additive. Journal of Physical Chemistry C, 2014, 118, 4634-4648. | 3.1 | 83 |
| 50 | A Facile and Very Effective Method to Enhance the Mechanical Strength and the Cyclability of Siâ€Based Electrodes for Liâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1701787. | 19.5 | 80 |
| 51 | An electrochemically roughened Cu current collector for Si-based electrode in Li-ion batteries. Journal of Power Sources, 2013, 239, 308-314. | 7.8 | 78 |
| 52 | Spectroscopic Characterization of the SEI Layer Formed on Lithium Metal Electrodes in Phosphonium Bis(fluorosulfonyl)imide Ionic Liquid Electrolytes. ACS Applied Materials & Interfaces, 2018, 10, 6719-6729. | 8.0 | 77 |
| 53 | Electrochemical reduction of noble metal compounds in ethylene glycol. Solid State Sciences, 1999, 1, 47-51. | 0.7 | 73 |
| 54 | Influence of the morphology on the Li insertion properties of Li1.1V3O8. Journal of Materials Chemistry, 2003, 13, 921. | 6.7 | 69 |

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| 55 | Supercapacitor behavior of new substituted manganese dioxides. Journal of Power Sources, 2007, 165, 651-655. | 7.8 | 69 |
| 56 | LiTDI: A Highly Efficient Additive for Electrolyte Stabilization in Lithium-Ion Batteries. Chemistry of Materials, 2017, 29, 2254-2263. | 6.7 | 69 |
| 57 | Rocking-chair or lithium-ion rechargeable lithium batteries. Advanced Materials, 1994, 6, 408-412. | 21.0 | 67 |
| 58 | 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. Journal of the American Chemical Society, 2014, 136, 9144-9157. | 13.7 | 67 |
| 59 | Mechanism of Silicon Electrode Aging upon Cycling in Full Lithiumâ€ion Batteries. ChemSusChem, 2016, 9, 841-848. | 6.8 | 67 |
| 60 | New amorphous oxides as high capacity negative electrodes for lithium batteries: the LixMVO4 (M = Ni,) Tj ETQq0 0 0 rgBT /Overlock 10 | 7.8 | 66 |
| 61 | Nanosiliconâ€Based Thick Negative Composite Electrodes for Lithium Batteries with Graphene as Conductive Additive. Advanced Energy Materials, 2013, 3, 1351-1357. | 19.5 | 66 |
| 62 | Synthesis, Structures, Magnetic Properties, and Phase Transition of Manganese(II) Divanadate: Mn2V2O7. Journal of Solid State Chemistry, 1996, 121, 214-224. | 2.9 | 64 |
| 63 | Very High Surface Capacity Observed Using Si Negative Electrodes Embedded in Copper Foam as 3D Current Collectors. Advanced Energy Materials, 2014, 4, 1301718. | 19.5 | 64 |
| 64 | Multiscale electronic transport mechanism and true conductivities in amorphous carbonâ€“LiFePO<sub>4</sub>nanocomposites. Journal of Materials Chemistry, 2012, 22, 2641-2649. | 6.7 | 63 |
| 65 | Electronic and Ionic Wirings Versus the Insertion Reaction Contributions to the Polarization in LiFePO[sub 4] Composite Electrodes. Journal of the Electrochemical Society, 2010, 157, A1347. | 2.9 | 61 |
| 66 | Correlation between irreversible capacity and electrolyte solvents degradation probed by NMR in Si-based negative electrode of Li-ion cell. Electrochemistry Communications, 2013, 33, 72-75. | 4.7 | 59 |
| 67 | The 2D Rancieite-type manganic acid and its alkali-exchanged derivatives: Part I â€” Chemical characterization and thermal behavior. Solid State Ionics, 1995, 80, 299-306. | 2.7 | 58 |
| 68 | Aging of the LiFePO4 positive electrode interface in electrolyte. Journal of Power Sources, 2010, 195, 7415-7425. | 7.8 | 58 |
| 69 | Improvement of the lithium insertion properties of Li1.1V3O8. Solid State Ionics, 2006, 177, 311-315. | 2.7 | 57 |
| 70 | Effects of the Solvent Concentration (Solid Loading) on the Processing and Properties of the Composite Electrode. Journal of the Electrochemical Society, 2007, 154, A235. | 2.9 | 57 |
