## Yossef A Elabd

List of Publications by Year in descending order

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57719 60583 6,788 106 44 81 citations h-index g-index papers 110 110 110 6097 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	3D patterned electrodes for ultra-low platinum fuel cells. International Journal of Hydrogen Energy, 2022, 47, 8993-9003.	3.8	1
2	Dehumidification via polymer electrolyte membrane electrolysis with sulfonated pentablock terpolymer. Journal of Membrane Science, 2022, 658, 120709.	4.1	6
3	Lithium-Ion Transport in Poly(ionic liquid) Diblock Copolymer Electrolytes: Impact of Salt Concentration and Cation and Anion Chemistry. Macromolecules, 2021, 54, 8780-8797.	2.2	13
4	Sulfonated pentablock terpolymers as membranes and ionomers in hydrogen fuel cells. Journal of Membrane Science, 2021, 633, 119330.	4.1	15
5	Characterization of a Sulfonated Poly(Ionic Liquid) Block Copolymer as an Ionomer for Proton Exchange Membrane Fuel Cells using Rotating Disk Electrode. Journal of the Electrochemical Society, 2021, 168, 124511.	1.3	6
6	Impact of ionic liquid on lithium ion battery with a solid poly(ionic liquid) pentablock terpolymer as electrolyte and separator. Polymer, 2020, 209, 122975.	1.8	11
7	Modifying the Electrocatalyst–Ionomer Interface via Sulfonated Poly(ionic liquid) Block Copolymers to Enable High-Performance Polymer Electrolyte Fuel Cells. ACS Energy Letters, 2020, 5, 1726-1731.	8.8	50
8	Modeling and Observer-Based Monitoring of RAFT Homopolymerization Reactions. Processes, 2019, 7, 768.	1.3	6
9	High Production Rate of High Purity, High Fidelity Nafion Nanofibers via Needleless Electrospinning. ACS Applied Polymer Materials, 2019, 1, 2731-2740.	2.0	28
10	Nitrogenâ€doped carbons derived from poly(ionic liquid)s with various backbones and cations. Polymer International, 2019, 68, 1599-1609.	1.6	5
11	Synthesis and High Alkaline Chemical Stability of Polyionic Liquids with Methylpyrrolidinium, Methylazepanium, Methylazocanium, and Methylazonanium Cations. ACS Macro Letters, 2019, 8, 540-545.	2.3	29
12	lon transport in hydroxide conducting block copolymers. Molecular Systems Design and Engineering, 2019, 4, 519-530.	1.7	23
13	Impact of ionomer resistance in nanofiber-nanoparticle electrodes for ultra-low platinum fuel cells. International Journal of Hydrogen Energy, 2019, 44, 6245-6256.	3.8	16
14	Lithium ion conducting polymerized ionic liquid pentablock terpolymers as solid-state electrolytes. Polymer, 2019, 161, 128-138.	1.8	16
15	Room Temperature Solid-State Lithium Polymer Battery with Polyionic Liquid Pentablock Terpolymer Electrolyte. ECS Meeting Abstracts, 2019, , .	0.0	O
16	Alkaline Fuel Cell Performance of Saturated N-Heterocyclic Cationic Multiblock Polymers. ECS Meeting Abstracts, 2019, , .	0.0	0
17	Hydroxide conducting polymerized ionic liquid pentablock terpolymer anion exchange membranes with methylpyrrolidinium cations. Polymer, 2018, 134, 221-226.	1.8	26
18	Hybrid-Capacitors with Polyaniline/Carbon Electrodes Fabricated via Simultaneous Electrospinning/Electrospraying. Electrochimica Acta, 2017, 229, 65-72.	2.6	20

