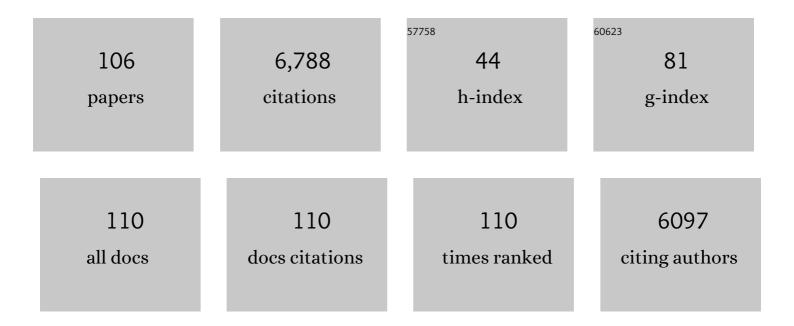
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6123751/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Block Copolymers for Fuel Cells. Macromolecules, 2011, 44, 1-11.	4.8	465
2	Polymer electrolyte membranes for the direct methanol fuel cell: A review. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2201-2225.	2.1	414
3	Relative Chemical Stability of Imidazolium-Based Alkaline Anion Exchange Polymerized Ionic Liquids. Macromolecules, 2011, 44, 8494-8503.	4.8	261
4	Super Proton Conductive High-Purity Nafion Nanofibers. Nano Letters, 2010, 10, 3785-3790.	9.1	260
5	Effect of Nanoscale Morphology on the Conductivity of Polymerized Ionic Liquid Block Copolymers. Macromolecules, 2011, 44, 5727-5735.	4.8	258
6	Triblock copolymer ionomer membranes. Journal of Membrane Science, 2003, 217, 227-242.	8.2	217
7	Polymerized Ionic Liquids: The Effect of Random Copolymer Composition on Ion Conduction. Macromolecules, 2009, 42, 4809-4816.	4.8	194
8	Dielectric and Viscoelastic Responses of Imidazolium-Based Ionomers with Different Counterions and Side Chain Lengths. Macromolecules, 2014, 47, 777-790.	4.8	179
9	Ion Dynamics in Porous Carbon Electrodes in Supercapacitors Using in Situ Infrared Spectroelectrochemistry. Journal of the American Chemical Society, 2013, 135, 12818-12826.	13.7	174
10	Transport Properties of Sulfonated Poly(styrene-b-isobutylene-b-styrene) Triblock Copolymers at High Ion-Exchange Capacities. Macromolecules, 2006, 39, 399-407.	4.8	171
11	Anion exchanged polymerized ionic liquids: High free volume single ion conductors. Polymer, 2011, 52, 1309-1317.	3.8	165
12	Polymerized Ionic Liquid Block and Random Copolymers: Effect of Weak Microphase Separation on Ion Transport. Macromolecules, 2012, 45, 7027-7035.	4.8	164
13	Network Structure and Strong Microphase Separation for High Ion Conductivity in Polymerized Ionic Liquid Block Copolymers. Macromolecules, 2013, 46, 5290-5300.	4.8	156
14	Electrospinning and Solution Properties of Nafion and Poly(acrylic acid). Macromolecules, 2008, 41, 128-135.	4.8	147
15	Alkyl‣ubstituted <i>N</i> â€Vinylimidazolium Polymerized Ionic Liquids: Thermal Properties and Ionic Conductivities. Macromolecular Chemistry and Physics, 2011, 212, 2522-2528.	2.2	139
16	Triblock copolymer ionomer membranes. Journal of Membrane Science, 2004, 231, 181-188.	8.2	133
17	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.	3.5	123
18	Correlating backboneâ€ŧoâ€backbone distance to ionic conductivity in amorphous polymerized ionic liquids. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 338-346.	2.1	122

#	Article	IF	CITATIONS
19	Sulfonation and characterization of poly(styrene-isobutylene-styrene) triblock copolymers at high ion-exchange capacities. Polymer, 2004, 45, 3037-3043.	3.8	114
20	High Hydroxide Conductivity in Polymerized Ionic Liquid Block Copolymers. ACS Macro Letters, 2013, 2, 575-580.	4.8	111
21	Nafion®/poly(vinyl alcohol) blends: Effect of composition and annealing temperature on transport properties. Journal of Membrane Science, 2006, 282, 217-224.	8.2	103
22	Block copolymer/ionic liquid films: The effect of ionic liquid composition on morphology and ion conduction. Polymer, 2010, 51, 5516-5524.	3.8	96
23	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.	2.6	93
24	Non-Fickian Diffusion of Water in Nafion. Macromolecules, 2010, 43, 4667-4678.	4.8	86
25	Diffusion of Water in Nafion Using Time-Resolved Fourier Transform Infraredâ^'Attenuated Total Reflectance Spectroscopy. Journal of Physical Chemistry B, 2009, 113, 4257-4266.	2.6	82
