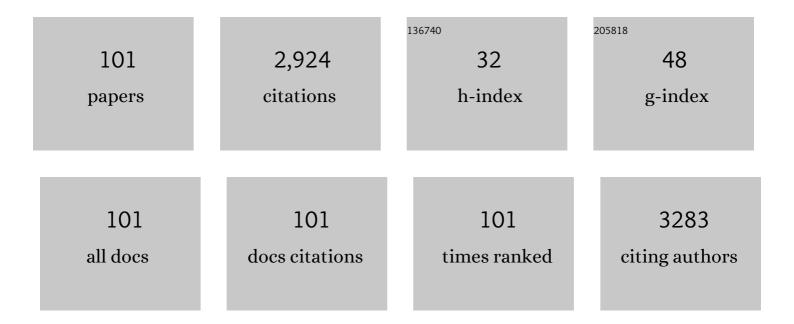
Isabella Nicotera

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	NMR Investigation of Ionic Liquidâ^'LiX Mixtures:Â Pyrrolidinium Cations and TFSI-Anions. Journal of Physical Chemistry B, 2005, 109, 22814-22819.	1.2	178
2	Grapheneâ€Based Nafion Nanocomposite Membranes: Enhanced Proton Transport and Water Retention by Novel Organoâ€functionalized Graphene Oxide Nanosheets. Small, 2012, 8, 3338-3349.	5.2	131
3	Investigation of ionic conduction and mechanical properties of PMMA–PVdF blend-based polymer electrolytesâ~†. Solid State Ionics, 2006, 177, 581-588.	1.3	97
4	Understanding the Effect of UV-Induced Cross-Linking on the Physicochemical Properties of Highly Performing PEO/LiTFSI-Based Polymer Electrolytes. Langmuir, 2019, 35, 8210-8219.	1.6	92
5	Graphene oxide and titania hybrid Nafion membranes for efficient removal of methyl orange dye from water. Carbon, 2015, 82, 489-499.	5.4	86
6	Sulfonated Graphene Oxide Platelets in Nafion Nanocomposite Membrane: Advantages for Application in Direct Methanol Fuel Cells. Journal of Physical Chemistry C, 2014, 118, 24357-24368.	1.5	85
7	Probing membrane and interface properties in concentrated electrolyte solutions. Journal of Membrane Science, 2014, 459, 177-189.	4.1	78
8	Structural changes in CTAB/H2O mixtures using a rheological approach. Physical Chemistry Chemical Physics, 2004, 6, 2364.	1.3	75
9	Effect of solution concentration and composition on the electrochemical properties of ion exchange membranes for energy conversion. Journal of Power Sources, 2017, 340, 282-293.	4.0	62
10	An NMR and SAXS investigation of DMFC composite recast Nafion membranes containing ceramic fillers. Journal of Membrane Science, 2006, 270, 221-227.	4.1	58
11	Dynamic phase diagram and onion formation in the system C10E3/D2O. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 228, 85-90.	2.3	51
12	Nafion® nanocomposite membranes with enhanced properties at high temperature and low humidity environments. International Journal of Hydrogen Energy, 2016, 41, 22406-22414.	3.8	51
13	Clay–Carbon Nanotubes Hybrid Materials for Nanocomposite Membranes: Advantages of Branched Structure for Proton Transport under Low Humidity Conditions in PEMFCs. Journal of Physical Chemistry C, 2016, 120, 2574-2584.	1.5	51
14	Cationic and anionic azo-dye removal from water by sulfonated graphene oxide nanosheets in Nafion membranes. New Journal of Chemistry, 2016, 40, 3654-3663.	1.4	49
15	A study of stability of plasticized PEO electrolytes. Solid State Ionics, 2002, 146, 143-150.	1.3	47
16	Evaluation of smectite clays as nanofillers for the synthesis of nanocomposite polymer electrolytes for fuel cell applications. International Journal of Hydrogen Energy, 2012, 37, 6236-6245.	3.8	47
17	Toxicity Evaluation of Graphene Oxide and Titania Loaded Nafion Membranes in Zebrafish. Frontiers in Physiology, 2017, 8, 1039.	1.3	45
18	NMR Investigation of the Dynamics of Confined Water in Nafion-Based Electrolyte Membranes at Subfreezing Temperatures. Journal of Physical Chemistry B, 2009, 113, 13935-13941.	1.2	44

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19	Temperature dependence of lithium ion solvation in ethylene carbonate–LiClO4 solutions. Journal of Chemical Physics, 2003, 118, 5537-5541.	1.2	43
20	Composite polymer electrolyte membranes based on Mg–Al layered double hydroxide (LDH) platelets for H2/air-fed fuel cells. Solid State Ionics, 2015, 276, 40-46.	1.3	41