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19	Diffusion of Liquid Water in Free-Standing Polymer Films Using Pressure-Contact Time-Resolved Fourier Transform Infrared Attenuated Total Reflectance Spectroscopy. Industrial & Engineering Chemistry Research, 2017, 56, 3464-3476.	1.8	13
20	Sulfonated Polymerized Ionic Liquid Block Copolymers. Macromolecular Rapid Communications, 2016, 37, 1200-1206.	2.0	13
21	Effect of alkaline exchange polymerized ionic liquid block copolymer ionomers on the kinetics of fuel cell half reactions. Journal of Electroanalytical Chemistry, 2016, 783, 182-187.	1.9	9
22	Highly porous Ti <sub>4</sub> O <sub>7</sub> reactive electrochemical water filtration membranes fabricated via electrospinning/electrospraying. AICHE Journal, 2016, 62, 508-524.	1.8	36
23	Alkaline Chemical Stability and Ion Transport in Polymerized Ionic Liquids with Various Backbones and Cations. Macromolecules, 2016, 49, 3382-3394.	2.2	68
24	Polymerized ionic liquid diblock copolymer as solid-state electrolyte and separator in lithium-ion battery. Polymer, 2016, 101, 311-318.	1.8	43
25	Ionic Liquids in Polymer Design. Macromolecular Rapid Communications, 2016, 37, 1105-1105.	2.0	6
26	Polymerized ionic liquid diblock copolymer as an ionomer and anion exchange membrane for alkaline fuel cells. Chemical Engineering Science, 2016, 154, 119-127.	1.9	30
27	Polymerized ionic liquid diblock copolymers: impact of water/ion clustering on ion conductivity. Soft Matter, 2016, 12, 1133-1144.	1.2	33
28	Bromide and Hydroxide Conductivity–Morphology Relationships in Polymerized Ionic Liquid Block Copolymers. Macromolecules, 2015, 48, 4850-4862.	2.2	55
29	Binder-free three-dimensional high energy density electrodes for ionic-liquid supercapacitors. Chemical Communications, 2015, 51, 13760-13763.	2.2	25
30	Influence of water vapor on the gas permeability of polymerized ionic liquids membranes. Journal of Membrane Science, 2015, 487, 199-208.	4.1	36
31	The Further Improvement of the Ionic Thermoelectric Generator. IEEE Transactions on Industry Applications, 2015, 51, 1132-1136.	3.3	3
32	Polymerized ionic liquid block copolymers for electrochemical energy. Journal of Materials Chemistry A, 2015, 3, 24187-24194.	5.2	72
33	Alkaline Chemical Stability of Polymerized Ionic Liquids with Various Cations. Macromolecules, 2015, 48, 7071-7084.	2.2	73
34	Nanofiber Cathode Catalyst Layer Model for a Proton Exchange Membrane Fuel Cell. Journal of Fuel Cell Science and Technology, 2014, 11, .	0.8	8
35	Enzymatic Writing to Soft Films: Potential to Filter, Store, and Analyze Biologically Relevant Chemical Information. Advanced Functional Materials, 2014, 24, 480-491.	7.8	17
36	Ultra-low platinum loadings in polymer electrolyte membrane fuel cell electrodes fabricated via simultaneous electrospinning/electrospraying method. Journal of Power Sources, 2014, 264, 42-48.	4.0	58

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37	Polymerized ionic liquid diblock copolymers with long alkyl side-chain length. Polymer, 2014, 55, 3360-3369.	1.8	40
38	Dielectric and Viscoelastic Responses of Imidazolium-Based Ionomers with Different Counterions and Side Chain Lengths. Macromolecules, 2014, 47, 777-790.	2.2	179
39	Prediction and validation of diffusion coefficients in a model drug delivery system using microsecond atomistic molecular dynamics simulation and vapour sorption analysis. Soft Matter, 2014, 10, 7480-7494.	1.2	39
40	Effect of Polytetrafluoroethylene on Ultra-Low Platinum Loaded Electrospun/Electrosprayed Electrodes in Proton Exchange Membrane Fuel Cells. Electrochimica Acta, 2014, 139, 217-224.	2.6	28
41	lonic Liquid Dynamics in Nanoporous Carbon Nanofibers in Supercapacitors Measured with <i>in Operando</i> Infrared Spectroelectrochemistry. Journal of Physical Chemistry C, 2014, 118, 21846-21855.	1.5	64
42	Supramolecular Multiblock Polystyrene–Polyisobutylene Copolymers via Ionic Interactions. Macromolecules, 2014, 47, 4387-4396.	2.2	61
43	HAADF STEM of Phase Separated Anion Exchange Membranes Prepared by Ultracryomicrotomy. Microscopy and Microanalysis, 2014, 20, 470-471.	0.2	0
44	Anion exchange membranes derived from nafion precursor for the alkaline fuel cell: Effect of cation type on properties. Journal of Applied Polymer Science, 2013, 127, 298-307.	1.3	21
45	Bicontinuous Alkaline Fuel Cell Membranes from Strongly Self-Segregating Block Copolymers. Macromolecules, 2013, 46, 7332-7340.	2.2	59
46	Water Clustering in Glassy Polymers. Journal of Physical Chemistry B, 2013, 117, 10629-10640.	1.2	65
47	lon Dynamics in Porous Carbon Electrodes in Supercapacitors Using in Situ Infrared Spectroelectrochemistry. Journal of the American Chemical Society, 2013, 135, 12818-12826.	6.6	174
48	Prediction of Water Solubility in Glassy Polymers Using Nonequilibrium Thermodynamics. Industrial & Lamp; Engineering Chemistry Research, 2013, 52, 12865-12875.	1.8	22
49	In Situ Spectroscopic Measurements of Individual Cation and Anion Dynamics in a RuO <sub>2</sub> Electrochemical Capacitor. Journal of the Electrochemical Society, 2013, 160, A862-A868.	1.3	6
50	Network Structure and Strong Microphase Separation for High Ion Conductivity in Polymerized Ionic Liquid Block Copolymers. Macromolecules, 2013, 46, 5290-5300.	2.2	156
51	High Hydroxide Conductivity in Polymerized Ionic Liquid Block Copolymers. ACS Macro Letters, 2013, 2, 575-580.	2.3	111
52	Non-Fickian Diffusion of Water in Polylactide. Industrial & Engineering Chemistry Research, 2013, 52, 8664-8673.	1.8	31
53	Development of phosphonium-based bicarbonate anion exchange polymer membranes. Journal of Membrane Science, 2013, 443, 93-99.	4.1	45
54	The further improvement of the ionic thermoelectric generator., 2013,,.		0