26	Polymerized Ionic Liquids: Solution Properties and Electrospinning. Macromolecules, 2009, 42, 3368-3373.	4.8	81
27	Highly Selective Polymer Electrolyte Membranes from Reactive Block Polymers. Macromolecules, 2009, 42, 6075-6085.	4.8	79
28	Direct methanol fuel cell performance of Nafion®/poly(vinyl alcohol) blend membranes. Journal of Power Sources, 2006, 163, 386-391.	7.8	74
29	Alkaline Chemical Stability of Polymerized Ionic Liquids with Various Cations. Macromolecules, 2015, 48, 7071-7084.	4.8	73
30	Polymerized ionic liquid block copolymers for electrochemical energy. Journal of Materials Chemistry A, 2015, 3, 24187-24194.	10.3	72
31	Alkaline Chemical Stability and Ion Transport in Polymerized Ionic Liquids with Various Backbones and Cations. Macromolecules, 2016, 49, 3382-3394.	4.8	68
32	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.	2.1	66
33	Water Clustering in Glassy Polymers. Journal of Physical Chemistry B, 2013, 117, 10629-10640.	2.6	65
34	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.	3.1	64
35	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.	2.1	63
36	Supramolecular Multiblock Polystyrene–Polyisobutylene Copolymers via Ionic Interactions. Macromolecules, 2014, 47, 4387-4396.	4.8	61

#	Article	IF	CITATIONS
37	Bicontinuous Alkaline Fuel Cell Membranes from Strongly Self-Segregating Block Copolymers. Macromolecules, 2013, 46, 7332-7340.	4.8	59
38	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.	7.8	58
39	Biomimetic Pattern Transfer. Advanced Functional Materials, 2005, 15, 189-195.	14.9	56
40	The influence of thermal history on structure and water transport in Parylene C coatings. Polymer, 2011, 52, 5378-5386.	3.8	56
41	Bromide and Hydroxide Conductivity–Morphology Relationships in Polymerized Ionic Liquid Block Copolymers. Macromolecules, 2015, 48, 4850-4862.	4.8	55
42	Membranes with Oriented Polyelectrolyte Nanodomains. Chemistry of Materials, 2006, 18, 4875-4881.	6.7	54
43	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.	17.4	50
44	Single-Wall Carbon Nanotube Latexes. ACS Applied Materials & amp; Interfaces, 2010, 2, 649-653.	8.0	48
45	Tuning Ion Conducting Pathways Using Holographic Polymerization. Nano Letters, 2012, 12, 310-314.	9.1	46
46	Development of phosphonium-based bicarbonate anion exchange polymer membranes. Journal of Membrane Science, 2013, 443, 93-99.	8.2	45
47	Nonequilibrium Sorption of Water in Polylactide. Macromolecules, 2012, 45, 7486-7494.	4.8	44
48	Electrosensitive Permeability of Membranes with Oriented Polyelectrolyte Nanodomains. Macromolecules, 2007, 40, 781-782.	4.8	43
49	Polymerized ionic liquid diblock copolymer as solid-state electrolyte and separator in lithium-ion battery. Polymer, 2016, 101, 311-318.	3.8	43
50	Polymerized ionic liquid diblock copolymers with long alkyl side-chain length. Polymer, 2014, 55, 3360-3369.	3.8	40
51	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.	2.7	39
52	Influence of water vapor on the gas permeability of polymerized ionic liquids membranes. Journal of Membrane Science, 2015, 487, 199-208.	8.2	36
53	Highly porous Ti ₄ O ₇ reactive electrochemical water filtration membranes fabricated via electrospinning/electrospraying. AICHE Journal, 2016, 62, 508-524.	3.6	36
54	Nafion® nanofibers and their effect on polymer electrolyte membrane fuel cell performance. Journal of Power Sources, 2009, 186, 385-392.	7.8	35

#	Article	IF	CITATIONS
55	Anion exchange membranes derived from nafion precursor for the alkaline fuel cell. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 552-562.	2.1	35
56	Polymerized ionic liquid diblock copolymers: impact of water/ion clustering on ion conductivity. Soft Matter, 2016, 12, 1133-1144.	2.7	33