| 71 | A dualâ€“ion battery using diaminoâ€“rubicene as anionâ€“inserting positive electrode material. Electrochemistry Communications, 2016, 72, 64-68. | 4.7 | 56 |
| 72 | Hierarchical and Resilient Conductive Network of Bridged Carbon Nanotubes and Nanofibers for High-Energy Si Negative Electrodes. Electrochemical and Solid-State Letters, 2009, 12, A76. | 2.2 | 55 |

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| 73 | 'Chimie douce' synthesis and electrochemical properties of amorphous and crystallized LiNiVO4 vs. Li. Solid State Ionics, 1998, 107, 123-133. | 2.7 | 54 |
| 74 | The amorphous oxides MnV2O6 + Î´ (0 < Î´ < 1) as high capacity negative electrode materials for lithium batteries. Journal of Power Sources, 1997, 68, 698-703. | 7.8 | 52 |
| 75 | Surfactant for Enhanced Rheological, Electrical, and Electrochemical Performance of Suspensions for Semisolid Redox Flow Batteries and Supercapacitors. ChemPlusChem, 2015, 80, 396-401. | 2.8 | 52 |
| 76 | Chemical and electrochemical insertion of Na into the spinel Î»-MnO2 phase. Solid State Ionics, 1992, 57, 113-120. | 2.7 | 50 |
| 77 | New Amorphous Mixed Transition Metal Oxides and Their Li Derivatives:Â Synthesis, Characterization, and Electrochemical Behavior. Chemistry of Materials, 1999, 11, 2948-2959. | 6.7 | 50 |
| 78 | Moisture driven aging mechanism of LiFePO4 subjected to air exposure. Electrochemistry Communications, 2010, 12, 238-241. | 4.7 | 50 |
| 79 | An update of the Li metal-free rechargeable battery based on Li1+Ï‡Mn2O4 cathodes and carbon anodes. Journal of Power Sources, 1993, 44, 689-700. | 7.8 | 49 |
| 80 | Stability of LiFePO4 in water and consequence on the Li battery behaviour. Ionics, 2008, 14, 583-587. | 2.4 | 49 |
| 81 | A Multiscale Description of the Electronic Transport within the Hierarchical Architecture of a Composite Electrode for Lithium Batteries. Advanced Functional Materials, 2009, 19, 2749-2758. | 14.9 | 49 |
| 82 | Aging of the LiNi[sub 1â^•2]Mn[sub 1â^•2]O[sub 2] Positive Electrode Interface in Electrolyte. Journal of the Electrochemical Society, 2009, 156, C180. | 2.9 | 49 |
| 83 | Formulation of flowable anolyte for redox flow batteries: Rheo-electrical study. Journal of Power Sources, 2015, 274, 424-431. | 7.8 | 49 |
| 84 | Synthesis of boron-doped Si particles by ball milling and application in Li-ion batteries. Journal of Power Sources, 2012, 202, 262-268. | 7.8 | 48 |
| 85 | Threshold-like dependence of silicon-based electrode performance on active mass loading and nature of carbon conductive additive. Electrochimica Acta, 2016, 215, 276-288. | 5.2 | 47 |
| 86 | The 2D Rancieite-type manganic acid and its alkali-exchanged derivatives: Part II â€” Electrochemical behavior. Solid State Ionics, 1995, 80, 307-316. | 2.7 | 45 |
| 87 | Detection of surface layers using 7Li MAS NMR. Journal of Materials Chemistry, 2008, 18, 4266. | 6.7 | 45 |
| 88 | Nanoscale Chemical Evolution of Silicon Negative Electrodes Characterized by Low-Loss STEM-EELS. Nano Letters, 2016, 16, 7381-7388. | 9.1 | 45 |
| 89 | Tailoring the Binder of Composite Electrode for Battery Performance Optimization. Electrochemical and Solid-State Letters, 2005, 8, A17. | 2.2 | 44 |
| 90 | Electronic vs Ionic Limitations to Electrochemical Performance in Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub>-Based Organic Suspensions for Lithium-Redox Flow Batteries. Journal of the Electrochemical Society, 2014, 161, A693-A699. | 2.9 | 44 |