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55	Polymerized Ionic Liquid Block and Random Copolymers: Effect of Weak Microphase Separation on Ion Transport. Macromolecules, 2012, 45, 7027-7035.	2.2	164
56	In Situ Molecular Level Measurements of Ion Dynamics in an Electrochemical Capacitor. Journal of Physical Chemistry Letters, 2012, 3, 3297-3301.	2.1	23
57	Tuning Ion Conducting Pathways Using Holographic Polymerization. Nano Letters, 2012, 12, 310-314.	4.5	46
58	Nonequilibrium Sorption of Water in Polylactide. Macromolecules, 2012, 45, 7486-7494.	2.2	44
59	Correlating backboneâ€toâ€backbone distance to ionic conductivity in amorphous polymerized ionic liquids. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 338-346.	2.4	122
60	Anion exchange membranes derived from nafion precursor for the alkaline fuel cell. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 552-562.	2.4	35
61	Chemical Stability of Anion Exchange Membranes for Alkaline Fuel Cells. ACS Symposium Series, 2012, , 233-251.	0.5	16
62	Block Copolymers for Fuel Cells. Macromolecules, 2011, 44, 1-11.	2.2	465
63	Super Proton Conductive Nafion Nanofibers: Discovery, Fabrication, Properties, and Fuel Cell Performance. ECS Transactions, 2011, 41, 1503-1506.	0.3	3
64	Chemical Bath Deposition of ZnO Nanowires at Near-Neutral pH Conditions without Hexamethylenetetramine (HMTA): Understanding the Role of HMTA in ZnO Nanowire Growth. Langmuir, 2011, 27, 3672-3677.	1.6	123
65	Relative Chemical Stability of Imidazolium-Based Alkaline Anion Exchange Polymerized Ionic Liquids. Macromolecules, 2011, 44, 8494-8503.	2.2	261
66	Effect of Nanoscale Morphology on the Conductivity of Polymerized Ionic Liquid Block Copolymers. Macromolecules, 2011, 44, 5727-5735.	2.2	258
67	Liquid Water Transport in Polylactide Homo and Graft Copolymers. ACS Applied Materials & Copolymers. A	4.0	27
68	The influence of thermal history on structure and water transport in Parylene C coatings. Polymer, 2011, 52, 5378-5386.	1.8	56
69	Thermal and ion transport properties of hydrophilic and hydrophobic polymerized styrenic imidazolium ionic liquids. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1287-1296.	2.4	66
70	Alkylâ€Substituted <i>N</i> àêVinylimidazolium Polymerized Ionic Liquids: Thermal Properties and Ionic Conductivities. Macromolecular Chemistry and Physics, 2011, 212, 2522-2528.	1.1	139
71	Anion exchanged polymerized ionic liquids: High free volume single ion conductors. Polymer, 2011, 52, 1309-1317.	1.8	165
72	Kinetic and thermomechanical analysis of hydrophobic–hydrophilic copolymer thermosets synthesized via freeâ€radical polymerization. Journal of Applied Polymer Science, 2010, 115, 1419-1427.	1.3	2