21	NMR Characterization of Composite Polymer Membranes for Low-Humidity PEM Fuel Cells. Journal of the Electrochemical Society, 2007, 154, B466.	1.3	40
22	Electrochemical investigation of a propane-fed solid oxide fuel cell based on a composite Ni–perovskite anode catalyst. Applied Catalysis B: Environmental, 2009, 89, 49-57.	10.8	38
23	Sulfonated polyethersulfone/polyetheretherketone blend as high performing and cost-effective electrolyte membrane for direct methanol fuel cells. Renewable Energy, 2020, 159, 336-345.	4.3	38
24	Swollen and collapsed lyotropic lamellar rheology. Journal of Colloid and Interface Science, 2008, 321, 459-467.	5.0	37
25	Graphene oxide and sulfonated-derivative: Proton transport properties and electrochemical behavior of Nafion-based nanocomposites. Electrochimica Acta, 2019, 297, 240-249.	2.6	37
26	Highly-performing and low-cost nanostructured membranes based on Polysulfone and layered doubled hydroxide for high-temperature proton exchange membrane fuel cells. Journal of Power Sources, 2020, 471, 228440.	4.0	37
27	Dynamical Properties of Self-Assembled Surfactant-Based Mixtures: Triggering of One-Dimensional Anomalous Diffusion in Bis(2-ethylhexyl)phosphoric Acid/ <i>n</i> -Octylamine Systems. Langmuir, 2013, 29, 14848-14854.	1.6	36
28	A Novel Li ⁺ -Nafion-Sulfonated Graphene Oxide Membrane as Single Lithium-Ion Conducting Polymer Electrolyte for Lithium Batteries. Journal of Physical Chemistry C, 2019, 123, 27406-27416.	1.5	36
29	Effective Improvement of Water-Retention in Nanocomposite Membranes Using Novel Organo-Modified Clays as Fillers for High Temperature PEMFCs. Journal of Physical Chemistry B, 2011, 115, 9087-9097.	1.2	35
30	Barrier properties of sulfonated polysulfone/layered double hydroxides nanocomposite membrane for direct methanol fuel cell operating at high methanol concentrations. International Journal of Hydrogen Energy, 2020, 45, 20647-20658.	3.8	35
31	An NMR spectroscopic study of water and methanol transport properties in DMFC composite membranes: Influence on the electrochemical behaviour. Journal of Power Sources, 2006, 163, 52-55.	4.0	34
32	Simplified All‣olid‣tate WO ₃ Based Electrochromic Devices on Single Substrate: Toward Large Area, Low Voltage, High Contrast, and Fast Switching Dynamics. Advanced Materials Interfaces, 2020, 7, 1901663.	1.9	33
33	Advances in hybrid composite membranes engineering for high-performance direct methanol fuel cells by alignment of 2D nanostructures and a dual-layer approach. Journal of Membrane Science, 2020, 599, 117858.	4.1	33
34	Investigation of layered double hydroxide (LDH) Nafion-based nanocomposite membranes for high temperature PEFCs. Energy Conversion and Management, 2015, 96, 39-46.	4.4	32
35	Composite Gel Polymer Electrolytes Based on Organo-Modified Nanoclays: Investigation on Lithium-Ion Transport and Mechanical Properties. Membranes, 2018, 8, 69.	1.4	32
36	Enhanced safety and galvanostatic performance of high voltage lithium batteries by using ionic liquids. Electrochimica Acta, 2019, 316, 1-7.	2.6	32

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37	Influence of membrane-type and flow field design on methanol crossover on a single-cell DMFC: An experimental and multi-physics modeling study. International Journal of Hydrogen Energy, 2017, 42, 27995-28010.	3.8	31
38	Autonomous Self-Healing Strategy for Stable Sodium-Ion Battery: A Case Study of Black Phosphorus Anodes. ACS Applied Materials & Interfaces, 2021, 13, 13170-13182.	4.0	31
