Maria Assunta Navarra

List of Publications by Year
in descending order

78	2,175	236925 25	243625 44
papers	citations	h-index	g-index

80	80	80	2714
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mixtures of ionic liquid â€“ Alkylcarbonates as electrolytes for safe lithium-ion batteries. Journal of Power Sources, 2013, 227, 8-14.	7.8	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.	6.7	103
4	Ionic liquids as safe electrolyte components for Li-metal and Li-ion batteries. MRS Bulletin, 2013, 38, 548-553.	3.5	101
5	New, high temperature superacid zirconia-doped Nafionâ„¢ 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.	3.0	71
7	Composite Poly(ethylene oxide) Electrolytes Plasticized by Nâ€Alkylâ€Nâ€butylpyrrolidinium Bis(trifluoromethanesulfonyl)imide for Lithium Batteries. ChemSusChem, 2013, 6, 1037-1043.	6.8	69
8	Preparation and Characterization of Nanocomposite Polymer Membranes Containing Functionalized SnO2 Additives. Membranes, 2014, 4, 123-142.	3.0	69
9	Ionic Liquidâ€Based Membranes as Electrolytes for Advanced Lithium Polymer Batteries. ChemSusChem, 2011, 4, 125-130.	6.8	66
10	Silica-Added, Composite Poly(vinyl alcohol) Membranes for Fuel Cell Application. Journal of the Electrochemical Society, 2005, 152, A2400.	2.9	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.	7.8	59
12	Characterization of sulfated-zirconia/NafionÂ® composite membranes for proton exchange membrane fuel cells. Journal of Power Sources, 2012, 198, 66-75.	7.8	58
13	Chemically stabilised extruded and recast short side chain AquivionÂ® proton exchange membranes for high current density operation in water electrolysis. Journal of Membrane Science, 2019, 578, 136-148.	8.2	48
14	Emerging calcium batteries. Journal of Power Sources, 2021, 482, 228875.	7.8	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.	7.8	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.	2.5	42
18	A Structural Study on Ionic-Liquid-Based Polymer Electrolyte Membranes. Journal of the Electrochemical Society, 2007, 154, G183.	2.9	38

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19	New Etherâ€functionalized Morpholiniumâ€•and Piperidiniumâ€based Ionic Liquids as Electrolyte Components in Lithium and Lithiumâ€“Ion Batteries. ChemSusChem, 2017, 10, 2496-2504.	6.8	38
20	PVdF-Based Membranes for DMFC Applications. Journal of the Electrochemical Society, 2003, 150, A1528.	2.9	37
21	A high-power and fast charging Li-ion battery with outstanding cycle-life. Scientific Reports, 2017, 7, 1104.	3.3	37
22	Polymer Electrolyte Membranes Based on Nafion and a Superacidic Inorganic Additive for Fuel Cell Applications. Polymers, 2019, 11, 914.	4.5	32
23	Enhanced safety and galvanostatic performance of high voltage lithium batteries by using ionic liquids. Electrochimica Acta, 2019, 316, 1-7.	5.2	32
24	Aprotic ionic liquids as electrolyte components in protonic membranes. Journal of Applied Electrochemistry, 2008, 38, 993-996.	2.9	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. International Journal of Energy Research, 2013, 37, 347-357.	4.5	25
26	An NMR study on the molecular dynamic and exchange effects in composite Nafion/sulfated titania membranes for PEMFCs. International Journal of Hydrogen Energy, 2015, 40, 14651-14660.	7.1	25
27	Electrochemical synthesis of nanowire anodes from spent lithium ion batteries. Electrochimica Acta, 2019, 319, 481-489.	5.2	25
28	Novel bis(fluorosulfonyl)imide-based and ether-functionalized ionic liquids for lithium batteries with improved cycling properties. Electrochimica Acta, 2019, 293, 160-165.	5.2	25
29	Low-Temperature Phase Transitions of 1-Butyl-1-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide Swelling a Polyvinylidenefluoride Electrospun Membrane. Journal of Physical Chemistry C, 2014, 118, 5749-5755.	3.1	24
30	Functionalized Al2O3 particles as additives in proton-conducting polymer electrolyte membranes for fuel cell applications. International Journal of Hydrogen Energy, 2015, 40, 14757-14767.	7.1	24
31	A composite proton-conducting membrane based on a poly(vinylidene)fluoride-poly(acrylonitrile), PVdF-PAN blend. Journal of Solid State Electrochemistry, 2004, 8, 804.	2.5	23
32	Tailoring the physical properties of the mixtures of ionic liquids: a microscopic point of view. Physical Chemistry Chemical Physics, 2017, 19, 8322-8329.	2.8	23
33	Polymerized ionic liquids as durable antistatic agents for polyether-based polyurethanes. Electrochimica Acta, 2019, 308, 115-120.	5.2	22
34	Stabilizing the Performance of Highâ€Capacity Sulfur Composite Electrodes by a New Gel Polymer Electrolyte Configuration. ChemSusChem, 2017, 10, 3490-3496.	6.8	20
35	Electrolyte Measures to Prevent Polysulfide Shuttle in Lithiumâ€Sulfur Batteries. Batteries and Supercaps, 2022, 5, .	4.7	20
36	An Infrared Spectroscopy Study of the Conformational Evolution of the Bis(trifluoromethanesulfonyl)imide Ion in the Liquid and in the Glass State. Advances in Condensed Matter Physics, 2015, 2015, 1-11.	1.1	19