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| 91 | Influence of the Cr Content on the Li Deinsertion Behavior of the LiCr[sub y]Mn[sub 2â^'y]O[sub 4]â€,(0â‰yâ‰1) Compounds: I. Separation of Bulk and Superficial Processes at High Voltage. Journal of the Electrochemical Society, 2001, 148, A812. | 2.9 | 43 |
| 92 | One-Step Electrochemical Synthesis of Î±-MnO[sub 2] and Î±â‹…Î³-MnO[sub 2] Compounds for Lithium Batteries. Electrochemical and Solid-State Letters, 2001, 4, A180. | 2.2 | 43 |
| 93 | Improvement of intermetallics electrochemical behavior by playing with the composite electrode formulation. Journal of Materials Chemistry, 2011, 21, 5076. | 6.7 | 42 |
| 94 | Relationship between surface chemistry and electrochemical behavior of LiNi1/2Mn1/2O2 positive electrode in a lithium-ion battery. Journal of Power Sources, 2011, 196, 4791-4800. | 7.8 | 42 |
| 95 | Full Organic Aqueous Battery Based on TEMPO Small Molecule with Millimeter-Thick Electrodes. Chemistry of Materials, 2019, 31, 1869-1880. | 6.7 | 42 |
| 96 | Synthesis and Structure of NaMn3(PO4)(HPO4)2, an Unoxidized Variant of the Alluaudite Structure Type. Journal of Solid State Chemistry, 1995, 115, 240-246. | 2.9 | 41 |
| 97 | Quantitative MAS NMR characterization of the LiMn1/2Ni1/2O2 electrode/electrolyte interphase. Solid State Nuclear Magnetic Resonance, 2012, 42, 51-61. | 2.3 | 41 |
| 98 | Dual Anionâ€"Cation Reversible Insertion in a Bipyridiniumâ€"Diamide Triad as the Negative Electrode for Aqueous Batteries. Advanced Energy Materials, 2018, 8, 1701988. | 19.5 | 41 |
| 99 | Î³-MnO2 for Li batteries. Journal of Power Sources, 1999, 81-82, 656-660. | 7.8 | 40 |
| 100 | Electrochemical reduction of noble metal species in ethylene glycol at platinum and glassy carbon rotating disk electrodes. Solid State Ionics, 1999, 126, 337-348. | 2.7 | 40 |
| 101 | Thermomechanical Polymer Binder Reactivity with Positive Active Materials for Li Metal Polymer and Li-Ion Batteries: An XPS and XPS Imaging Study. ACS Applied Materials & Interfaces, 2019, 11, 18368-18376. | 8.0 | 40 |
| 102 | Structural changes in surface and bulk LiNi0.5Mn0.5O2 during electrochemical reaction on epitaxial thin-film electrodes characterized by in situ X-ray scattering. Physical Chemistry Chemical Physics, 2010, 12, 3815. | 2.8 | 39 |
| 103 | More on the reactivity of olivine LiFePO4 nano-particles with atmosphere at moderate temperature. Journal of Power Sources, 2011, 196, 2155-2163. | 7.8 | 39 |
| 104 | Effect of glutaric anhydride additive on the LiNi0.4Mn1.6O4 electrode/electrolyte interface evolution: A MAS NMR and TEM/EELS study. Journal of Power Sources, 2012, 215, 170-178. | 7.8 | 39 |
| 105 | Cation Substitution in the Alluaudite Structure Type: Synthesis and Structure of AgMn3(PO4)(HPO4)2. Journal of Solid State Chemistry, 1995, 117, 206-212. | 2.9 | 38 |
| 106 | Synthesis of nanosized Si particles via a mechanochemical solidâ€"liquid reaction and application in Li-ion batteries. Solid State Ionics, 2007, 178, 1297-1303. | 2.7 | 38 |
| 107 | Abnormal operando structural behavior of sodium battery material: Influence of dynamic on phase diagram of NaxFePO4. Electrochemistry Communications, 2014, 38, 104-106. | 4.7 | 38 |
| 108 | How silicon electrodes can be calendered without altering their mechanical strength and cycle life. Journal of Power Sources, 2017, 371, 136-147. | 7.8 | 38 |

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| 109 | High-Capacity Retention of Si Anodes Using a Mixed Lithium/Phosphonium Bis(fluorosulfonyl)imide Ionic Liquid Electrolyte. ACS Energy Letters, 2017, 2, 1804-1809. | 17.4 | 38 |
