

Maria Assunta Navarra

List of Publications by Year in descending order

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78
papers

2,175
citations

236612

25
h-index

243296

44
g-index

80
all docs

80
docs citations

80
times ranked

2714
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixtures of ionic liquid " Alkylcarbonates as electrolytes for safe lithium-ion batteries. Journal of Power Sources, 2013, 227, 8-14.	4.0	172
2	Enhancing methane production from food waste fermentate using biochar: the added value of electrochemical testing in pre-selecting the most effective type of biochar. Biotechnology for Biofuels, 2017, 10, 303.	6.2	122
3	Composite Nafion/Sulfated Zirconia Membranes: Effect of the Filler Surface Properties on Proton Transport Characteristics. Chemistry of Materials, 2010, 22, 813-821.	3.2	103
4	Ionic liquids as safe electrolyte components for Li-metal and Li-ion batteries. MRS Bulletin, 2013, 38, 548-553.	1.7	101
5	New, high temperature superacid zirconia-doped Nafion [®] , [†] composite membranes. Journal of Materials Chemistry, 2007, 17, 3210.	6.7	85
6	Synthesis and Characterization of Cellulose-Based Hydrogels to Be Used as Gel Electrolytes. Membranes, 2015, 5, 810-823.	1.4	71
7	Composite Poly(ethylene oxide) Electrolytes Plasticized by N-alkyl-N-butylpyrrolidinium Bis(trifluoromethanesulfonyl)imide for Lithium Batteries. ChemSusChem, 2013, 6, 1037-1043.	3.6	69
8	Preparation and Characterization of Nanocomposite Polymer Membranes Containing Functionalized SnO ₂ Additives. Membranes, 2014, 4, 123-142.	1.4	69
9	Ionic Liquid-Based Membranes as Electrolytes for Advanced Lithium Polymer Batteries. ChemSusChem, 2011, 4, 125-130.	3.6	66
10	Silica-Added, Composite Poly(vinyl alcohol) Membranes for Fuel Cell Application. Journal of the Electrochemical Society, 2005, 152, A2400.	1.3	65
11	Preparation and characterization of phosphotungstic acid-derived salt/Nafion nanocomposite membranes for proton exchange membrane fuel cells. Journal of Power Sources, 2011, 196, 988-998.	4.0	59
12	Characterization of sulfated-zirconia/Nafion [®] composite membranes for proton exchange membrane fuel cells. Journal of Power Sources, 2012, 198, 66-75.	4.0	58
13	Chemically stabilised extruded and recast short side chain Aquivion [®] proton exchange membranes for high current density operation in water electrolysis. Journal of Membrane Science, 2019, 578, 136-148.	4.1	48
14	Emerging calcium batteries. Journal of Power Sources, 2021, 482, 228875.	4.0	48
15	Novel, Ionic-Liquid-Based, Gel-Type Proton Membranes. Electrochemical and Solid-State Letters, 2005, 8, A324.	2.2	46
16	Structure and properties of Li-ion conducting polymer gel electrolytes based on ionic liquids of the pyrrolidinium cation and the bis(trifluoromethanesulfonyl)imide anion. Journal of Power Sources, 2014, 245, 830-835.	4.0	45
17	Stabilization of Different Conformers of Bis(trifluoromethanesulfonyl)imide Anion in Ammonium-Based Ionic Liquids at Low Temperatures. Journal of Physical Chemistry A, 2014, 118, 8758-8764.	1.1	42
18	A Structural Study on Ionic-Liquid-Based Polymer Electrolyte Membranes. Journal of the Electrochemical Society, 2007, 154, G183.	1.3	38

