

Mario Marinaro

List of Publications by Year in descending order

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41
papers

1,128
citations

331670

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33
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42
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docs citations

42
times ranked

1665
citing authors

#	ARTICLE	IF	CITATIONS
1	Bringing forward the development of battery cells for automotive applications: Perspective of R&D activities in China, Japan, the EU and the USA. <i>Journal of Power Sources</i> , 2020, 459, 228073.	7.8	109
2	A new approach for compensating the irreversible capacity loss of high-energy Si/C LiNi _{0.5} Mn _{1.5} O ₄ lithium-ion batteries. <i>Journal of Power Sources</i> , 2017, 351, 35-44.	7.8	80
3	Low temperature behaviour of TiO ₂ rutile as negative electrode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 9825-9829.	7.8	61
4	Toward pre-lithiated high areal capacity silicon anodes for Lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 206, 99-107.	5.2	61
5	Analysis of the effect of applying external mechanical pressure on next generation silicon alloy lithium-ion cells. <i>Electrochimica Acta</i> , 2019, 306, 387-395.	5.2	52
6	High-stability graphene nano sheets/SnO ₂ composite anode for lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 137, 228-234.	5.2	51
7	High performance 1.2ÂAh Si-alloy/Graphite LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ prototype Li-ion battery. <i>Journal of Power Sources</i> , 2017, 357, 188-197.	7.8	44
8	Study of Water-Based Lithium Titanate Electrode Processing: The Role of pH and Binder Molecular Structure. <i>Polymers</i> , 2016, 8, 276.	4.5	40
9	Magnesium-Based Electrolytes: A New Class of Electrolytes for Magnesium Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14958-14962.	13.8	39
10	Comprehensive Aging Analysis of Volumetric Constrained Lithium-Ion Pouch Cells with High Concentration Silicon-Alloy Anodes. <i>Energies</i> , 2018, 11, 2948.	3.1	39
11	Improved low-temperature electrochemical performance of Li ₄ Ti ₅ O ₁₂ composite anodes for Li-ion batteries. <i>Electrochimica Acta</i> , 2013, 109, 207-213.	5.2	36
12	A newly designed Cu/Super-P composite for the improvement of low-temperature performances of graphite anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 222, 66-71.	7.8	32
13	New insights about the stability of lithium bis(trifluoromethane)sulfonimide-tetraglyme as electrolyte for Li-O ₂ batteries. <i>Electrochimica Acta</i> , 2013, 108, 795-800.	5.2	32
14	Addressing the energy sustainability of biowaste-derived hard carbon materials for battery electrodes. <i>Green Chemistry</i> , 2018, 20, 1527-1537.	9.0	32
15	Importance of Reaction Kinetics and Oxygen Crossover in aprotic Li-O ₂ Batteries Based on a Dimethyl Sulfoxide Electrolyte. <i>ChemSusChem</i> , 2015, 8, 3139-3145.	6.8	31
16	Mechanical behavior of Silicon-Graphite pouch cells under external compressive load: Implications and opportunities for battery pack design. <i>Journal of Power Sources</i> , 2020, 451, 227774.	7.8	31
17	TiO ₂ Nanoparticles for Li-Ion Battery Anodes: Mitigation of Growth and Irreversible Capacity Using LiOH and NaOH. <i>Chemistry of Materials</i> , 2015, 27, 119-126.	6.7	25
18	Influence of Li-Salt Concentration on Redox Potential of Lithium Metal and Electrochemistry of Ferrocene in DMSO-Based Electrolytes. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1574-A1579.	2.9	25