57	Thermogravimetric characterization of sulfonated poly(styrene-isobutylene-styrene) block copolymers: effects of processing conditions. Thermochimica Acta, 2005, 430, 149-154.	2.7	32
58	Non-Fickian Diffusion of Water in Polylactide. Industrial & Engineering Chemistry Research, 2013, 52, 8664-8673.	3.7	31
59	Polymerized ionic liquid diblock copolymer as an ionomer and anion exchange membrane for alkaline fuel cells. Chemical Engineering Science, 2016, 154, 119-127.	3.8	30
60	Synthesis and High Alkaline Chemical Stability of Polyionic Liquids with Methylpyrrolidinium, Methylpiperidinium, Methylazepanium, Methylazocanium, and Methylazonanium Cations. ACS Macro Letters, 2019, 8, 540-545.	4.8	29
61	Effect of Polytetrafluoroethylene on Ultra-Low Platinum Loaded Electrospun/Electrosprayed Electrodes in Proton Exchange Membrane Fuel Cells. Electrochimica Acta, 2014, 139, 217-224.	5.2	28
62	High Production Rate of High Purity, High Fidelity Nafion Nanofibers via Needleless Electrospinning. ACS Applied Polymer Materials, 2019, 1, 2731-2740.	4.4	28
63	Liquid Water Transport in Polylactide Homo and Graft Copolymers. ACS Applied Materials & Interfaces, 2011, 3, 3997-4006.	8.0	27
64	Hydroxide conducting polymerized ionic liquid pentablock terpolymer anion exchange membranes with methylpyrrolidinium cations. Polymer, 2018, 134, 221-226.	3.8	26
65	Binder-free three-dimensional high energy density electrodes for ionic-liquid supercapacitors. Chemical Communications, 2015, 51, 13760-13763.	4.1	25
66	In Situ Molecular Level Measurements of Ion Dynamics in an Electrochemical Capacitor. Journal of Physical Chemistry Letters, 2012, 3, 3297-3301.	4.6	23
67	Ion transport in hydroxide conducting block copolymers. Molecular Systems Design and Engineering, 2019, 4, 519-530.	3.4	23
68	Prediction of Water Solubility in Glassy Polymers Using Nonequilibrium Thermodynamics. Industrial & Engineering Chemistry Research, 2013, 52, 12865-12875.	3.7	22
69	Separating solvation from molecular diffusion in polymers. AICHE Journal, 2001, 47, 1255-1262.	3.6	21
70	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.	2.6	21
71	Hybrid-Capacitors with Polyaniline/Carbon Electrodes Fabricated via Simultaneous Electrospinning/Electrospraying. Electrochimica Acta, 2017, 229, 65-72.	5.2	20
72	Multicomponent diffusion of hydrogen-bonding solutes in a polymer. AICHE Journal, 2002, 48, 1610-1620.	3.6	19

#	Article	IF	CITATIONS
73	Diffusion of acetonitrile in conformational isomers of an H12MDI polyurethane. Polymer, 2000, 41, 2203-2212.	3.8	18
74	Plasma-aided template synthesis of inorganic nanotubes and nanorods. Journal of Materials Chemistry, 2007, 17, 1593.	6.7	17
75	Enzymatic Writing to Soft Films: Potential to Filter, Store, and Analyze Biologically Relevant Chemical Information. Advanced Functional Materials, 2014, 24, 480-491.	14.9	17
76	Chemical Stability of Anion Exchange Membranes for Alkaline Fuel Cells. ACS Symposium Series, 2012, , 233-251.	0.5	16
77	Impact of ionomer resistance in nanofiber-nanoparticle electrodes for ultra-low platinum fuel cells. International Journal of Hydrogen Energy, 2019, 44, 6245-6256.	7.1	16
78	Lithium ion conducting polymerized ionic liquid pentablock terpolymers as solid-state electrolytes. Polymer, 2019, 161, 128-138.	3.8	16
79	Effect of Penetrantâ ``Polymer Interactions on Molecular Diffusion in Conformational Isomers of a Heterogeneous Polymer. Macromolecules, 2001, 34, 6268-6273.	4.8	15
80	Sulfonated pentablock terpolymers as membranes and ionomers in hydrogen fuel cells. Journal of Membrane Science, 2021, 633, 119330.	8.2	15