39	Enhancement of proton mobility and mitigation of methanol crossover in sPEEK fuel cells by an organically modified titania nanofiller. Journal of Solid State Electrochemistry, 2016, 20, 1585-1598.	1.2	30
40	Ion Dynamics and Mechanical Properties of Sulfonated Polybenzimidazole Membranes for High-Temperature Proton Exchange Membrane Fuel Cells. Journal of Physical Chemistry C, 2015, 119, 9745-9753.	1.5	28
41	Reduced methanol crossover and enhanced proton transport in nanocomposite membranes based on clayâ°'CNTs hybrid materials for direct methanol fuel cells. Ionics, 2017, 23, 2113-2123.	1.2	28
42	Advanced processing and characterization of Nafion electrolyte films for solid-state electrochromic devices fabricated at room temperature on single substrate. Solid State Ionics, 2018, 317, 46-52.	1.3	28
43	Polysulfone and organo-modified graphene oxide for new hybrid proton exchange membranes: A green alternative for high-efficiency PEMFCs. Electrochimica Acta, 2021, 380, 138214.	2.6	28
44	NMR investigation of water and methanol mobility in nanocomposite fuel cell membranes. Ionics, 2008, 14, 243-253.	1.2	27
45	Methanol and proton transport in layered double hydroxide and smectite clay-based composites: influence on the electrochemical behavior of direct methanol fuel cells at intermediate temperatures. Journal of Solid State Electrochemistry, 2015, 19, 2053-2061.	1.2	26
46	NMR investigation on nanocomposite membranes based on organosilica layered materials bearing different functional groups for PEMFCs. International Journal of Hydrogen Energy, 2017, 42, 27940-27949.	3.8	26
47	Shear rheology and phase behaviour of sodium oleate/water mixtures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 297, 95-104.	2.3	25
48	NMR and Electrochemical Investigation of the Transport Properties of Methanol and Water in Nafion and Clay-Nanocomposites Membranes for DMFCs. Membranes, 2012, 2, 325-345.	1.4	25
49	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.	3.8	25
50	Non-Monotonic Temperature Dependence of Hydroxide Ion Diffusion in Anion Exchange Membranes. Chemistry of Materials, 2022, 34, 2133-2145.	3.2	25
51	Electrochemical behaviour of propane-fed solid oxide fuel cells based on low Ni content anode catalysts. Electrochimica Acta, 2009, 54, 5280-5285.	2.6	23
52	Highly stable surfactant-crumb rubber-modified bitumen: NMR and rheological investigation. Road Materials and Pavement Design, 2018, 19, 1192-1202.	2.0	23
53	A facile approach to fabricating organosilica layered material with sulfonic groups as an efficient filler for polymer electrolyte nanocomposites. New Journal of Chemistry, 2017, 41, 9489-9496.	1.4	22
54	Toward optimization of a robust lowâ€cost sulfonatedâ€polyethersulfone containing layered double hydroxide for PEM fuel cells. Journal of Applied Polymer Science, 2019, 136, 47884.	1.3	22

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55	Temperature evolution of thermoreversible polymer gel electrolytes LiClO4/ethylene carbonate/poly(acrylonitrile). Journal of Chemical Physics, 2002, 117, 7373-7380.	1.2	21
56	Evidence of Formation of Ammonium Perfluorononanoate/2H2O Multilamellar Vesicles: Morphological Analysis by Rheology and Rheo-2H NMR Experiments. Langmuir, 2010, 26, 19060-19065.	1.6	21
57	Assessment of commercial poly(ε-caprolactone) as a renewable candidate for carbon capture and utilization. Journal of CO2 Utilization, 2017, 19, 185-193.	3.3	20
58	Solution and Liquid Crystalline Microstructures in Sodium Taurodeoxycholate/D2O Mixtures. Langmuir, 2003, 19, 1990-1999.	1.6	19