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19	New Ether-functionalized Morpholinium and Piperidinium based Ionic Liquids as Electrolyte Components in Lithium and Lithium-Ion Batteries. <i>ChemSusChem</i> , 2017, 10, 2496-2504.	3.6	38
20	PVdF-Based Membranes for DMFC Applications. <i>Journal of the Electrochemical Society</i> , 2003, 150, A1528.	1.3	37
21	A high-power and fast charging Li-ion battery with outstanding cycle-life. <i>Scientific Reports</i> , 2017, 7, 1104.	1.6	37
22	Polymer Electrolyte Membranes Based on Nafion and a Superacidic Inorganic Additive for Fuel Cell Applications. <i>Polymers</i> , 2019, 11, 914.	2.0	32
23	Enhanced safety and galvanostatic performance of high voltage lithium batteries by using ionic liquids. <i>Electrochimica Acta</i> , 2019, 316, 1-7.	2.6	32
24	Aprotic ionic liquids as electrolyte components in protonic membranes. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 993-996.	1.5	25
25	Adaptive neuro-fuzzy inference system and artificial neural network modeling of proton exchange membrane fuel cells based on nanocomposite and recast Nafion membranes. <i>International Journal of Energy Research</i> , 2013, 37, 347-357.	2.2	25
26	An NMR study on the molecular dynamic and exchange effects in composite Nafion/sulfated titania membranes for PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14651-14660.	3.8	25
27	Electrochemical synthesis of nanowire anodes from spent lithium ion batteries. <i>Electrochimica Acta</i> , 2019, 319, 481-489.	2.6	25
28	Novel bis(fluorosulfonyl)imide-based and ether-functionalized ionic liquids for lithium batteries with improved cycling properties. <i>Electrochimica Acta</i> , 2019, 293, 160-165.	2.6	25
29	Low-Temperature Phase Transitions of 1-Butyl-1-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide Swelling a Polyvinylidene fluoride Electrospun Membrane. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5749-5755.	1.5	24
30	Functionalized Al ₂ O ₃ particles as additives in proton-conducting polymer electrolyte membranes for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14757-14767.	3.8	24
31	A composite proton-conducting membrane based on a poly(vinylidene)fluoride-poly(acrylonitrile), PVdF-PAN blend. <i>Journal of Solid State Electrochemistry</i> , 2004, 8, 804.	1.2	23
32	Tailoring the physical properties of the mixtures of ionic liquids: a microscopic point of view. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8322-8329.	1.3	23
33	Polymerized ionic liquids as durable antistatic agents for polyether-based polyurethanes. <i>Electrochimica Acta</i> , 2019, 308, 115-120.	2.6	22
34	Stabilizing the Performance of High-Capacity Sulfur Composite Electrodes by a New Gel Polymer Electrolyte Configuration. <i>ChemSusChem</i> , 2017, 10, 3490-3496.	3.6	20
35	Electrolyte Measures to Prevent Polysulfide Shuttle in Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	20
36	An Infrared Spectroscopy Study of the Conformational Evolution of the Bis(trifluoromethanesulfonyl)imide Ion in the Liquid and in the Glass State. <i>Advances in Condensed Matter Physics</i> , 2015, 2015, 1-11.	0.4	19

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37	Structural and Spectroscopic Characterization of A Nanosized Sulfated TiO ₂ Filler and of Nanocomposite Nafion Membranes. <i>Polymers</i> , 2016, 8, 68.	2.0	19
38	Sulfated titania as additive in Nafion membranes for water electrolysis applications. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27851-27858.	3.8	19
39	Bis(oxalato)borate and di-nuro(oxalato)borate-based ionic liquids as electrolyte additives to improve the capacity retention in high voltage lithium batteries. <i>Electrochimica Acta</i> , 2019, 315, 17-23.	2.6	19
40	In Situ XRD Studies of the Hydration Degree of the Polymeric Membrane in a Fuel Cell. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, A519.	2.2	18
41	Temperature-dependent Performances of a Fuel Cell Using a Superacid Zirconia-doped Nafion Polymer Electrolyte. <i>Fuel Cells</i> , 2009, 9, 222-225.	1.5	18
42	A versatile electrochemical method to synthesize Co-CoO core-shell nanowires anodes for lithium ion batteries with superior stability and rate capability. <i>Electrochimica Acta</i> , 2018, 290, 347-355.	2.6	18
43	Screening and Assessment of Low-Molecular-Weight Biomarkers of Milk from Cow and Water Buffalo: An Alternative Approach for the Rapid Identification of Adulterated Water Buffalo Mozzarellas. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 5410-5417.	2.4	18
44	N-n-Butyl-N-methylpyrrolidinium hexafluorophosphate-added electrolyte solutions and membranes for lithium-secondary batteries. <i>Journal of Power Sources</i> , 2013, 233, 104-109.	4.0	17
45	Safe gel polymer electrolytes for high voltage Li-batteries. <i>Electrochimica Acta</i> , 2022, 401, 139470.	2.6	17
46	Effect of functionalized silica particles on cross-linked poly(vinyl alcohol) proton conducting membranes. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 931-938.	1.5	16
47	Effects of water freezing on the mechanical properties of nafion membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1421-1425.	2.4	16
48	The effect of ether-functionalisation in ionic liquids analysed by DFT calculation, infrared spectra, and Kamlet-Taft parameters. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7989-7997.	1.3	16
49	Upcycling Real Waste Mixed Lithium-Ion Batteries by Simultaneous Production of rGO and Lithium-Manganese-Rich Cathode Material. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13303-13311.	3.2	15
50	Quaternary Polyethylene Oxide Electrolytes Containing Ionic Liquid for Lithium Polymer Battery. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1175-A1180.	1.3	14
51	Composite Nafion-CaTiO ₃ Membranes as Electrolyte Component for PEM Fuel Cells. <i>Polymers</i> , 2020, 12, 2019.	2.0	14
52	Macro- and Microscopic Properties of Nonaqueous Proton Conducting Membranes Based on PAN. <i>Journal of the Electrochemical Society</i> , 2003, 150, A267.	1.3	11
53	Hybrid membranes based on sulfated titania nanoparticles as low-cost proton conductors. <i>Ionics</i> , 2013, 19, 1203-1206.	1.2	11
54	Composite Nafion Membranes with CaTiO ₃ Additive for Possible Applications in Electrochemical Devices. <i>Membranes</i> , 2019, 9, 143.	1.4	11