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37	Structural and Spectroscopic Characterization of A Nanosized Sulfated TiO2 Filler and of Nanocomposite Nafion Membranes. Polymers, 2016, 8, 68.	4.5	19
38	Sulfated titania as additive in Nafion membranes for water electrolysis applications. International Journal of Hydrogen Energy, 2017, 42, 27851-27858.	7.1	19
39	Bis(oxalato)borate and dïï¬‚uoro(oxalato)borate-based ionic liquids as electrolyte additives to improve the capacity retention in high voltage lithium batteries. Electrochimica Acta, 2019, 315, 17-23.	5.2	19
40	In Situ XRD Studies of the Hydration Degree of the Polymeric Membrane in a Fuel Cell. Electrochemical and Solid-State Letters, 2004, 7, A519.	2.2	18
41	Temperature-dependent Performances of a Fuel Cell Using a Superacid Zirconia-doped Nafion Polymer Electrolyte. Fuel Cells, 2009, 9, 222-225.	2.4	18
42	A versatile electrochemical method to synthesize Co-CoO core-shell nanowires anodes for lithium ion batteries with superior stability and rate capability. Electrochimica Acta, 2018, 290, 347-355.	5.2	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. Journal of Agricultural and Food Chemistry, 2018, 66, 5410-5417.	5.2	18
44	N-n-Butyl-N-methylpyrrolidinium hexafluorophosphate-added electrolyte solutions and membranes for lithium-secondary batteries. Journal of Power Sources, 2013, 233, 104-109.	7.8	17
45	Safe gel polymer electrolytes for high voltage Li-batteries. Electrochimica Acta, 2022, 401, 139470.	5.2	17
46	Effect of functionalized silica particles on cross-linked poly(vinyl alcohol) proton conducting membranes. Journal of Applied Electrochemistry, 2008, 38, 931-938.	2.9	16
47	Effects of water freezing on the mechanical properties of nafion membranes. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1421-1425.	2.1	16
48	The effect of ether-functionalisation in ionic liquids analysed by DFT calculation, infrared spectra, and Kamletâ€“Taft parameters. Physical Chemistry Chemical Physics, 2018, 20, 7989-7997.	2.8	16
49	Upcycling Real Waste Mixed Lithium-Ion Batteries by Simultaneous Production of rGO and Lithium-Manganese-Rich Cathode Material. ACS Sustainable Chemistry and Engineering, 2021, 9, 13303-13311.	6.7	15
50	Quaternary Polyethylene Oxide Electrolytes Containing Ionic Liquid for Lithium Polymer Battery. Journal of the Electrochemical Society, 2016, 163, A1175-A1180.	2.9	14
51	Composite Nafion-CaTiO3-Î´ Membranes as Electrolyte Component for PEM Fuel Cells. Polymers, 2020, 12, 2019.	4.5	14
52	Macro- and Microscopic Properties of Nonaqueous Proton Conducting Membranes Based on PAN. Journal of the Electrochemical Society, 2003, 150, A267.	2.9	11
53	Hybrid membranes based on sulfated titania nanoparticles as low-cost proton conductors. Ionics, 2013, 19, 1203-1206.	2.4	11
54	Composite Nafion Membranes with CaTiO3â^’Î´ Additive for Possible Applications in Electrochemical Devices. Membranes, 2019, 9, 143.	3.0	11