| 110 | Sol Gel Synthesis of Li1+Î±V3O8. 1. From Precursors to Xerogel. Chemistry of Materials, 2005, 17, 2276-2283. | 6.7 | 37 |
| 111 | Electrode/Electrolyte Interface Studies in Lithium Batteries Using NMR. Electrochemical Society Interface, 2011, 20, 61-67. | 0.4 | 37 |
| 112 | In situ redox functionalization of composite electrodes for high powerâ€"high energy electrochemical storage systems via a non-covalent approach. Energy and Environmental Science, 2012, 5, 5379-5386. | 30.8 | 37 |
| 113 | Cascadeâ€Type Prelithiation Approach for Liâ€Ion Capacitors. Advanced Energy Materials, 2019, 9, 1900078. | 19.5 | 37 |
| 114 | Nanofibrous Î±-, Î²-, Î³- and Î±â‹…Î³-Manganese Dioxides Prepared by the Hydrothermal-Electrochemical Technique. Journal of the Electrochemical Society, 2003, 150, D135. | 2.9 | 36 |
| 115 | Valence electron energy-loss spectroscopy of silicon negative electrodes for lithium batteries. Physical Chemistry Chemical Physics, 2010, 12, 220-226. | 2.8 | 36 |
| 116 | Brownian Dynamics Simulations of Colloidal Suspensions Containing Polymers as Precursors of Composite Electrodes for Lithium Batteries. Langmuir, 2012, 28, 10713-10724. | 3.5 | 36 |
| 117 | Optimizing lithium battery performance from a tailor-made processing of the positive composite electrode. Journal of Physics and Chemistry of Solids, 2006, 67, 1275-1280. | 4.0 | 35 |
| 118 | Relationships between processing, morphology and discharge capacity of the composite electrode. Journal of Power Sources, 2007, 174, 716-719. | 7.8 | 34 |
| 119 | From Si wafers to cheap and efficient Si electrodes for Li-ion batteries. Journal of Power Sources, 2014, 256, 32-36. | 7.8 | 34 |
| 120 | A combined X-ray and neutron Rietveld study of the chemically lithiated electrode materials Li2.7V3O8 and Li4.8V3O8. Journal of Solid State Chemistry, 2005, 178, 22-27. | 2.9 | 33 |
| 121 | A rechargeable lithium/quinone battery using a commercial polymer electrolyte. Electrochemistry Communications, 2015, 55, 22-25. | 4.7 | 33 |
| 122 | Numerical and Experimental Study of Suspensions Containing Carbon Blacks Used as Conductive Additives in Composite Electrodes for Lithium Batteries. Langmuir, 2014, 30, 2660-2669. | 3.5 | 32 |
| 123 | 7Li and51V MAS NMR Study of the Electrochemical Behavior of Li1+xV3O8. Chemistry of Materials, 2004, 16, 2725-2733. | 6.7 | 31 |
| 124 | Influence of the carboxymethyl cellulose binder on the multiscale electronic transport in carbonâ€"LiFePO4 nanocomposites. Journal of Materials Chemistry, 2012, 22, 24057. | 6.7 | 31 |
| 125 | The potassium niobyl cyclotetrasilicate K2(NbO)2Si4O12. Journal of Solid State Chemistry, 1992, 98, 128-132. | 2.9 | 30 |
| 126 | Multiscale electronic transport in Li1+xNi1/3â^'uCo1/3â^'vMn1/3â^'wO2: a broadband dielectric study from 40 Hz to 10 GHz. Physical Chemistry Chemical Physics, 2013, 15, 19790. | 2.8 | 30 |

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| 127 | Carbon nanofibers improve both the electronic and ionic contributions of the electrochemical performance of composite electrodes. Journal of Power Sources, 2011, 196, 8494-8499. | 7.8 | 29 |
| 128 | Evolution of the LiFePO4 positive electrode interface along cycling monitored by MAS NMR. Journal of Power Sources, 2013, 224, 50-58. | 7.8 | 28 |
| 129 | Understanding the Structure of Electrodes in Li-Ion Batteries: A Numerical Study. Journal of the Electrochemical Society, 2015, 162, A1485-A1492. | 2.9 | 28 |