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19	Probing the characteristics of casein as green binder for non-aqueous electrochemical double layer capacitors' electrodes. <i>Journal of Power Sources</i> , 2016, 326, 672-679.	7.8	24
20	Influence of the Molecular Weight of Polyacrylic Acid Binder on Performance of Si Alloy/Graphite Composite Anodes for Lithium-ion Batteries. <i>Energy Technology</i> , 2018, 6, 2256-2263.	3.8	24
21	Through the Maze of Multivalent-ion Batteries: A Critical Review on the Status of the Research on Cathode Materials for Mg ²⁺ and Ca ²⁺ Ions Insertion. <i>Batteries and Supercaps</i> , 2021, 4, 1221-1251.	4.7	24
22	Microwave-assisted synthesis of carbon (Super-P) supported copper nanoparticles as conductive agent for LiTi ₅ O ₁₂ anodes for Lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 89, 555-560.	5.2	22
23	Au-coated carbon cathodes for improved oxygen reduction and evolution kinetics in aprotic Li-O ₂ batteries. <i>Electrochemistry Communications</i> , 2013, 37, 53-56.	4.7	20
24	Electrical Characterization and Micro X-ray Computed Tomography Analysis of Next-Generation Silicon Alloy Lithium-Ion Cells. <i>World Electric Vehicle Journal</i> , 2018, 9, 43.	3.0	19
25	Improved Li-Metal Cycling Performance in High Concentrated Electrolytes for Li ₂ O Batteries. <i>ChemElectroChem</i> , 2018, 5, 2758-2766.	3.4	19
26	Quantitative Analysis of Consumption of Fluoroethylene Carbonate Additives on Silicon Alloy Anodes. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2467-A2469.	2.9	18
27	Stripping and Plating a Magnesium Metal Anode in Bromide-Based Non-Nucleophilic Electrolytes. <i>ChemSusChem</i> , 2020, 13, 3530-3538.	6.8	18
28	Au-coated carbon electrodes for aprotic Li-O ₂ batteries with extended cycle life: The key issue of the Li-ion source. <i>Journal of Power Sources</i> , 2015, 278, 156-162.	7.8	17
29	Study of the Binder Influence on Expansion/Contraction Behavior of Silicon Alloy Negative Electrodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 160537.	2.9	17
30	An <i>In Situ</i> SEM-FIB-Based Method for Contrast Enhancement and Tomographic Reconstruction for Structural Quantification of Porous Carbon Electrodes. <i>Microscopy and Microanalysis</i> , 2014, 20, 1576-1580.	0.4	13
31	Study on the stability of Li ₂ MnSiO ₄ cathode material in different electrolyte systems for Li-ion batteries. <i>Electrochimica Acta</i> , 2015, 176, 679-688.	5.2	12
32	Magnesium-Based Electrolytes: A New Class of Electrolytes for Magnesium Batteries. <i>Angewandte Chemie</i> , 2016, 128, 15182-15186.	2.0	11
33	Electrochemical and electron microscopic characterization of Super-P based cathodes for Li ₂ O batteries. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 665-670.	2.8	10
34	Electrocatalytic Oxygen Reduction and Oxygen Evolution in Mg-Free and Mg-Containing Ionic Liquid 1-Butyl-1-methylpyrrolidinium Bis (Trifluoromethanesulfonyl) Imide. <i>ChemElectroChem</i> , 2018, 5, 2600-2611.	3.4	10
35	Electrochemical Formation and Characterization of Surface Blocking Layers on Gold and Platinum by Oxygen Reduction in Mg(ClO ₄) ₂ in DMSO. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2037-A2046.	2.9	10
36	Effect of Salt Concentration, Solvent Donor Number and Coordination Structure on the Variation of the Li/Li ⁺ Potential in Aprotic Electrolytes. <i>Energies</i> , 2020, 13, 1470.	3.1	7

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37	Suitability of Carbazoyl Hauser and Turboâ€Hauser Bases as Magnesiumâ€Based Electrolytes. European Journal of Inorganic Chemistry, 2022, 2022, .	2.0	6
38	Investigation of the Electrochemical Oxygen Reduction Reaction in Non-Aqueous, Magnesium-Ion-Containing Electrolytes for Magnesium Air Batteries. ECS Transactions, 2017, 75, 3-12.	0.5	3
39	On the Electrochemical Insertion of Mg ²⁺ in Na ₇ V ₄ (P ₂ O ₇) ₄ (PO ₄) and Na ₃ V ₂ (PO ₄) ₃ Host Materials. Journal of the Electrochemical Society, 2021, 168, 120541.	2.9	3
40	Sodium Cyclopentadienide as a New Type of Electrolyte for Sodium Batteries. ChemElectroChem, 2021, 8, 365-369.	3.4	1
41	Incremental Pressure Curves to Assess Capacity Fade in Next-Generation Li-Ion Pouch Cells. , 2019, , .		0