

Glenn G Amatucci

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,463
citations

516215

16
h-index

525886

27
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33
all docs

33
docs citations

33
times ranked

2191
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | High-Power Nanostructured LiMn _{2-x} Ni _x O ₄ High-Voltage Lithium-Ion Battery Electrode Materials: Electrochemical Impact of Electronic Conductivity and Morphology. Chemistry of Materials, 2006, 18, 3585-3592. | 3.2 | 377 |
| 2 | Small-scale energy harvesting through thermoelectric, vibration, and radiofrequency power conversion. Journal of Applied Physics, 2008, 103, . | 1.1 | 288 |
| 3 | Revisiting metal fluorides as lithium-ion battery cathodes. Nature Materials, 2021, 20, 841-850. | 13.3 | 109 |
| 4 | Formation, dynamics, and implication of solid electrolyte interphase in high voltage reversible conversion fluoride nanocomposites. Journal of Materials Chemistry, 2010, 20, 4149. | 6.7 | 96 |
| 5 | Electrolyte-Induced Surface Transformation and Transition-Metal Dissolution of Fully Delithiated LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ . Langmuir, 2017, 33, 9333-9353. | 1.6 | 70 |
| 6 | Ionic Conduction in Cubic Na ₃ TiP ₃ O ₉ N, a Secondary Na-Ion Battery Cathode with Extremely Low Volume Change. Chemistry of Materials, 2014, 26, 3295-3305. | 3.2 | 68 |
| 7 | Revisiting the charge compensation mechanisms in LiNi _{0.8} Co _{0.2} Al _y O ₂ systems. Materials Horizons, 2019, 6, 2112-2123. | 6.4 | 62 |
| 8 | FeO _{0.7} F _{1.3} /C Nanocomposite as a High-Capacity Cathode Material for Sodium-Ion Batteries. Advanced Functional Materials, 2015, 25, 696-703. | 7.8 | 59 |
| 9 | Structure Stabilization by Mixed Anions in Oxyfluoride Cathodes for High-Energy Lithium Batteries. ACS Nano, 2015, 9, 10076-10084. | 7.3 | 54 |
| 10 | How Bulk Sensitive is Hard X-ray Photoelectron Spectroscopy: Accounting for the Cathode-Electrolyte Interface when Addressing Oxygen Redox. Journal of Physical Chemistry Letters, 2020, 11, 2106-2112. | 2.1 | 36 |
| 11 | Methyl modified siloxane melting gels for hydrophobic films. Journal of Sol-Gel Science and Technology, 2010, 53, 272-279. | 1.1 | 34 |
| 12 | Phenyl-Substituted Siloxane Hybrid Gels that Soften Below 140°C. Journal of the American Ceramic Society, 2009, 92, 36-40. | 1.9 | 33 |
| 13 | Distinction between Intrinsic and X-ray-Induced Oxidized Oxygen States in Li-Rich 3d Layered Oxides and LiAlO ₂ . Journal of Physical Chemistry C, 2019, 123, 13201-13207. | 1.5 | 33 |
| 14 | Phase Evolution and Degradation Modes of Li _x Ni _{1-y} Co _y Al _z O ₂ Electrodes Cycled Near Complete Delithiation. Chemistry of Materials, 2018, 30, 7545-7574. | 3.0 | 30 |
| 15 | Surface Chemistry Dependence on Aluminum Doping in Ni-rich LiNi _{0.8} Co _{0.2} Al _y O ₂ Cathodes. Scientific Reports, 2019, 9, 17720. | 1.6 | 25 |
| 16 | Organic-inorganic sol-gel thick films for humidity barriers. Journal of Materials Research, 2008, 23, 2084-2090. | 1.2 | 20 |
| 17 | Atomic Structure of Surface-Densified Phases in Ni-Rich Layered Compounds. ACS Applied Materials & Interfaces, 2021, 13, 17478-17486. | 4.0 | 13 |
| 18 | Fundamental insights about interlayer cation migration in Li-ion electrodes at high states of charge. Journal of Materials Chemistry A, 2019, 7, 11996-12007. | 5.2 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | A Phase-Field Model and Simulation of Kinetically Asymmetric Ternary Conversion-Reconversion Transformation in Battery Electrodes. <i>Journal of Phase Equilibria and Diffusion</i> , 2016, 37, 86-99. | 0.5 | 11 |
| 20 | Investigation of stainless steel pickling liquor as a precursor for high Capacity battery electrode materials. <i>RSC Advances</i> , 2014, 4, 57098-57110. | 1.7 | 10 |
| 21 | Stabilized iron fluoride cathodes. <i>Nature Materials</i> , 2019, 18, 1275-1276. | 13.3 | 7 |
| 22 | EELS compositional and valence mapping in iron fluoride-carbon nanocomposites. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1. | 0.8 | 5 |
| 23 | Mapping Competitive Reduction upon Charging in $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Primary Particles. <i>Chemistry of Materials</i> , 2020, 32, 6161-6175. | 3.2 | 5 |
| 24 | Impact of Surface Chemistry on the Electrochemical Performance of LiCoO_2 . <i>Materials Research Society Symposia Proceedings</i> , 2006, 972, 1. | 0.1 | 2 |
| 25 | Structure and Electrochemistry of Carbon-Bromine Nanocomposite Electrodes for Electrochemical Energy Storage. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1127, 1. | 0.1 | 2 |
| 26 | Activated Carbons for High Power Energy Storage: Below the Surface of Non-Faradaic Reactions. <i>Materials Research Society Symposia Proceedings</i> , 2006, 973, 1. | 0.1 | 1 |
| 27 | Discovering a Novel Sodiation in FeF_2 Electrodes for Sodium-Ion Batteries. <i>Microscopy and Microanalysis</i> , 2014, 20, 490-491. | 0.2 | 1 |
| 28 | Carbon-Halide Nanocomposites for Asymmetric Hybrid Supercapacitors. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1056, 1. | 0.1 | 0 |
| 29 | Transport in Polyiodide Networks of a Self-Assembled Lithium Iodide Battery. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1126, 1. | 0.1 | 0 |
| 30 | Microporous Carbon-halide Nanocomposites Electrodes for Symmetric and Asymmetric Capacitor. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1100, 6041. | 0.1 | 0 |
| 31 | Probing the Local Chemical and Structural Ordering of Iron Oxyfluoride. <i>Microscopy and Microanalysis</i> , 2014, 20, 430-431. | 0.2 | 0 |
| 32 | Sodium-Ion Batteries: $\text{FeO}_{0.7}\text{F}_{1.3}/\text{C}$ Nanocomposite as a High-Capacity Cathode Material for Sodium-Ion Batteries (<i>Adv. Funct. Mater.</i> 5/2015). <i>Advanced Functional Materials</i> , 2015, 25, 823-823. | 7.8 | 0 |