Francesco Nobili

List of Publications by Year
in descending order

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76 papers	2,652 citations	147801 31 h-index	197818 49 g-index
79 all docs	79 docs citations	79 times ranked	3195 citing authors

#	Article	IF	Citations
1	Electronic and Electrochemical Properties of LixNi1-yCoyO2Cathodes Studied by Impedance Spectroscopy. Chemistry of Materials, 2001, 13, 1642-1646.	6.7	167
2	An electrochemical impedance spectroscopic study of the transport properties of LiNi0.75Co0.25O2. Electrochemistry Communications, 1999, 1, 605-608.	4.7	113
3	Cerium(III) Chloride, a Novel Reagent for Nonaqueous Selective Conversion of Dioxolanes to Carbonyl Compounds. Journal of Organic Chemistry, 1997, 62, 4183-4184.	3.2	111
4	Graphene/silicon nanocomposite anode with enhanced electrochemical stability for lithium-ion battery applications. Journal of Power Sources, 2014, 269, 873-882.	7.8	106
5	Low-temperature behavior of graphiteâ€“tin composite anodes for Li-ion batteries. Journal of Power Sources, 2010, 195, 7090-7097.	7.8	102
6	High performance, environmentally friendly and low cost anodes for lithium-ion battery based on TiO2 anatase and water soluble binder carboxymethyl cellulose. Journal of Power Sources, 2011, 196, 9665-9671.	7.8	95
7	An AC Impedance Spectroscopic Study of LixCoO2at Different Temperatures. Journal of Physical Chemistry B, 2002, 106, 3909-3915.	2.6	86
8	High-performance Sn@carbon nanocomposite anode for lithium batteries. Journal of Power Sources, 2013, 226, 241-248.	7.8	83
9	Lithium intercalation and interfacial kinetics of composite anodes formed by oxidized graphite and copper. Journal of Power Sources, 2009, 190, 141-148.	7.8	74
10	V₂O₅ Aerogel as a Versatile Cathode Material for Lithium and Sodium Batteries. ChemElectroChem, 2015, 2, 529-537.	3.4	74
11	Is the Solid Electrolyte Interphase an Extra-Charge Reservoir in Li-Ion Batteries?. ACS Applied Materials & Interfaces, 2017, 9, 4570-4576.	8.0	74
12	An ac impedance spectroscopic study of Mg-doped LiCoO2 at different temperatures: electronic and ionic transport properties. Electrochimica Acta, 2005, 50, 2307-2313.	5.2	71
13	Solâ€“gel synthesis and electrochemical characterization of Mg-/Zr-doped LiCoO2 cathodes for Li-ion batteries. Journal of Power Sources, 2012, 197, 276-284.	7.8	70
14	An electrochemical ac impedance study of LixNi0.75Co0.25O2 intercalation electrode. Journal of Power Sources, 2001, 94, 238-241.	7.8	58
15	Unraveling the role of Ti in the stability of positive layered oxide electrodes for rechargeable Na-ion batteries. Journal of Materials Chemistry A, 2019, 7, 14169-14179.	10.3	55
16	Metal-oxidized graphite composite electrodes for lithium-ion batteries. Electrochimica Acta, 2005, 51, 536-544.	5.2	54
17	High-stability graphene nano sheets/SnO2 composite anode for lithium ion batteries. Electrochimica Acta, 2014, 137, 228-234.	5.2	51
18	High-performance Sn@carbon nanocomposite anode for lithium-ion batteries: Lithium storage processes characterization and low-temperature behavior. Electrochimica Acta, 2013, 107, 85-92.	5.2	49

