

Ki Hyun Kim

List of Publications by Year in descending order

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32
papers

1,254
citations

394286

19
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454834

30
g-index

32
all docs

32
docs citations

32
times ranked

1273
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-linked graphene oxide membrane having high ion selectivity and antibacterial activity prepared using tannic acid-functionalized graphene oxide and polyethyleneimine. <i>Journal of Membrane Science</i> , 2017, 521, 1-9.	4.1	195
2	Sulfonated poly(arylene ether sulfone) composite membranes having poly(2,5-benzimidazole)-grafted graphene oxide for fuel cell applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20595-20606.	5.2	100
3	Enhanced physical stability and chemical durability of sulfonated poly(arylene ether sulfone) composite membranes having antioxidant grafted graphene oxide for polymer electrolyte membrane fuel cell applications. <i>Journal of Membrane Science</i> , 2017, 525, 125-134.	4.1	98
4	Cross-Linked Sulfonated Poly(arylene ether sulfone) Membranes Formed by <i>in Situ</i> Casting and Click Reaction for Applications in Fuel Cells. <i>Macromolecules</i> , 2015, 48, 1104-1114.	2.2	92
5	Cross-linked highly sulfonated poly(arylene ether sulfone) membranes prepared by in-situ casting and thiol-ene click reaction for fuel cell application. <i>Journal of Membrane Science</i> , 2019, 579, 70-78.	4.1	60
6	High-performance proton-exchange membrane water electrolysis using a sulfonated poly(arylene ether sulfone) membrane. <i>Journal of Membrane Science</i> , 2019, 579, 70-78.	4.1	59
7	Highly sulfonated polymer-grafted graphene oxide composite membranes for proton exchange membrane fuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 74, 223-232.	2.9	58
8	Highly reinforced pore-filling membranes based on sulfonated poly(arylene ether sulfone)s for high-temperature/low-humidity polymer electrolyte membrane fuel cells. <i>Journal of Membrane Science</i> , 2017, 537, 11-21.	4.1	47
9	Highly durable polymer electrolyte membranes at elevated temperature: Cross-linked copolymer structure consisting of poly(benzoxazine) and poly(benzimidazole). <i>Journal of Power Sources</i> , 2013, 226, 346-353.	4.0	43
10	Cross-Linked Sulfonated Poly(arylene ether sulfone) Containing a Flexible and Hydrophobic Bishydroxy Perfluoropolyether Cross-Linker for High-Performance Proton Exchange Membrane. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21788-21793.	4.0	43
11	Comb-shaped polysulfones containing sulfonated polytriazole side chains for proton exchange membranes. <i>Journal of Membrane Science</i> , 2018, 554, 232-243.	4.1	41
12	Cross-linked sulfonated poly(ether ether ketone) membranes formed by poly(2,5-benzimidazole)-grafted graphene oxide as a novel cross-linker for direct methanol fuel cell applications. <i>Journal of Power Sources</i> , 2020, 448, 227427.	4.0	41
13	End-group cross-linked sulfonated poly(arylene ether sulfone) via thiol-ene click reaction for high-performance proton exchange membrane. <i>Journal of Power Sources</i> , 2018, 401, 20-28.	4.0	39
14	Sulfonated poly(arylene ether sulfone) composite membrane having sulfonated polytriazole grafted graphene oxide for high-performance proton exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2020, 612, 118428.	4.1	39
15	Organic/inorganic composite membranes comprising of sulfonated Poly(arylene ether sulfone) and core-shell silica particles having acidic and basic polymer shells. <i>Polymer</i> , 2015, 71, 70-81.	1.8	38
16	Proton conductive cross-linked benzoxazine-benzimidazole copolymers as novel porous substrates for reinforced pore-filling membranes in fuel cells operating at high temperatures. <i>Journal of Membrane Science</i> , 2017, 536, 76-85.	4.1	37
17	Poly(arylene ether sulfone) based semi-interpenetrating polymer network membranes containing cross-linked poly(vinyl phosphonic acid) chains for fuel cell applications at high temperature and low humidity conditions. <i>Journal of Power Sources</i> , 2015, 293, 539-547.	4.0	35
18	Polybenzimidazole composite membranes containing imidazole functionalized graphene oxide showing high proton conductivity and improved physicochemical properties. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 12254-12262.	3.8	33

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19	Cross-Linked Graphene Oxide Membrane Functionalized with Self-Cross-Linkable and Bactericidal Cardanol for Oil/Water Separation. ACS Applied Nano Materials, 2018, 1, 2600-2608.	2.4	32
20	Suppressing vanadium crossover using sulfonated aromatic ion exchange membranes for high performance flow batteries. Materials Advances, 2020, 1, 2206-2218.	2.6	22
21	Poly[2,2'-(m-phenylene)-5,5'-bibenzimidazole] and poly[6-fluoro-3-(pyridin-2-yl)-3,4-dihydro-2H-benzoxazine] based polymer electrolyte membranes for fuel cells at elevated temperature. Macromolecular Research, 2012, 20, 1181-1190.	1.0	18
22	Study on Control of Polymeric Architecture of Sulfonated Hydrocarbon-Based Polymers for High-Performance Polymer Electrolyte Membranes in Fuel Cell Applications. Polymers, 2021, 13, 3520.	2.0	17
23	Simple and Effective Cross-Linking Technology for the Preparation of Cross-Linked Membranes Composed of Highly Sulfonated Poly(ether ether ketone) and Poly(arylene ether sulfone) for Fuel Cell Applications. ACS Applied Energy Materials, 2020, 3, 10495-10505.	2.5	16
24	Sulfonated Poly(Arylene Ether Sulfone) and Perfluorosulfonic Acid Composite Membranes Containing Perfluoropolyether Grafted Graphene Oxide for Polymer Electrolyte Membrane Fuel Cell Applications. Polymers, 2018, 10, 569.	2.0	15
25	Thermally cross-linked sulfonated poly(ether ether ketone) membranes containing a basic polymer-grafted graphene oxide for vanadium redox flow battery application. Journal of Energy Storage, 2022, 45, 103784.	3.9	11
26	End-group cross-linked membranes based on highly sulfonated poly(arylene ether sulfone) with vinyl functionalized graphene oxide as a cross-linker and a filler for proton exchange membrane fuel cell application. Journal of Polymer Science, 2020, 58, 3456-3466.	2.0	8
27	Enhanced cycle stability of rechargeable Li-O ₂ batteries using immobilized redox mediator on air cathode. Journal of Industrial and Engineering Chemistry, 2020, 83, 14-19.	2.9	6
28	Liquid crystal alignment behavior on sulfonated poly(arylene ether sulfone) films. RSC Advances, 2015, 5, 64031-64036.	1.7	5
29	Organic Dye-Derived N, S Co-Doped Porous Carbon Hosts for Effective Lithium Polysulfide Confinement in Lithium-Sulfur Batteries. Nanomaterials, 2021, 11, 2954.	1.9	4
30	Self-Humidifying Membrane for High-Performance Fuel Cells Operating at Harsh Conditions: Heterojunction of Proton and Anion Exchange Membranes Composed of Acceptor-Doped SnP2O7 Composites. Membranes, 2021, 11, 776.	1.4	2
31	Electrochemical Characterization of Ion Exchange Composite Membrane with Various Ion Exchange Group Moieties. ECS Meeting Abstracts, 2019, , .	0.0	0
32	Anion Exchange Membrane Fuel Cell Application of Synthesized Poly(ether ether ketone) Containing Imidazolium. ECS Meeting Abstracts, 2019, , .	0.0	0