

Jedeok Kim

List of Publications by Year in descending order

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4,612
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393982

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#	ARTICLE	IF	CITATIONS
1	Effect of Polyhedral Silsesquioxane Functionalized Sulfonic Acid Groups Incorporated Into Highly Sulfonated Polyphenylsulfone as Proton-Conducting Membrane. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 6399-6407.	1.7	2
2	Water Electrolysis Using a Porous IrO ₂ /Ti/IrO ₂ Catalyst Electrode and Nafion Membranes at Elevated Temperatures. <i>Membranes</i> , 2021, 11, 330.	1.4	8
3	A novel imogolite-reinforced sulfonated polyphenylsulfone as proton exchange membrane in fuel cell applications. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105641.	3.3	7
4	Crosslinked Sulfonated Polyphenylsulfone (CSPPSU) Membranes for Elevated-Temperature PEM Water Electrolysis. <i>Membranes</i> , 2021, 11, 861.	1.4	8
5	Ultrathin Electrolyte Membranes with PFSA-Vinylon Intermediate Layers for PEM Fuel Cells. <i>Polymers</i> , 2020, 12, 1730.	2.0	7
6	Improved properties of sulfonated octaphenyl polyhedral silsesquioxane cross-link with highly sulfonated polyphenylsulfone as proton exchange membrane. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1185-1195.	1.2	6
7	Crosslinked Sulfonated Polyphenylsulfone-Vinylon (CSPPSU-vinylon) Membranes for PEM Fuel Cells from SPPSU and Polyvinyl Alcohol (PVA). <i>Polymers</i> , 2020, 12, 1354.	2.0	9
8	Crosslinked carbon nanodots with highly sulfonated polyphenylsulfone as proton exchange membrane for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 9979-9988.	3.8	29
9	Chemically Crosslinked Sulfonated Polyphenylsulfone (CSPPSU) Membranes for PEM Fuel Cells. <i>Membranes</i> , 2020, 10, 31.	1.4	16
10	Redox-Flow Battery Operating in Neutral and Acidic Environments with Multielectron-Transfer-Type Viologen Molecular Assembly. <i>ACS Applied Energy Materials</i> , 2020, 3, 4377-4383.	2.5	21
11	Organic solvent-free preparation of electrolyte membranes with high proton conductivity using aromatic hydrocarbon polymers and small cross-linker molecules. <i>Solid State Ionics</i> , 2018, 316, 102-109.	1.3	19
12	Conjugated polymer-based carbonaceous films as binder-free carbon electrodes in supercapacitors. <i>RSC Advances</i> , 2018, 8, 19512-19523.	1.7	4
13	Annealing Effect of Nafion-Propyl-1,2,3-Triazole Membrane by Autoclave Solution Processing. <i>ECS Transactions</i> , 2018, 85, 943-959.	0.3	1
14	Imidazolium-based poly(ionic liquid)s with poly(ethylene oxide) main chains: Effects of spacer and tail structures on ionic conductivity. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2896-2906.	2.5	19
15	Effect of thermal crosslinking on the properties of sulfonated poly(phenylene sulfone)s as proton conductive membranes. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	18
16	Quaternary Ammonium Cation Functionalized Poly(Ionic Liquid)s with Poly(Ethylene Oxide) Main Chains. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 2551-2557.	1.1	6
17	Enhanced cycle stability of hybrid Li-air batteries with carbon nanofiber grown on carbon black. <i>RSC Advances</i> , 2016, 6, 74195-74200.	1.7	6
18	New siloxane-based copolymers for use in anion exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2016, 508, 1-6.	4.1	7