59	Sulfated titania as additive in Nafion membranes for water electrolysis applications. International Journal of Hydrogen Energy, 2017, 42, 27851-27858.	3.8	19
60	Some physicochemical properties of PAN-based electrolytes: solution and gel microstructures. Solid State lonics, 2004, 167, 213-220.	1.3	18
61	Unravelling micellar structure and dynamics in an unusually extensive DDAB/bile salt catanionic solution by rheology and NMR-diffusometry. Journal of Colloid and Interface Science, 2008, 324, 192-198.	5.0	18
62	How the Morphology of Nafion-Based Membranes Affects Proton Transport. Polymers, 2021, 13, 359.	2.0	18
63	Exploring the Structure–Performance Relationship of Sulfonated Polysulfone Proton Exchange Membrane by a Combined Computational and Experimental Approach. Polymers, 2021, 13, 959.	2.0	18
64	Rheological investigation of thermal transitions in vesicular dispersion. Journal of Colloid and Interface Science, 2009, 338, 550-557.	5.0	17
65	Safe gel polymer electrolytes for high voltage Li-batteries. Electrochimica Acta, 2022, 401, 139470.	2.6	17
66	Nano-demixing as a novel strategy for magnetic field responsive systems: the case of dibutyl phosphate/bis(2-ethylhexyl)amine systems. RSC Advances, 2016, 6, 26696-26708.	1.7	16
67	Transport Properties and Mechanical Features of Sulfonated Polyether Ether Ketone/Organosilica Layered Materials Nanocomposite Membranes for Fuel Cell Applications. Membranes, 2020, 10, 87.	1.4	16
68	Effect of LDH platelets on the transport properties and carbonation of anion exchange membranes. Electrochimica Acta, 2022, 403, 139713.	2.6	16
69	Rheological properties and impedance spectroscopy of PMMA-PVdF blend and PMMA gel polymer electrolytes for advanced lithium batteries. Ionics, 2005, 11, 87-94.	1.2	14
70	Titanium Dioxide Grafted on Graphene Oxide: Hybrid Nanofiller for Effective and Low-Cost Proton Exchange Membranes. Nanomaterials, 2020, 10, 1572.	1.9	14
71	Electrochemical Performance and Alkaline Stability of Cross-linked Quaternized Polyepichlorohydrin/PvDF Blends for Anion-Exchange Membrane Fuel Cells. Journal of Physical Chemistry C, 2021, 125, 5494-5504.	1.5	14
72	Sodiated Nafion membranes for sodium metal aprotic batteries. Electrochimica Acta, 2022, 410, 139936.	2.6	14

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73	N,N'-Hexadecanoyl l-2-diaminomethyl-18-crown-6 surfactant: Synthesis and aggregation features in aqueous solution. Colloids and Surfaces B: Biointerfaces, 2008, 61, 30-38.	2.5	13
74	Solution microstructures of the micellar phase of Pluronic L64/SDS/water system. Journal of Colloid and Interface Science, 2010, 342, 348-353.	5.0	13
75	Hexagonal Mesoporous Silica for carbon capture: Unrevealing CO2 microscopic dynamics by Nuclear Magnetic Resonance. Journal of CO2 Utilization, 2022, 55, 101809.	3.3	13
76	A new physicochemical characterization of sodium taurodeoxycholate/water system. Physical Chemistry Chemical Physics, 2008, 10, 6880.	1.3	11
77	Solution Casting Blending: An Effective Way for Tailoring Gas Transport and Mechanical Properties of Poly(vinyl butyral) and Pebax2533. Journal of Physical Chemistry C, 2019, 123, 11264-11272.	1.5	10
78	Decoupling of Dynamic Processes in Surfactant-Based Liquid Mixtures: The Case of Lithium-Containing Bis(2-ethylhexyl)phosphoric Acid/Bis(2-ethylhexyl)amine Systems. Langmuir, 2014, 30, 8336-8341.	1.6	9
79	Microscopic and macroscopic investigation on the gas diffusion in poly(ether-block-amide) membranes doped with polysorbate nonionic surfactants. Polymer, 2020, 209, 122949.	1.8	8