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55	Composite Gel-Type Proton Membranes. Journal of the Electrochemical Society, 2006, 153, A1284.	2.9	10
56	Sn/C composite anodes for bulk-type all-solid-state batteries. Electrochimica Acta, 2021, 395, 139104.	5.2	10
57	Critical Filler Concentration in Sulfated Titania-Added Nafionâ„¢ Membranes for Fuel Cell Applications. Energies, 2016, 9, 272.	3.1	9
58	Performance Improvement in Direct Methanol Fuel Cells by Using CaTiO3-Î´ Additive at the Cathode. Catalysts, 2019, 9, 1017.	3.5	9
59	In-situ gelled electrolyte for lithium battery: Electrochemical andÂRaman characterization. Journal of Power Sources, 2014, 245, 232-235.	7.8	8
60	Enhancing Oxygen Reduction Reaction Catalytic Activity Using a Subâ€Stoichiometric CaTiO 3â^' Î´ Additive. ChemElectroChem, 2019, 6, 5941-5945.	3.4	7
61	Improvement of Graphite Interfacial Stability in Allâ€Solidâ€State Cells Adopting Sulfide Glassy Electrolytes. ChemElectroChem, 2021, 8, 689-696.	3.4	7
62	Different approaches to obtain functionalized alumina as additive in polymer electrolyte membranes. Journal of Solid State Electrochemistry, 2022, 26, 17-27.	2.5	7
63	Gel Polymer Electrolytes Based on Silica-Added Poly(ethylene oxide) Electrospun Membranes for Lithium Batteries. Membranes, 2018, 8, 126.	3.0	6
64	A Novel Li + â€Conducting Polymer Membrane Gelled by Fluorineâ€Free Electrolyte Solutions for Liâ€Ion Batteries. Batteries and Supercaps, 2020, 3, 1112-1119.	4.7	6
65	Inter- and Intramolecular Interactions in Ether-Functionalized Ionic Liquids. Journal of Physical Chemistry B, 2021, 125, 2380-2388.	2.6	5
66	Solvent-free nanocomposite proton-conducting membranes composed of cesium salt of phosphotungstic acid doped PVDFâ€“CTFE/PEO blend. Ionics, 2010, 16, 681-687.	2.4	4
67	The tetragonal-to-orthorhombic phase transformation in ammonia borane and in its deuterium substituted compounds. Journal of Alloys and Compounds, 2011, 509, S709-S713.	5.5	4
68	Removal of Copper Corrosion Products by Using Green Deep Eutectic Solvent and Bio-Derivative Cellulose Membrane. Polymers, 2022, 14, 2284.	4.5	3
69	New Composite, Gel-Type Proton Membranes. ECS Transactions, 2006, 1, 169-174.	0.5	2
70	Hydrogen isotope effects on the structural phase transition of NH3BH3. International Journal of Hydrogen Energy, 2011, 36, 7927-7931.	7.1	2
71	Electrochemical synthesis of nanowires electrodes and their application in energy storage devices. AIP Conference Proceedings, 2019, , .	0.4	2
72	V₂O₅ Cryogel: A Versatile Electrode for All Solid State Lithium Batteries. Journal of the Electrochemical Society, 2019, 166, A3927-A3931.	2.9	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.	2.0	2
74	Enhancing Oxygen Reduction Reaction Catalytic Activity Using a Subâ€Stoichiometric CaTiO 3â^' Î´ Additive. ChemElectroChem, 2019, 6, 5910-5910.	3.4	0
75	Production of nanostructured electrodes from spent Lithium ion batteries and their application in new energy storage devices. AIP Conference Proceedings, 2020, , .	0.4	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