

Glenn G Amatucci

List of Publications by Year in descending order

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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	Revisiting metal fluorides as lithium-ion battery cathodes. <i>Nature Materials</i> , 2021, 20, 841-850.	13.3	109
2	Atomic Structure of Surface-Densified Phases in Ni-Rich Layered Compounds. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17478-17486.	4.0	13
3	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
4	How Bulk Sensitive is Hard X-ray Photoelectron Spectroscopy: Accounting for the Cathode-Electrolyte Interface when Addressing Oxygen Redox. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2106-2112.	2.1	36
5	Revisiting the charge compensation mechanisms in $\text{LiNi}_{0.8}\text{Co}_{0.2}\text{Al}_y\text{O}_2$ systems. <i>Materials Horizons</i> , 2019, 6, 2112-2123.	6.4	62
6	Distinction between Intrinsic and X-ray-Induced Oxidized Oxygen States in Li-Rich 3d Layered Oxides and LiAlO_2 . <i>Journal of Physical Chemistry C</i> , 2019, 123, 13201-13207.	1.5	33
7	Fundamental insights about interlayer cation migration in Li-ion electrodes at high states of charge. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11996-12007.	5.2	12
8	Stabilized iron fluoride cathodes. <i>Nature Materials</i> , 2019, 18, 1275-1276.	13.3	7
9	Surface Chemistry Dependence on Aluminum Doping in Ni-rich $\text{LiNi}_{0.8}\text{Co}_{0.2}\text{Al}_y\text{O}_2$ Cathodes. <i>Scientific Reports</i> , 2019, 9, 17720.	1.6	25
10	Phase Evolution and Degradation Modes of $\text{Li}_{1-x}\text{Ni}_x\text{O}_2$ Electrodes Cycled Near Complete Delithiation. <i>Chemistry of Materials</i> , 2018, 30, 7545-7574.	3.0	30
11	Electrolyte-Induced Surface Transformation and Transition-Metal Dissolution of Fully Delithiated $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$. <i>Langmuir</i> , 2017, 33, 9333-9353.	1.6	70
12	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
13	$\text{FeO}_{0.7}\text{F}_{1.3}/\text{C}$ Nanocomposite as a High-Capacity Cathode Material for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2015, 25, 696-703.	7.8	59
14	Sodium-Ion Batteries: $\text{FeO}_{0.7}\text{F}_{1.3}/\text{C}$ Nanocomposite as a High-Capacity Cathode Material for Sodium-Ion Batteries (Adv. Funct. Mater. 5/2015). <i>Advanced Functional Materials</i> , 2015, 25, 823-823.	7.8	0
15	Structure Stabilization by Mixed Anions in Oxyfluoride Cathodes for High-Energy Lithium Batteries. <i>ACS Nano</i> , 2015, 9, 10076-10084.	7.3	54
16	Ionic Conduction in Cubic $\text{Na}_3\text{TiP}_3\text{O}_9\text{N}$, a Secondary Na-Ion Battery Cathode with Extremely Low Volume Change. <i>Chemistry of Materials</i> , 2014, 26, 3295-3305.	3.2	68
17	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
18	Probing the Local Chemical and Structural Ordering of Iron Oxyfluoride. <i>Microscopy and Microanalysis</i> , 2014, 20, 430-431.	0.2	0

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19	Discovering a Novel Sodiation in FeF ₂ Electrodes for Sodium-Ion Batteries. <i>Microscopy and Microanalysis</i> , 2014, 20, 490-491.	0.2	1
20	EELS compositional and valence mapping in iron fluoride-carbon nanocomposites. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	5
21	Methyl modified siloxane melting gels for hydrophobic films. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 272-279.	1.1	34
22	Formation, dynamics, and implication of solid electrolyte interphase in high voltage reversible conversion fluoride nanocomposites. <i>Journal of Materials Chemistry</i> , 2010, 20, 4149.	6.7	96
23	Phenyl-Substituted Siloxane Hybrid Gels that Soften Below 140°C. <i>Journal of the American Ceramic Society</i> , 2009, 92, 36-40.	1.9	33
24	Small-scale energy harvesting through thermoelectric, vibration, and radiofrequency power conversion. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	288
25	Organic-inorganic sol-gel thick films for humidity barriers. <i>Journal of Materials Research</i> , 2008, 23, 2084-2090.	1.2	20
26	Transport in Polyiodide Networks of a Self-Assembled Lithium Iodide Battery. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1126, 1.	0.1	0
27	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
28	Microporous Carbon-halide Nanocomposites Electrodes for Symmetric and Asymmetric Capacitor. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1100, 6041.	0.1	0
29	Carbon-Halide Nanocomposites for Asymmetric Hybrid Supercapacitors. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1056, 1.	0.1	0
30	High-Power Nanostructured LiMn _{2-x} Ni _x O ₄ High-Voltage Lithium-Ion Battery Electrode Materials: Electrochemical Impact of Electronic Conductivity and Morphology. <i>Chemistry of Materials</i> , 2006, 18, 3585-3592.	3.2	377
31	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
32	Impact of Surface Chemistry on the Electrochemical Performance of LiCoO ₂ . <i>Materials Research Society Symposia Proceedings</i> , 2006, 972, 1.	0.1	2