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55	Composite Gel-Type Proton Membranes. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1284.	1.3	10
56	Sn/C composite anodes for bulk-type all-solid-state batteries. <i>Electrochimica Acta</i> , 2021, 395, 139104.	2.6	10
57	Critical Filler Concentration in Sulfated Titania-Added Nafion [®] Membranes for Fuel Cell Applications. <i>Energies</i> , 2016, 9, 272.	1.6	9
58	Performance Improvement in Direct Methanol Fuel Cells by Using CaTiO ₃ - γ Additive at the Cathode. <i>Catalysts</i> , 2019, 9, 1017.	1.6	9
59	In-situ gelled electrolyte for lithium battery: Electrochemical and Raman characterization. <i>Journal of Power Sources</i> , 2014, 245, 232-235.	4.0	8
60	Enhancing Oxygen Reduction Reaction Catalytic Activity Using a Substoichiometric CaTiO ₃ - γ Additive. <i>ChemElectroChem</i> , 2019, 6, 5941-5945.	1.7	7
61	Improvement of Graphite Interfacial Stability in All-Solid-State Cells Adopting Sulfide Glassy Electrolytes. <i>ChemElectroChem</i> , 2021, 8, 689-696.	1.7	7
62	Different approaches to obtain functionalized alumina as additive in polymer electrolyte membranes. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 17-27.	1.2	7
63	Gel Polymer Electrolytes Based on Silica-Added Poly(ethylene oxide) Electrospun Membranes for Lithium Batteries. <i>Membranes</i> , 2018, 8, 126.	1.4	6
64	A Novel Li ⁺ -Conducting Polymer Membrane Gelled by Fluorine-Free Electrolyte Solutions for Li-Ion Batteries. <i>Batteries and Supercaps</i> , 2020, 3, 1112-1119.	2.4	6
65	Inter- and Intramolecular Interactions in Ether-Functionalized Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2380-2388.	1.2	5
66	Solvent-free nanocomposite proton-conducting membranes composed of cesium salt of phosphotungstic acid doped PVDF-CTFE/PEO blend. <i>Ionics</i> , 2010, 16, 681-687.	1.2	4
67	The tetragonal-to-orthorhombic phase transformation in ammonia borane and in its deuterium substituted compounds. <i>Journal of Alloys and Compounds</i> , 2011, 509, S709-S713.	2.8	4
68	Removal of Copper Corrosion Products by Using Green Deep Eutectic Solvent and Bio-Derivative Cellulose Membrane. <i>Polymers</i> , 2022, 14, 2284.	2.0	3
69	New Composite, Gel-Type Proton Membranes. <i>ECS Transactions</i> , 2006, 1, 169-174.	0.3	2
70	Hydrogen isotope effects on the structural phase transition of NH ₃ BH ₃ . <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7927-7931.	3.8	2
71	Electrochemical synthesis of nanowires electrodes and their application in energy storage devices. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
72	V ₂ O ₅ Cryogel: A Versatile Electrode for All Solid State Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3927-A3931.	1.3	2

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73	Titanium-Based Tetrakis-2,3-[5,6-di(Substituted)pyrazino]porphyrazine: Synthesis and Characterization. European Journal of Inorganic Chemistry, 2020, 2020, 2417-2423.	1.0	2
74	Enhancing Oxygen Reduction Reaction Catalytic Activity Using a Sub-Stoichiometric CaTiO ₃ Additive. ChemElectroChem, 2019, 6, 5910-5910.	1.7	0
75	Production of nanostructured electrodes from spent Lithium ion batteries and their application in new energy storage devices. AIP Conference Proceedings, 2020, , .	0.3	0
76	Novel Liquid and Polymer Electrolytes for Lithium-Sulfur Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0
77	Novel Ether- or Sulfur-Functionalized Ionic Liquids As Electrolyte Components in Advanced Lithium Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0
78	(Invited) Conductivity and Dielectric Relaxations in New Morpholinium- and Piperidinium-Based Ionic Liquids. ECS Meeting Abstracts, 2017, , .	0.0	0