| 130 | From Solidâ€Solution Electrodes and the Rockingâ€Chair Concept to Today's Batteries. Angewandte Chemie, 2020, 132, 542-546. | 2.0 | 28 |
| 131 | Characterization of interphases appearing on LiNi0.5Mn0.5O2 using 7Li MAS NMR. Journal of Power Sources, 2009, 189, 557-560. | 7.8 | 26 |
| 132 | Influence of structural defects on the insertion behavior of Î³-MnO2: comparison of H+ and Li+. Solid State Ionics, 2001, 140, 223-232. | 2.7 | 25 |
| 133 | Lowering interfacial chemical reactivity of oxide materials for lithium batteries. A molecular grafting approach. Journal of Materials Chemistry, 2009, 19, 4771. | 6.7 | 25 |
| 134 | Synergistic Effect in Carbon Coated LiFePO<sub>4</sub>for High Yield Spontaneous Grafting of Diazonium Salt. Structural Examination at the Grain Agglomerate Scale. Journal of the American Chemical Society, 2013, 135, 11614-11622. | 13.7 | 25 |
| 135 | Structural changes of a Li/S rechargeable cell in Lithium Metal Polymer technology. Journal of Power Sources, 2013, 241, 249-254. | 7.8 | 25 |
| 136 | Nanoscale compositional changes during first delithiation of Si negative electrodes. Journal of Power Sources, 2013, 227, 237-242. | 7.8 | 25 |
| 137 | CMC-citric acid Cu(II) cross-linked binder approach to improve the electrochemical performance of Si-based electrodes. Electrochimica Acta, 2019, 304, 495-504. | 5.2 | 24 |
| 138 | K<sub>2</sub>(NbO)<sub>2</sub>Si<sub>4</sub>O<sub>12</sub>: A new material for non-linear optics. Ferroelectrics, 1991, 124, 61-66. | 0.6 | 23 |
| 139 | Î³-MnO2 for Li batteries. Journal of Power Sources, 1999, 81-82, 661-665. | 7.8 | 23 |
| 140 | Electrochemical Synthesis of Beta- and Gamma-Manganese Dioxides under Hydrothermal Conditions. Electrochemical and Solid-State Letters, 2001, 4, D1. | 2.2 | 23 |
| 141 | Editorsâ€™ Choiceâ€"Understanding the Superior Cycling Performance of Si Anode in Highly Concentrated Phosphonium-Based Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2020, 167, 120520. | 2.9 | 23 |
| 142 | On a new calcium vanadate: synthesis, structure and Li insertion behavior. Journal of Solid State Chemistry, 2003, 172, 116-122. | 2.9 | 22 |
| 143 | A primed current collector for high performance carbon-coated LiFePO4 electrodes with no carbon additive. Journal of Power Sources, 2018, 406, 7-17. | 7.8 | 22 |
| 144 | Intermixed Cationâ€"Anion Aqueous Battery Based on an Extremely Fast and Longâ€Cycling Diâ€Block Bipyridiniumâ€"Naphthalene Diimide Oligomer. Advanced Energy Materials, 2019, 9, 1803688. | 19.5 | 22 |

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| 145 | Influence of the Cr Content on the Electrochemical Behavior of the LiCr[sub y]Mn[sub 2â^'y]O[sub 4] (0â‰yâ‰1) Compounds: III. Galvanostatic Study of Bulk and Superficial Processes. Journal of the Electrochemical Society, 2001, 148, A826. | 2.9 | 21 |
| 146 | Novel architecture of composite electrode for optimization of lithium battery performance. Journal of Power Sources, 2006, 157, 438-442. | 7.8 | 21 |
| 147 | Elucidating the LiFePO4 air aging mechanism to predict its electrochemical performance. Journal of Materials Chemistry, 2011, 21, 18575. | 6.7 | 21 |
| 148 | Degradation diagnosis of aged Li4Ti5O12/LiFePO4 batteries. Journal of Power Sources, 2014, 267, 744-752. | 7.8 | 21 |
| 149 | Tuning the Formation and Structure of the Silicon Electrode/Ionic Liquid Electrolyte Interphase in Superconcentrated Ionic Liquids. ACS Applied Materials & Interfaces, 2021, 13, 28281-28294. | 8.0 | 21 |
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