Wei Hu

List of Publications by Year
in descending order

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59 papers	2,166 citations	201674 27 h-index	223800 46 g-index
59 all docs	59 docs citations	59 times ranked	1660 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	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
3	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
4	Soluble aromatic poly(ether ketone)s with a pendant 3,5-ditrifluoromethylphenyl group. Polymer, 2004, 45, 3241-3247.	3.8	105
5	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
6	Poly(aryl ether ketone)s with carboxylic acid groups: synthesis, sulfonation and crosslinking. Journal of Materials Chemistry, 2008, 18, 4675.	6.7	73
7	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
8	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
9	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
10	Mechanical, adhesive and self-healing ionic liquid hydrogels for electrolytes and flexible strain sensors. Journal of Materials Chemistry C, 2020, 8, 11119-11127.	5.5	57
11	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
12	Synthesis of a lignin-based phosphorus-containing flame retardant and its application in polyurethane. RSC Advances, 2018, 8, 32252-32261.	3.6	50
13	Electrolyte Membranes with Biomimetic Lithium-Ion Channels. Nano Letters, 2020, 20, 5435-5442.	9.1	49
14	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
15	Synthesis and characterization of organosoluble ditrifluoromethylated aromatic polyimides. Journal of Polymer Science Part A, 2005, 43, 3018-3029.	2.3	46
16	Effect of aminated nanocrystal cellulose on proton conductivity and dimensional stability of proton exchange membranes. Applied Surface Science, 2019, 466, 691-702.	6.1	46
17	Bio-inspired adhesive and self-healing hydrogels as flexible strain sensors for monitoring human activities. Materials Science and Engineering C, 2020, 106, 110168.	7.3	45
18	Performance of UV curable lignin based epoxy acrylate coatings. Progress in Organic Coatings, 2018, 116, 83-89.	3.9	44

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19	Improved Mechanical Properties and Flame Retardancy of Wood/PLA Allâ€Degradable Biocomposites with Novel Ligninâ€Based Flame Retardant and TGIC. Macromolecular Materials and Engineering, 2020, 305, 1900840.	3.6	43
20	Fabrication of PBI/SPOSS hybrid high-temperature proton exchange membranes using SPAEK as compatibilizer. Journal of Membrane Science, 2021, 620, 118855.	8.2	42
21	A novel phosphorus-containing lignin-based flame retardant and its application in polyurethane. Composites Communications, 2020, 21, 100382.	6.3	39
22	Crosslinking effect in nanocrystalline cellulose reinforced sulfonated poly(aryl ether ketone) proton exchange membranes. Solid State Ionics, 2018, 323, 5-15.	2.7	37
23	Ozone oxidized lignin-based polyurethane with improved properties. European Polymer Journal, 2019, 117, 114-122.	5.4	37
24	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
25	Nanocystalline cellulose reinforced sulfonated fluorenyl-containing polyaryletherketones for proton exchange membranes. Solid State Ionics, 2016, 297, 29-35.	2.7	34
26	Porous Cationic Electrospun Fibers with Sufficient Adsorption Sites for Effective and Continuous ⁹⁹TcO₄^â Uptake. Advanced Functional Materials, 2022, 32, .	14.9	34
27	A comparative structureâ€“property study of methylphenylated and fluoromethylphenylated poly(aryl) Tj ETQq1 1 0.784314 rgBT /Ov	3.8	28
28	Sulfonated nanocrystal cellulose/sulfophenylated poly(ether ether ketone ketone) composites for proton exchange membranes. RSC Advances, 2016, 6, 65072-65080.	3.6	28
29	Proton conducting nanocomposite membranes of nanocellulose reinforced poly(arylene ether) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.7	27
30	Fuel cell performance of pendent methylphenyl sulfonated poly(ether ether ketone ketone)s. Journal of Power Sources, 2017, 368, 30-37.	7.8	26
31	Improved performance of dual-cured organosolv lignin-based epoxy acrylate coatings. Composites Communications, 2018, 10, 52-56.	6.3	24
32	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
33	Preparation and DMFC performance of a sulfophenylated poly(arylene ether ketone) polymer electrolyte membrane. Electrochimica Acta, 2010, 55, 3817-3823.	5.2	22
34	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
35	Poly(arylene ether) electrolyte membranes bearing aliphatic-chain-linked sulfophenyl pendant groups. Journal of Membrane Science, 2013, 428, 629-638.	8.2	20
36	In situ inorganic flame retardant modified hemp and its polypropylene composites. RSC Advances, 2017, 7, 32236-32245.	3.6	19

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37	Lignin Based Flexible Electromagnetic Shielding PU Synergized with Graphite. Fibers and Polymers, 2021, 22, 1-8.	2.1	19
38	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
39	A comparison of flax shive and extracted flax shive reinforced PP composites. Fibers and Polymers, 2014, 15, 1722-1728.	2.1	11
40	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
41	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
42	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
43	High performance of polyethylene composite separators modified by carbon nanotube, lithium salt and SiO2 nanoparticles for lithium ion batteries. Composites Communications, 2021, 28, 100976.	6.3	9
44	Methylated and Trifluoromethylated Poly(aryl ethers). Polymer Journal, 2003, 35, 628-633.	2.7	6
45	Characterization of polypropylene composites reinforced with flax fibers treated by mechanical and alkali methods. Science and Engineering of Composite Materials, 2011, 18, 79-85.	1.4	6
46	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
47	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
48	Physical aging behavior of 6F-PEEK andm-TPEEK studied by modulated differential scanning calorimetry. Journal of Applied Polymer Science, 2005, 96, 312-317.	2.6	3
49	Synthesis and characterization of poly(ï‰-pentadecalactone) for its industrial-scale production. Chemical Research in Chinese Universities, 2015, 31, 640-644.	2.6	3
50	Chemical modifications on linen for unsaturated polyester composites. Chemical Research in Chinese Universities, 2016, 32, 1057-1062.	2.6	3
51	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
52	Sulphonated Biphenylated Poly(aryl ether ketone)s for Fuel Cell Applications. Fuel Cells, 2010, 10, 45-53.	2.4	2
53	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
54	Study on refined triticale straw reinforced PP composites. Chemical Research in Chinese Universities, 2015, 31, 873-877.	2.6	1

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55	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
56	Proton Conductivity Improvement Effect of Cellulose on SPEEKK Based PEM. Chemical Research in Chinese Universities, 2019, 35, 916-923.	2.6	1
57	Carboxyl-functionalized Nanocellulose Reinforced Nanocomposite Proton Exchange Membrane. Chemical Research in Chinese Universities, 2019, 35, 735-741.	2.6	1
58	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
59	Moisture absorption and mechanical properties of chemically modified linen/polypropylene composites. Chemical Research in Chinese Universities, 2017, 33, 1000-1006.	2.6	0