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73	Block copolymer/ionic liquid films: The effect of ionic liquid composition on morphology and ion conduction. Polymer, 2010, 51, 5516-5524.	1.8	96
74	Nanoporous and proton conductive hydrophobic–hydrophilic copolymer thermoset membranes. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1245-1255.	2.4	5
75	Water Transport in Proton Exchange Membranes: Insights from Time-Resolved Infrared Spectroscopy. ECS Transactions, 2010, 33, 1029-1033.	0.3	2
76	Super Proton Conductive High-Purity Nafion Nanofibers. Nano Letters, 2010, 10, 3785-3790.	4.5	260
77	Single-Wall Carbon Nanotube Latexes. ACS Applied Materials & Samp; Interfaces, 2010, 2, 649-653.	4.0	48
78	Non-Fickian Diffusion of Water in Nafion. Macromolecules, 2010, 43, 4667-4678.	2.2	86
79	Nafion $\hat{A}^{\otimes}$ nanofibers and their effect on polymer electrolyte membrane fuel cell performance. Journal of Power Sources, 2009, 186, 385-392.	4.0	35
80	Polymer-Polymer Nanocomposite Membranes as Breathable Barriers with Electro-Sensitive Permeability. ACS Symposium Series, 2009, , 307-322.	0.5	4
81	Polymerized Ionic Liquids: The Effect of Random Copolymer Composition on Ion Conduction. Macromolecules, 2009, 42, 4809-4816.	2.2	194
82	Highly Selective Polymer Electrolyte Membranes from Reactive Block Polymers. Macromolecules, 2009, 42, 6075-6085.	2.2	79
83	Diffusion of Water in Nafion Using Time-Resolved Fourier Transform Infraredâ^'Attenuated Total Reflectance Spectroscopy. Journal of Physical Chemistry B, 2009, 113, 4257-4266.	1.2	82
84	Polymerized Ionic Liquids: Solution Properties and Electrospinning. Macromolecules, 2009, 42, 3368-3373.	2.2	81
85	Electrospinning and Solution Properties of Nafion and Poly(acrylic acid). Macromolecules, 2008, 41, 128-135.	2.2	147
86	Sorption and Diffusion Selectivity of Methanol/Water Mixtures in NAFION. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 189-208.	0.1	3
87	Diffusion and Sorption of Methanol and Water in Nafion Using Time-Resolved Fourier Transform Infraredâ^'Attenuated Total Reflectance Spectroscopy. Journal of Physical Chemistry B, 2007, 111, 13221-13230.	1.2	93
88	Plasma-aided template synthesis of inorganic nanotubes and nanorods. Journal of Materials Chemistry, 2007, 17, 1593.	6.7	17
89	Electrosensitive Permeability of Membranes with Oriented Polyelectrolyte Nanodomains. Macromolecules, 2007, 40, 781-782.	2.2	43
90	Plasma assisted synthesis of hollow nanofibers using electrospun sacrificial templates. Nuclear Instruments & Methods in Physics Research B, 2007, 265, 23-30.	0.6	8

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91	Membranes with Oriented Polyelectrolyte Nanodomains. Chemistry of Materials, 2006, 18, 4875-4881.	3.2	54
92	Polymer electrolyte membranes for the direct methanol fuel cell: A review. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2201-2225.	2.4	414
93	Direct methanol fuel cell performance of Nafion $\hat{A}^{@}/\text{poly}(\text{vinyl alcohol})$ blend membranes. Journal of Power Sources, 2006, 163, 386-391.	4.0	74
94	Nafion $\hat{A}^{@}$ /poly(vinyl alcohol) blends: Effect of composition and annealing temperature on transport properties. Journal of Membrane Science, 2006, 282, 217-224.	4.1	103
95	Transport Properties of Sulfonated Poly(styrene-b-isobutylene-b-styrene) Triblock Copolymers at High Ion-Exchange Capacities. Macromolecules, 2006, 39, 399-407.	2.2	171
96	Thermogravimetric characterization of sulfonated poly(styrene-isobutylene-styrene) block copolymers: effects of processing conditions. Thermochimica Acta, 2005, 430, 149-154.	1.2	32
97	Biomimetic Pattern Transfer. Advanced Functional Materials, 2005, 15, 189-195.	7.8	56
98	Sulfonation and characterization of poly(styrene-isobutylene-styrene) triblock copolymers at high ion-exchange capacities. Polymer, 2004, 45, 3037-3043.	1.8	114
99	Triblock copolymer ionomer membranes. Journal of Membrane Science, 2004, 231, 181-188.	4.1	133
100	Triblock copolymer ionomer membranes. Journal of Membrane Science, 2003, 217, 227-242.	4.1	217
101	Time-resolved Fourier transform infrared/attenuated total reflection spectroscopy for the measurement of molecular diffusion in polymers. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 2794-2807.	2.4	63
102	Multicomponent diffusion of hydrogen-bonding solutes in a polymer. AICHE Journal, 2002, 48, 1610-1620.	1.8	19
103	Acetic Acid Diffusion in Polyisobutylene:Â Probing Small Molecule Structures. Industrial & Engineering Chemistry Research, 2001, 40, 3076-3084.	1.8	7
104	Effect of Penetrantâ^'Polymer Interactions on Molecular Diffusion in Conformational Isomers of a Heterogeneous Polymer. Macromolecules, 2001, 34, 6268-6273.	2.2	15
105	Separating solvation from molecular diffusion in polymers. AICHE Journal, 2001, 47, 1255-1262.	1.8	21
106	Diffusion of acetonitrile in conformational isomers of an H12MDI polyurethane. Polymer, 2000, 41, 2203-2212.	1.8	18