Baijun Liu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6966366/publications.pdf

Version: 2024-02-01

		186265	197818
67	2,535	28	49
papers	citations	h-index	g-index

67	67	67	1757
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aromatic Poly(ether ketone)s with Pendant Sulfonic Acid Phenyl Groups Prepared by a Mild Sulfonation Method for Proton Exchange Membranesâ€. Macromolecules, 2007, 40, 1934-1944.	4.8	348
2	Toward Improved Conductivity of Sulfonated Aromatic Proton Exchange Membranes at Low Relative Humidity. Chemistry of Materials, 2008, 20, 5636-5642.	6.7	214
3	Highly Conductive and Mechanically Stable Imidazole-Rich Cross-Linked Networks for High-Temperature Proton Exchange Membrane Fuel Cells. Chemistry of Materials, 2020, 32, 1182-1191.	6.7	131
4	Poly(aryl ether ketone)s with (3-methyl)phenyl and (3-trifluoromethyl)phenyl side groups. Journal of Polymer Science Part A, 2002, 40, 3392-3398.	2.3	106
5	Soluble aromatic poly(ether ketone)s with a pendant 3,5-ditrifluoromethylphenyl group. Polymer, 2004, 45, 3241-3247.	3.8	105
6	Influence of silica content in sulfonated poly(arylene ether ether ketone ketone) (SPAEEKK) hybrid membranes on properties for fuel cell application. Polymer, 2006, 47, 7871-7880.	3.8	89
7	Construction of High-Performance, High-Temperature Proton Exchange Membranes through Incorporating SiO₂ Nanoparticles into Novel Cross-linked Polybenzimidazole Networks. ACS Applied Materials & Interfaces, 2019, 11, 30735-30746.	8.0	89
8	Poly(aryl ether ketone)s with carboxylic acid groups: synthesis, sulfonation and crosslinking. Journal of Materials Chemistry, 2008, 18, 4675.	6.7	73
9	Arylether-type polybenzimidazoles bearing benzimidazolyl pendants for high-temperature proton exchange membrane fuel cells. Journal of Power Sources, 2018, 393, 99-107.	7.8	73
10	Dimensionally-stable phosphoric acidâ€“doped polybenzimidazoles for high-temperature proton exchange membrane fuel cells. Journal of Power Sources, 2016, 336, 391-400.	7.8	71
11	Naphthalene-based poly(arylene ether ketone) anion exchange membranes. Journal of Materials Chemistry A, 2013, 1, 6481.	10.3	67
12	Toward enhanced conductivity of high-temperature proton exchange membranes: development of novel PIM-1 reinforced PBI alloy membranes. Chemical Communications, 2019, 55, 6491-6494.	4.1	62
13	Fluorenyl-containing sulfonated poly(aryl ether ether ketone ketone)s (SPFEEKK) for fuel cell applications. Journal of Membrane Science, 2006, 280, 54-64.	8.2	61
14	Increases in the proton conductivity and selectivity of proton exchange membranes for direct methanol fuel cells by formation of nanocomposites having proton conducting channels. Journal of Power Sources, 2009, 194, 206-213.	7.8	52
15	Novel proton exchange membranes based on structure-optimized poly(ether ether ketone ketone)s and nanocrystalline cellulose. Applied Surface Science, 2018, 434, 163-175.	6.1	52
16	Enhanced thermo-oxidative stability of sulfophenylated poly(ether sulfone)s. Polymer, 2010, 51, 403-413.	3.8	51
17	Novel acidâ€“base molecule-enhanced blends/copolymers for fuel cell applications. Journal of Power Sources, 2009, 189, 894-901.	7.8	49
18	Modified nanocrystal cellulose/fluorene-containing sulfonated poly(ether ether ketone ketone) composites for proton exchange membranes. Applied Surface Science, 2017, 416, 996-1006.	6.1	47