81	Sulfonated Polymerized Ionic Liquid Block Copolymers. Macromolecular Rapid Communications, 2016, 37, 1200-1206.	3.9	13
82	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.	3.7	13
83	Lithium-Ion Transport in Poly(ionic liquid) Diblock Copolymer Electrolytes: Impact of Salt Concentration and Cation and Anion Chemistry. Macromolecules, 2021, 54, 8780-8797.	4.8	13
84	Impact of ionic liquid on lithium ion battery with a solid poly(ionic liquid) pentablock terpolymer as electrolyte and separator. Polymer, 2020, 209, 122975.	3.8	11
85	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.	3.8	9
86	Plasma assisted synthesis of hollow nanofibers using electrospun sacrificial templates. Nuclear Instruments & Methods in Physics Research B, 2007, 265, 23-30.	1.4	8
87	Nanofiber Cathode Catalyst Layer Model for a Proton Exchange Membrane Fuel Cell. Journal of Fuel Cell Science and Technology, 2014, 11, .	0.8	8
88	Acetic Acid Diffusion in Polyisobutylene:Â Probing Small Molecule Structures. Industrial & Engineering Chemistry Research, 2001, 40, 3076-3084.	3.7	7
89	In Situ Spectroscopic Measurements of Individual Cation and Anion Dynamics in a RuO ₂ Electrochemical Capacitor. Journal of the Electrochemical Society, 2013, 160, A862-A868.	2.9	6
90	Ionic Liquids in Polymer Design. Macromolecular Rapid Communications, 2016, 37, 1105-1105.	3.9	6

#	Article	IF	CITATIONS
91	Modeling and Observer-Based Monitoring of RAFT Homopolymerization Reactions. Processes, 2019, 7, 768.	2.8	6
92	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.	2.9	6
93	Dehumidification via polymer electrolyte membrane electrolysis with sulfonated pentablock terpolymer. Journal of Membrane Science, 2022, 658, 120709.	8.2	6
94	Nanoporous and proton conductive hydrophobic–hydrophilic copolymer thermoset membranes. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1245-1255.	2.1	5
95	Nitrogenâ€doped carbons derived from poly(ionic liquid)s with various backbones and cations. Polymer International, 2019, 68, 1599-1609.	3.1	5
96	Polymer-Polymer Nanocomposite Membranes as Breathable Barriers with Electro-Sensitive Permeability. ACS Symposium Series, 2009, , 307-322.	0.5	4
97	Super Proton Conductive Nafion Nanofibers: Discovery, Fabrication, Properties, and Fuel Cell Performance. ECS Transactions, 2011, 41, 1503-1506.	0.5	3
98	The Further Improvement of the Ionic Thermoelectric Generator. IEEE Transactions on Industry Applications, 2015, 51, 1132-1136.	4.9	3
99	Sorption and Diffusion Selectivity of Methanol/Water Mixtures in NAFION. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 189-208.	0.2	3
100	Kinetic and thermomechanical analysis of hydrophobic–hydrophilic copolymer thermosets synthesized via freeâ€radical polymerization. Journal of Applied Polymer Science, 2010, 115, 1419-1427.	2.6	2
101	Water Transport in Proton Exchange Membranes: Insights from Time-Resolved Infrared Spectroscopy. ECS Transactions, 2010, 33, 1029-1033.	0.5	2
102	3D patterned electrodes for ultra-low platinum fuel cells. International Journal of Hydrogen Energy, 2022, 47, 8993-9003.	7.1	1
103	The further improvement of the ionic thermoelectric generator. , 2013, , .		0
104	HAADF STEM of Phase Separated Anion Exchange Membranes Prepared by Ultracryomicrotomy. Microscopy and Microanalysis, 2014, 20, 470-471.	0.4	0
105	Room Temperature Solid-State Lithium Polymer Battery with Polyionic Liquid Pentablock Terpolymer Electrolyte. ECS Meeting Abstracts, 2019, , .	0.0	0
106	Alkaline Fuel Cell Performance of Saturated N-Heterocyclic Cationic Multiblock Polymers. ECS Meeting Abstracts, 2019, , .	0.0	0