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19	Correlation of Ac-Impedance and In Situ X-ray Spectra of LiCoO2. Journal of Physical Chemistry B, 2006, 110, 11310-11313.	2.6	46
20	Electrochemical investigation of polarization phenomena and intercalation kinetics of oxidized graphite electrodes coated with evaporated metal layers. Journal of Power Sources, 2008, 180, 845-851.	7.8	46
21	SEI Dynamics in Metal Oxide Conversion Electrodes of Li-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 26379-26388.	3.1	45
22	Countercation intercalation and kinetics of charge transport during redox reactions of nickel hexacyanoferrate. Electrochimica Acta, 2004, 49, 4253-4258.	5.2	44
23	Nanostructured tinâ€“carbon/ LiNi0.5Mn1.5O4 lithium-ion battery operating at low temperature. Journal of Power Sources, 2015, 275, 227-233.	7.8	42
24	Direct observation of electronic conductivity transitions and solid electrolyte interphase stability of Na2Ti3O7 electrodes for Na-ion batteries. Journal of Power Sources, 2016, 330, 78-83.	7.8	42
25	Electrochemical characterisation of electrodes modified with a Co/Al hydrotalcite-like compound. Electrochimica Acta, 2005, 50, 3305-3311.	5.2	39
26	Enhanced stability of SnSb/graphene anode through alternative binder and electrolyte additive for lithium ion batteries application. Journal of Power Sources, 2015, 294, 248-253.	7.8	38
27	Study of the electrochemical behavior at low temperatures of green anodes for Lithium ion batteries prepared with anatase TiO2 and water soluble sodium carboxymethyl cellulose binder. Electrochimica Acta, 2012, 85, 566-571.	5.2	37
28	Improved low-temperature electrochemical performance of Li4Ti5O12 composite anodes for Li-ion batteries. Electrochimica Acta, 2013, 109, 207-213.	5.2	36
29	SEI Growth and Depth Profiling on ZFO Electrodes by Soft Xâ€Ray Absorption Spectroscopy. Advanced Energy Materials, 2015, 5, 1500642.	19.5	34
30	High cycling stability of anodes for lithium-ion batteries based on Fe3O4 nanoparticles and poly(acrylic acid) binder. Journal of Power Sources, 2016, 332, 79-87.	7.8	33
31	A newly designed Cu/Super-P composite for the improvement of low-temperature performances of graphite anodes for lithium-ion batteries. Journal of Power Sources, 2013, 222, 66-71.	7.8	32
32	Scaling up â€œNanoâ€•Li₄Ti₅O₁₂for High-Power Lithium-Ion Anodes Using Large Scale Flame Spray Pyrolysis. Journal of the Electrochemical Society, 2015, 162, A2331-A2338.	2.9	32
33	AC impedance study of a synthetic hydrotalcite-like compound modified electrode in aqueous solution. Electrochimica Acta, 2003, 48, 1347-1355.	5.2	30
34	Time/Spaceâ€Resolved Studies of the Nafion Membrane Hydration Profile in a Running Fuel Cell. Advanced Materials, 2009, 21, 578-583.	21.0	29
35	Tin-coated graphite electrodes as composite anodes for Li-ion batteries. Effects of tin coatings thickness toward intercalation behavior. Journal of Power Sources, 2012, 198, 243-250.	7.8	28
36	Binder-induced surface structure evolution effects on Li-ion battery performance. Applied Surface Science, 2018, 435, 1029-1036.	6.1	28

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37	Synthesis and electrochemical characterization of high rate capability Li3V2(PO4)3/C prepared by using poly(acrylic acid) and d-(+)-glucose as carbon sources. Journal of Power Sources, 2015, 275, 792-798.	7.8	27
38	Sustainable Anodes for Lithium- and Sodium-Ion Batteries Based on Coffee Ground-Derived Hard Carbon and Green Binders. Energies, 2020, 13, 6216.	3.1	27
39	Microwave-assisted synthesis of carbon (Super-P) supported copper nanoparticles as conductive agent for Li4Ti5O12 anodes for Lithium-ion batteries. Electrochimica Acta, 2013, 89, 555-560.	5.2	22
40	Electrochemical and spectroscopic characterization of an alumina-coated LiMn2O4 cathode with enhanced interfacial stability. Electrochimica Acta, 2017, 258, 175-181.	5.2	22
41	Interfacial Properties of Copperâ€coated Graphite Electrodes: Coating Thickness Dependence. Fuel Cells, 2009, 9, 264-268.	2.4	21
42	Structural and Electrochemical Characterization of Vanadium-Doped LiFePO4Cathodes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A940-A949.	2.9	20
43	Local Structure and Stability of SEI in Graphite and ZFO Electrodes Probed by As K-Edge Absorption Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 4287-4295.	3.1	20
44	Electrochemical Response and Structural Stability of the Li⁺ Ion Battery Cathode with Coated LiMn₂O₄ Nanoparticles. ACS Applied Energy Materials, 2020, 3, 8356-8365.	5.1	18
45	Structural study of LiFePO4â€“LiNiPO4 solid solutions. Journal of Power Sources, 2012, 213, 287-295.	7.8	17
46	Graphene/V₂O₅ Cryogel Composite As a Highâ€Energy Cathode Material For Lithiumâ€Ion Batteries. ChemElectroChem, 2017, 4, 613-619.	3.4	17
47	Influence of Using Metallic Na on the Interfacial and Transport Properties of Na-Ion Batteries. Batteries, 2017, 3, 16.	4.5	17
48	Synthesis and characterization of Si nanoparticles wrapped by V2O5 nanosheets as a composite anode material for lithium-ion batteries. Electrochimica Acta, 2018, 281, 676-683.	5.2	16
49	Does Alumina Coating Alter the Solid Permeable Interphase Dynamics in LiMn₂O₄ Cathodes?. Journal of Physical Chemistry C, 2020, 124, 26670-26677.	3.1	15
50	Structural and Interfacial Characterization of a Sustainable Si/Hard Carbon Composite Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 33257-33273.	8.0	15
51	Electrochemical behavior of superdense â€˜LiC2â€™ prepared by ball-milling. Electrochimica Acta, 2003, 48, 1419-1424.	5.2	14
52	Synthesis and characterization of Zn-doped LiFePO4 cathode materials for Li-ion battery. Materials Chemistry and Physics, 2015, 155, 191-204.	4.0	14
53	Rotating disk electrode study of Pt/Cs3HPMo11VO40 composite catalysts for performing and durable PEM fuel cells. International Journal of Hydrogen Energy, 2016, 41, 11163-11173.	7.1	14
54	An innovative membrane-electrode assembly for efficient and durable polymer electrolyte membrane fuel cell operations. International Journal of Hydrogen Energy, 2017, 42, 16686-16694.	7.1	14