#	Article	IF	Citations
19	Synthesis and characterization of organosoluble ditrifluoromethylated aromatic polyimides. Journal of Polymer Science Part A, 2005, 43, 3018-3029.	2.3	46
20	Copoly(arylene ether nitrile)sâ€"High-Performance Polymer Electrolytes for Direct Methanol Fuel Cells. Journal of the Electrochemical Society, 2008, 155, B21.	2.9	42
21	Fabrication of PBI/SPOSS hybrid high-temperature proton exchange membranes using SPAEK as compatibilizer. Journal of Membrane Science, 2021, 620, 118855.	8.2	42
22	High performance direct methanol fuel cells based on acidâ€"base blend membranes containing benzotriazole. Electrochemistry Communications, 2010, 12, 607-610.	4.7	39
23	Sulfonated naphthalenic polyimides containing ether and ketone linkages as polymer electrolyte membranes. Journal of Membrane Science, 2011, 366, 73-81.	8.2	39
24	A novel phosphorus-containing lignin-based flame retardant and its application in polyurethane. Composites Communications, 2020, 21, 100382.	6.3	39
25	Crosslinking effect in nanocrystalline cellulose reinforced sulfonated poly(aryl ether ketone) proton exchange membranes. Solid State Ionics, 2018, 323, 5-15.	2.7	37
26	Homopolymer-like sulfonated phenyl- and diphenyl-poly(arylene ether ketone)s for fuel cell applications. Journal of Power Sources, 2008, 185, 899-903.	7.8	35
27	Preparation of sulfonated poly(ether ether ketone)s containing amino groups/epoxy resin composite membranes and their in situ crosslinking for application in fuel cells. Journal of Power Sources, 2010, 195, 11-20.	7.8	35
28	Nanocystalline cellulose reinforced sulfonated fluorenyl-containing polyaryletherketones for proton exchange membranes. Solid State Ionics, 2016, 297, 29-35.	2.7	34
29	Sulfonated nanocrystal cellulose/sulfophenylated poly(ether ether ketone ketone) composites for proton exchange membranes. RSC Advances, 2016, 6, 65072-65080.	3.6	28
30	Proton conducting nanocomposite membranes of nanocellulose reinforced poly(arylene ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	2.7	27
31	Fuel cell performance of pendent methylphenyl sulfonated poly(ether ether ketone ketone)s. Journal of Power Sources, 2017, 368, 30-37.	7.8	26
32	Novel PA-doped polybenzimidazole membranes with high doping level, high proton conductivity and high stability for HT-PEMFCs. RSC Advances, 2015, 5, 53870-53873.	3.6	24
33	Poly(arylene ether sulfone) crosslinked networks with pillar[5]arene units grafted by multiple long-chain quaternary ammonium salts for anion exchange membranes. Chemical Communications, 2020, 56, 928-931.	4.1	24
34	Graft fluorinated poly(arylene ether ketone)s containing highly dense sulfonic-acid-functionalized pendants for proton exchange membranes by Câ€"N coupling. Polymer, 2017, 131, 84-94.	3.8	23
35	Preparation and DMFC performance of a sulfophenylated poly(arylene ether ketone) polymer electrolyte membrane. Electrochimica Acta, 2010, 55, 3817-3823.	5.2	22
36	Novel postsulfonated poly(ether ether ketone)-block-poly(ether sulfone)s as proton exchange membranes for fuel cells: Design, preparation and properties. Journal of Membrane Science, 2011, 380, 171-180.	8.2	22

