

# Tae-Ho Kim

## List of Publications by Year in descending order

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59  
papers

2,039  
citations

201674

27  
h-index

254184

43  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1740  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perfluorocyclobutyl-containing multiblock copolymers to induce enhanced hydrophilic/hydrophobic phase separation and high proton conductivity at low humidity. <i>Journal of Membrane Science</i> , 2022, 641, 119892.	8.2	13
2	Controlling hydrophilic channel alignment of perfluorinated sulfonic acid membranes via biaxial drawing for high performance and durable polymer electrolyte membrane water electrolysis. <i>Journal of Power Sources</i> , 2022, 518, 230772.	7.8	11
3	Highly selective porous separator with thin skin layer for alkaline water electrolysis. <i>Journal of Power Sources</i> , 2022, 524, 231059.	7.8	27
4	Oligomeric chain extender-derived anion conducting membrane materials with poly( <i>p</i> -phenylene)-based architecture for fuel cells and water electrolyzers. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9693-9706.	10.3	22
5	Poly(ethylene-co-vinyl acetate)/polyimide/poly(ethylene-co-vinyl acetate) tri-layer porous separator with high conductivity and tailored thermal shutdown function for application in sodium-ion batteries. <i>Journal of Power Sources</i> , 2021, 482, 228907.	7.8	19
6	Alcohol-Treated Porous PTFE Substrate for the Penetration of PTFE-Incompatible Hydrocarbon-Based Ionomer Solutions. <i>Langmuir</i> , 2021, 37, 3694-3701.	3.5	18
7	Alkyl Spacer Grafted ABPBI Membranes with Enhanced Acid-Absorption Capabilities for Use in Vanadium Redox Flow Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 4672-4685.	5.1	13
8	Cross-Linked Composite Gel Polymer Electrolyte Based on an H-Shaped Poly(ethylene Terephthalate) for Solid-State Supercapacitor Applications. <i>ACS Omega</i> , 2021, 6, 16924-16933.	3.5	10
9	Ion exchange capacity controlled biphenol-based sulfonated poly(arylene ether sulfone) for polymer electrolyte membrane water electrolyzers: Comparison of random and multi-block copolymers. <i>Journal of Membrane Science</i> , 2021, 634, 119370.	8.2	37
10	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. <i>ACS Applied Energy Materials</i> , 2020, 3, 10495-10505.	5.1	16
11	Poly(carbazole)-based anion-conducting materials with high performance and durability for energy conversion devices. <i>Energy and Environmental Science</i> , 2020, 13, 3633-3645.	30.8	162
12	Simple and effective modification of absorbed glass mat separator through atmospheric plasma treatment for practical use in AGM lead-acid battery applications. <i>Journal of Energy Storage</i> , 2020, 28, 101187.	8.1	9
13	A Printable Metallic Current Collector for All-Printed High-Voltage Micro-Supercapacitors: Instantaneous Surface Passivation by Flash-Light Sintering Reaction. <i>Advanced Functional Materials</i> , 2020, 30, 2000715.	14.9	22
14	Reprogrammable Three-Dimensional Configurations Using Ionomer Bilayers. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2760-2767.	4.4	5
15	Reinforced anion exchange membrane based on thermal cross-linking method with outstanding cell performance for reverse electrodialysis. <i>RSC Advances</i> , 2019, 9, 27500-27509.	3.6	23
16	External reinforcement of hydrocarbon membranes by a three-dimensional interlocking interface for mechanically durable polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2019, 415, 44-49.	7.8	13
17	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.	8.2	60
18	Nanofiber Cellulose-Incorporated Nanomesh Graphene-Carbon Nanotube Buckypaper and Ionic Liquid-Based Solid Polymer Electrolyte for Flexible Supercapacitors. <i>Energy Technology</i> , 2019, 7, 1900014.	3.8	7

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19	Ether-free polymeric anion exchange materials with extremely low vanadium ion permeability and outstanding cell performance for vanadium redox flow battery (VRFB) application. <i>Journal of Power Sources</i> , 2019, 413, 158-166.	7.8	34
20	Multimodal porous and nitrogen-functionalized electrode based on graphite felt modified with carbonized porous polymer skin layer for all-vanadium redox flow battery. <i>Materials Today Energy</i> , 2019, 11, 159-165.	4.7	25
21	Water channel morphology of non-perfluorinated hydrocarbon proton exchange membrane under a low humidifying condition. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2340-2348.	7.1	21
22	Intrinsically microporous polymer-based hierarchical nanostructuring of electrodes via nonsolvent-induced phase separation for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8909-8915.	10.3	23
23	Electrocatalytic activity of nitrogen-doped CNT/graphite felt hybrid for all-vanadium redox flow batteries. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 1516-1522.	7.1	41
24	Comb-shaped polysulfones containing sulfonated polytriazole side chains for proton exchange membranes. <i>Journal of Membrane Science</i> , 2018, 554, 232-243.	8.2	41
25	Hydrocarbon membranes with high selectivity and enhanced stability for vanadium redox flow battery applications: Comparative study with sulfonated poly(ether sulfone)s and sulfonated poly(thioether) Tj ETQq1 1 0.784314 rgBT /Over	8.0	23
26	Hydrophilic Channel Alignment of Perfluorinated Sulfonic-Acid Ionomers for Vanadium Redox Flow Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19689-19696.	8.0	25
27	Novel interfacial bonding layers with controlled gradient composition profile for hydrocarbon-based membrane electrode assemblies. <i>Journal of Power Sources</i> , 2018, 398, 1-8.	7.8	9
28	Polybenzimidazole/Nafion hybrid membrane with improved chemical stability for vanadium redox flow battery application. <i>RSC Advances</i> , 2018, 8, 25304-25312.	3.6	43
29	Preparation and characterization of crosslinked anion exchange membrane (AEM) materials with poly(phenylene ether)-based short hydrophilic block for use in electrochemical applications. <i>Journal of Membrane Science</i> , 2017, 530, 73-83.	8.2	69
30	Poly(p-phenylene)-based membrane materials with excellent cell efficiencies and durability for use in vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12285-12296.	10.3	41
31	Electrode-Impregnable and Cross-Linkable Poly(ethylene oxide)-Poly(propylene oxide)-Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /O Flexible Solid-State Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 33913-33924.	8.0	23
32	Crosslinked anion exchange membranes with primary diamine-based crosslinkers for vanadium redox flow battery application. <i>Journal of Power Sources</i> , 2017, 363, 78-86.	7.8	76
33	Three-Dimensional Interlocking Interface: Mechanical Nanofastener for High Interfacial Robustness of Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Materials</i> , 2017, 29, 1603056.	21.0	36
34	Synthesis of mesoporous reduced graphene oxide by Zn particles for electrodes of supercapacitor in ionic liquid electrolyte. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 45, 105-110.	5.8	32
35	Synthesis and properties of bonding layer containing flexible and fluorinated moieties for hydrocarbon-based membrane electrode assemblies. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 10884-10895.	7.1	10
36	Highly proton conductive, dense polybenzimidazole membranes with low permeability to vanadium and enhanced H <sub>2</sub> SO <sub>4</sub> absorption capability for use in vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14342-14355.	10.3	108