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55	Anatase TiO₂ as a Cheap and Sustainable Buffering Filler for Silicon Nanoparticles in Lithiumâ€Ion Battery Anodes. ChemSusChem, 2017, 10, 4771-4777.	6.8	14
56	An extensive model for renewable energy electrochemical storage with Solid Oxide Cells based on a comprehensive analysis of impedance deconvolution. Journal of Energy Storage, 2021, 33, 102052.	8.1	13
57	Synthesis and Characterization of Vanillinâ€Templated Fe₂O₃ Nanoparticles as a Sustainable Anode Material for Liâ€Ion Batteries. ChemElectroChem, 2019, 6, 1915-1920.	3.4	12
58	Role of the voltage window on the capacity retention of P2-Na2/3[Fe1/2Mn1/2]O2 cathode material for rechargeable sodium-ion batteries. Communications Chemistry, 2022, 5, .	4.5	12
59	Early-Stage Detection of Solid Oxide Cells Anode Degradation by Operando Impedance Analysis. Processes, 2021, 9, 848.	2.8	11
60	Fe3O4/Graphene Composite Anode Material for Fast-Charging Li-Ion Batteries. Molecules, 2021, 26, 4316.	3.8	11
61	Tin-Decorated Reduced Graphene Oxide and NaLi0.2Ni0.25Mn0.75Oï•as Electrode Materials for Sodium-Ion Batteries. Materials, 2019, 12, 1074.	2.9	10
62	V2O5 electrodes with extended cycling ability and improved rate performance using polyacrylic acid as binder. Journal of Power Sources, 2015, 293, 1068-1072.	7.8	9
63	A lithium-ion battery based on LiFePO4 and silicon/reduced graphene oxide nanocomposite. Solid State Ionics, 2015, 283, 145-151.	2.7	9
64	Low platinum loading cathode modified with Cs3H2PMo10V2O40 for polymer electrolyte membrane fuel cells. Journal of Power Sources, 2016, 327, 11-20.	7.8	9
65	Development of Non-Fluorinated Cathodes Based on Li₃V_{1.95}Ni_{0.05}(PO₄)₃/C with Prolonged Cycle Life: A Comparison among Na-Alginate, Na-Carboxymethyl Cellulose and Poly(acrylic acid) Binders. Journal of the Electrochemical Society, 2017, 164, A672-A683.	2.9	9
66	Improvement of structural and electrochemical properties of NMC layered cathode material by combined doping and coating. Electrochimica Acta, 2022, 404, 139577.	5.2	9
67	Preparation and Electrochemical Characterization of High-Stability MnO Anodes for Li-Ion Batteries. Electrochimica Acta, 2017, 247, 392-399.	5.2	8
68	A high-voltage lithium-ion battery prepared using a Sn-decorated reduced graphene oxide anode and a LiNi0.5Mn1.5O4 cathode. Ionics, 2016, 22, 515-528.	2.4	7
69	Fast File Transfers from IoT Devices by Using Multiple Interfaces. Sensors, 2021, 21, 36.	3.8	5
70	Simple Synthesis of Fe3O4@-Activated Carbon from Wastepaper for Dispersive Magnetic Solid-Phase Extraction of Non-Steroidal Anti-Inflammatory Drugs and Their UHPLCâ€“PDA Determination in Human Plasma. Fibers, 2022, 10, 58.	4.0	5
71	Activation of bimetallic PtFe nanoparticles with zeolite-type cesium salts of vanadium-substituted polyoxometallates toward electroreduction of oxygen at low Pt loadings for fuel cells. Journal of Solid State Electrochemistry, 2022, 26, 3-16.	2.5	4
72	Operando Analysis of Losses in Commercial-Sized Solid Oxide Cells: Methodology Development and Validation. Energies, 2022, 15, 4978.	3.1	3

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73	Energy Dispersive Xâ€ray Diffraction Applied to Laboratory Investigation on Proton Exchange Membrane Water Content in Working Fuel Cells. Fuel Cells, 2012, 12, 800-808.	2.4	2
74	Fe local structure in Pt-free nitrogen-modified carbon based electrocatalysts: XAFS study. Journal of Physics: Conference Series, 2016, 712, 012131.	0.4	2
75	V₂O₅ Cryogel: A Versatile Electrode for All Solid State Lithium Batteries. Journal of the Electrochemical Society, 2019, 166, A3927-A3931.	2.9	2
76	Foreword to the memorial issue for Professor Roberto Marassi. Journal of Solid State Electrochemistry, 2022, 26, 1-2.	2.5	2