#	Article	IF	Citations
37	Synergism between lignin, functionalized carbon nanotubes and Fe3O4 nanoparticles for electromagnetic shielding effectiveness of tough lignin-based polyurethane. Composites Communications, 2021, 24, 100616.	6.3	22
38	Lignin Based Flexible Electromagnetic Shielding PU Synergized with Graphite. Fibers and Polymers, 2021, 22, 1-8.	2.1	19
39	Construction of highly conductive PBI-based alloy membranes by incorporating PIMs with optimized molecular weights for high-temperature proton exchange membrane fuel cells. Journal of Membrane Science, 2022, 659, 120790.	8.2	19
40	Synthesis and characterization of trifluoromethylated poly(aryl ether ketone)s. Polymers for Advanced Technologies, 2003, 14, 221-225.	3.2	18
41	SPAEK-based binary blends and ternary composites as proton exchange membranes for DMFCs. Journal of Membrane Science, 2012, 415-416, 520-526.	8.2	16
42	Novel iodo-containing poly(arylene ether ketone)s as intermediates for grafting perfluoroalkyl sulfonic acid groups. Reactive and Functional Polymers, 2017, 111, 7-13.	4.1	11
43	Synthesis of sulfonated fluorenyl-containing poly(ether ether ketone ketone)s and their blends with an amino-functionalized poly(ether ether ketone) for fuel cell applications. Macromolecular Research, 2013, 21, 719-725.	2.4	9
44	Sulfonated polyimides and their polysilsesquioxane hybrid membranes for fuel cells. Solid State Ionics, 2014, 258, 92-100.	2.7	9
45	Fabrication of Crossâ€Linked Anion Exchange Membranes Using a Pillar[5]arene Bearing Multiple Alkyl Bromide Head Groups as Crossâ€Linker. Macromolecular Materials and Engineering, 2020, 305, 2000158.	3.6	9
46	Highly conductive and stable anionâ€exchange membranes based on crosslinked poly(arylene ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.8	9
47	Triple-layer sulfonated poly(ether ether ketone)/sulfonated polyimide membranes for fuel cell applications. High Performance Polymers, 2014, 26, 106-113.	1.8	8
48	Poly(ether ketone azomethane)s and poly(ether ketone imide)s containing naphthylene moieties. Polymer Bulletin, 2011, 67, 1761-1771.	3.3	7
49	Structureâ€“property studies on fluorinated polyimide isomers containing biphenyl moieties. High Performance Polymers, 2012, 24, 488-494.	1.8	7
50	Fluorinated/non-fluorinated sulfonated polynaphthalimides as proton exchange membranes. Macromolecular Research, 2013, 21, 484-492.	2.4	7
51	Novel Nanocomposite PEM Membranes with Continuous Proton Transportation Channel and Reinforcing Network Formed by Electrospinning Solution Casting Method. Macromolecular Materials and Engineering, 2020, 305, 1900388.	3.6	6
52	Sulfophenylated Poly (Ether Ether Ketone Ketone) Nanofiber Composite Separator with Excellent Electrochemical Performance and Dimensional Thermal Stability for Lithiumâ€Ion Battery via Electrospinning. Macromolecular Materials and Engineering, 2021, 306, 2100118.	3.6	5
53	Novel high performance poly(aryl ether ketone)s based on symmetrical naphthylene isomers. Polymer Bulletin, 2008, 61, 699-704.	3.3	4
54	Proton Conductivity of Aromatic Polymers. , 2012, , 331-369.		4

#	Article	IF	Citations
55	Thermally Conductive Study of Polyethylene/Al2O3 Composite Networks Cross-linked Pipes by Electron Beam Irradiation. Chemical Research in Chinese Universities, 2020, 36, 940-945.	2.6	4
56	Synthesis and properties of the novel polyimides containing cyano and biphenyl moieties. High Performance Polymers, 2018, 30, 1183-1192.	1.8	3
57	Singleâ€Ion Gel Polymer Electrolyte Based on Poly(ether sulfone) for Highâ€Performance Lithiumâ€Ion Batteries. Macromolecular Materials and Engineering, 2022, 307, .	3.6	3
58	Synthesis and thermotropic liquid-crystalline behavior of novel main-chain poly(aryl ether ketones). Journal of Applied Polymer Science, 2003, 89, 1347-1350.	2.6	2
59	Preparation and Properties of Hybrid Silane-crosslinked Sulfonated Poly(aryl ether ketone)s as Proton Exchange Membranes. Chemical Research in Chinese Universities, 2019, 35, 937-944.	2.6	2
60	The Enhanced Performance of Polyethylene Composite Separators by the Modification of Lithium Salt@SiO₂ Nanoparticles. Macromolecular Materials and Engineering, 2021, 306, 2100257.	3.6	2
61	Synthesis of a Cyclophosphazene Derivative Containing Multiple Cyano Groups for Electron-Beam Irradiated Flame-Retardant Materials. Polymers, 2021, 13, 3460.	4.5	2
62	Property improvement of nanocelluloseâ€reinforced proton exchange nanocomposite membrane coated with tetraethyl orthosilicate. Journal of Polymer Science Part A, 2019, 57, 2190-2200.	2.3	1
63	Proton Conductivity Improvement Effect of Cellulose on SPEEKK Based PEM. Chemical Research in Chinese Universities, 2019, 35, 916-923.	2.6	1
64	Carboxyl-functionalized Nanocellulose Reinforced Nanocomposite Proton Exchange Membrane. Chemical Research in Chinese Universities, 2019, 35, 735-741.	2.6	1
65	Lignin doped epoxy acrylate sandwich electromagnetic shielding material synergized with Fe₃O₄ and CNT. Journal of Dispersion Science and Technology, 2022, 43, 2209-2217.	2.4	1
66	Moisture absorption and mechanical properties of chemically modified linen/polypropylene composites. Chemical Research in Chinese Universities, 2017, 33, 1000-1006.	2.6	0
67	Electronâ€beam irradiated ceramizableâ€siliconeâ€rubberâ€composites containing allylâ€functionalized cyclophosphazene. Journal of Applied Polymer Science, 0, , .	2.6	0