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37	Synthesis and investigation of random-structured ionomers with highly sulfonated multi-phenyl pendants for electrochemical applications. <i>Journal of Membrane Science</i> , 2016, 510, 326-337.	8.2	29
38	Multiblock copolymers based on poly(p-phenylene)-co-poly(arylene ether sulfone ketone) with sulfonated multiphenyl pendant groups for polymer electrolyte fuel cell (PEMFC) application. <i>European Polymer Journal</i> , 2015, 66, 1-11.	5.4	27
39	Edge protection using polyacrylonitrile thin-films for hydrocarbon-based membrane electrode assemblies. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 28, 190-196.	5.8	7
40	Multi-block copolymers based on poly(p-phenylene)s with excellent durability and fuel cell performance. <i>Journal of Membrane Science</i> , 2015, 492, 209-219.	8.2	50
41	Thin bonding layer using sulfonated poly(arylene ether sulfone)/PVdF blends for hydrocarbon-based membrane electrode assemblies. <i>Electrochimica Acta</i> , 2015, 173, 268-275.	5.2	17
42	Interlocking Membrane/Catalyst Layer Interface for High Mechanical Robustness of Hydrocarbon-Membrane-Based Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Materials</i> , 2015, 27, 2974-2980.	21.0	39
43	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.	10.3	100
44	Effect of sulfonated poly(arylene ether sulfone) binder on the performance of polymer electrolyte membrane fuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 23, 316-320.	5.8	16
45	Poly(amide-co-imide)-poly(trimellitic anhydride chloride-co-4,4'-methylenedianiline) nonwoven/sulfonated poly(arylene ether sulfone) composite membrane for proton exchange membrane fuel cells. <i>Macromolecular Research</i> , 2014, 22, 79-84.	2.4	7
46	Sulfonated poly(arylene sulfone) multiblock copolymers for proton exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2014, 459, 72-85.	8.2	71
47	Preparation and properties of sulfonated poly(arylene ether sulfone)/hydrophilic oligomer-g-CNT composite membranes for PEMFC. <i>Macromolecular Research</i> , 2013, 21, 1138-1144.	2.4	9
48	Sulfonated poly(arylene ether sulfone)/sulfonated zeolite composite membrane for high temperature proton exchange membrane fuel cells. <i>Solid State Ionics</i> , 2013, 233, 55-61.	2.7	54
49	Properties of sulfonated poly(arylene ether sulfone)/electrospun nonwoven polyacrylonitrile composite membrane for proton exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2013, 446, 212-219.	8.2	48
50	Modification of hydrocarbon structure for polymer electrolyte membrane fuel cell binder application. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13452-13461.	7.1	9
51	Sulfonated poly(arylene ether sulfone)/disulfonated silsesquioxane hybrid proton conductors for proton exchange membrane fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 18981-18988.	7.1	11
52	Fabrication and Properties of Reinforced Membranes Based on Sulfonated Poly(arylene ether sulfone) Copolymers for Proton-Exchange Membrane Fuel Cells. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 839-846.	2.2	19
53	Crosslinked sulfonated poly(arylene ether sulfone) membranes for fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2603-2613.	7.1	50
54	Low temperature decal transfer method for hydrocarbon membrane based membrane electrode assemblies in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 9800-9809.	7.8	33

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55	4-Alkylphenoxyethyl-Substituted Polystyrenes for Liquid Crystal Alignment Layers. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 926-935.	2.2	26
56	Polybenzimidazole containing benzimidazole side groups for high-temperature fuel cell applications. <i>Polymer</i> , 2009, 50, 3495-3502.	3.8	81
57	Copolymers of Poly(2,5-benzimidazole) and Poly[2,2'-( <i>p</i> -phenylene)-5,5'-bibenzimidazole] for High-Temperature Fuel Cell Applications. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 914-921.	3.6	22
58	Proton-Conducting Zirconium Pyrophosphate/Poly(2,5-benzimidazole) Composite Membranes Prepared by a PPA Direct Casting Method. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 2293-2302.	2.2	36
59	High-temperature fuel cell membranes based on mechanically stable para-ordered polybenzimidazole prepared by direct casting. <i>Journal of Power Sources</i> , 2007, 172, 172-179.	7.8	86