80	Anisotropic behavior of mechanically extruded sulfonated polysulfone: Implications for proton exchange membrane fuel cell applications. Solid State Ionics, 2021, 362, 115581.	1.3	8
81	MRI Experiments as a Tool to Study Asymptotic-Shear Flow Behaviour of a Worm-Like Reverse Micellar Phase. Applied Rheology, 2006, 16, 190-197.	3.5	7
82	Solid-State NMR Characterization of Electrolyte Breakdown Products in Nonaqueous Asymmetric Hybrid Supercapacitors. Electrochemical and Solid-State Letters, 2007, 10, A5.	2.2	7
83	Quaternized polyepichlorohydrin-based membrane as high-selective CO2 sorbent for cost-effective carbon capture. Journal of CO2 Utilization, 2022, 63, 102135.	3.3	7
84	New Insights into Properties of Methanol Transport in Sulfonated Polysulfone Composite Membranes for Direct Methanol Fuel Cells. Polymers, 2021, 13, 1386.	2.0	6
85	The impact of carbonation on hydroxide diffusion in nano-confined anion exchange membranes. Journal of Materials Chemistry A, 2022, 10, 11137-11149.	5.2	6
86	A Defective Lamellar Phase in a Nonionic Surfactant Water System Studied by NMR Methods. Molecular Crystals and Liquid Crystals, 2003, 398, 157-167.	0.4	5
87	Dynamic Rheological Analysis of MLVs and Lamellar Phases in the System C12E4 / D2O. Applied Rheology, 2005, 15, 230-237.	3.5	5
88	Effect of shear on vesicle and lamellar phases of DDAB/lecithin ternary systems. Journal of Colloid and Interface Science, 2011, 358, 506-512.	5.0	5
89	Bis(2-ethylhexyl)phosphoric acid/bis(2-ethylhexyl)amine mixtures as solvent media for lithium-ions: A dynamical study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 489, 447-453.	2.3	5
90	Sulfonated Polyether Ether Ketone and Organosilica Layered Nanofiller for Sustainable Proton Exchange Membranes Fuel Cells (PEMFCs). Applied Sciences (Switzerland), 2022, 12, 963.	1.3	5

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91	Azimuthal anchoring energy of a chiral nematic in cylindrical cavities. Applied Physics Letters, 1999, 75, 343-345.	1.5	4
92	Spectromechanical Properties of Polymeric Gel Electrolytes and Blends. Macromolecular Symposia, 2007, 247, 282-294.	0.4	4
93	Indirect detection of structural changes on the pluronic Pe 6200/H2O system by rheological measurements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 245, 183-192.	2.3	3
94	Gi Protein Modulation of the Potassium Channel TASK-2 Mediates Vesicle Osmotic Swelling to Facilitate the Fusion of Aquaporin-2 Water Channel Containing Vesicles. Cells, 2018, 7, 276.	1.8	3
95	Aqueous self-assembly and physicochemical properties of 1,2-dilauroyl-rac-glycero-3-(Nα-acetyl-l-arginine). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 327, 111-121.	2.3	2
96	Nafion-based cation-exchange membranes for direct methanol fuel cells. , 2020, , 13-36.		2
97	Elucidating the Water and Methanol Dynamics in Sulfonated Polyether Ether Ketone Nanocomposite Membranes Bearing Layered Double Hydroxides. Membranes, 2022, 12, 419.	1.4	2
98	Rheological Properties of the Reverse Mesophases of the Pluronic L64/P-Xylene/Water System. Applied Rheology, 2004, 14, 315-323.	3.5	1
99	Mechanical properties of PAN-based gel electrolytes: small-amplitude oscillatory shear study. Plastics, Rubber and Composites, 2004, 33, 125-129.	0.9	1
100	AQUEOUS MICROSTRUCTURES OF PLURONIC L64â^•SDS SYSTEM: NMR SELF-DIFFUSION AND FLOW BEHAVIOU AIP Conference Proceedings, 2008, , .	R. _{0.3}	0
101	Photocatalytic properties of Nafion membranes containing graphene oxide/titania nanocomposites. , 2014, , .		0