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19	Annealing effect of highly sulfonated polyphenylsulfone polymer. International Journal of Hydrogen Energy, 2016, 41, 11794-11800.	3.8	19
20	Nafion-Propyl-1,2,3-Triazole Composite Membrane for Fuel Cells. Journal of the Electrochemical Society, 2014, 161, F724-F728.	1.3	5
21	Crosslinked SPES-SPPSU membranes for high temperature PEMFCs. International Journal of Hydrogen Energy, 2013, 38, 1517-1523.	3.8	59
22	Nafion-1,2,3-Triazole Blend Membranes for High Temperature PEMFCs. Fuel Cells, 2013, 13, 65-71.	1.5	5
23	Solvent casting effects of sulfonated poly(ether ether ketone) for Polymer electrolyte membrane fuel cell. Journal of Membrane Science, 2012, 396, 32-37.	4.1	61
24	Kinetically Controlled Fabrication of Cu_2S ; 1-Dimensional Crystals. Journal of Nanoscience and Nanotechnology, 2011, 11, 3374-3380.	0.9	10
25	Proton Diffusion in Anhydrous Nafion-Blend Membrane for High Temperature PEFCs. ECS Transactions, 2011, 35, 107-113.	0.3	0
26	High ionic conductivity of Mg-Al layered double hydroxides at intermediate temperature (100-200°C) under saturated humidity condition (100% RH). Solid State Ionics, 2010, 181, 883-888.	1.3	49
27	Physico-chemical properties of temperature tolerant anhydrous nafion-benzimidazole blend membrane. Solid State Ionics, 2010, 181, 1098-1102.	1.3	12
28	Fast Li-Ion Insertion into Nanosized LiMn_2O_4 without Domain Boundaries. ACS Nano, 2010, 4, 741-752.	7.3	194
29	Physico-Chemical Properties of Highly Flexible Temperature Tolerant Anhydrous Nafion-1,2,3-Triazole Blend Membranes. Journal of the Electrochemical Society, 2010, 157, B1872.	1.3	15
30	Small-Angle X-Ray Scattering and Proton Conductivity of Anhydrous Nafion-Benzimidazole Blend Membranes. Journal of the Electrochemical Society, 2009, 156, B729.	1.3	11
31	Small-Angle X-ray Scattering and Proton Conductivity of Anhydrous Nafion-Blend Membranes for High Temperature PEFCs. ECS Transactions, 2009, 25, 405-414.	0.3	1
32	Anisotropic Surface Effect on Electronic Structures and Electrochemical Properties of LiCo_2 . Journal of Physical Chemistry C, 2009, 113, 15337-15342.	1.5	45
33	Design of nanostructured ceria-based solid electrolytes for development of IT-SOFC. Journal of Solid State Electrochemistry, 2008, 12, 841-849.	1.2	65
34	Ionogel electrolytes at medium temperatures by composite of ionic liquids with proton conducting cesium hydrogen sulfate. Solid State Ionics, 2008, 179, 1178-1181.	1.3	8
35	New organic-inorganic crystalline electrolytes synthesized from 12-phosphotungstic acid and the ionic liquid [BMIM][TFSI]. Electrochimica Acta, 2008, 53, 7638-7643.	2.6	15
36	Large Reversible Li Storage of Graphene Nanosheet Families for Use in Rechargeable Lithium Ion Batteries. Nano Letters, 2008, 8, 2277-2282.	4.5	2,694

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37	Vertically Well-Aligned C_{60} Microtube Crystal Array Prepared Using a Solution-Based, One-Step Process. <i>Chemistry of Materials</i> , 2008, 20, 1667-1669.	3.2	41
38	SrTiO ₃ Thin Films with Visible-Light Band Gap Fabricated by Nitrogen Reactive Sputtering. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L468-L470.	0.8	6
39	Intermediate Temperature Proton Electrolytes for Polymer Fuel Cells. , 2007, , .		0
40	Anhydrous Proton-Conducting Properties of Nafion®1,2,4-Triazole and Nafion®Benzimidazole Membranes for Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2007, 154, A290.	1.3	65
41	Nanosize Effect on High-Rate Li-Ion Intercalation in LiCoO ₂ Electrode. <i>Journal of the American Chemical Society</i> , 2007, 129, 7444-7452.	6.6	690
42	Fast proton conductor under anhydrous condition synthesized from 12-phosphotungstic acid and ionic liquid. <i>Electrochimica Acta</i> , 2007, 53, 963-967.	2.6	39
43	Anhydrous proton conductivity of a lamella-structured inorganic-organic zirconium monododecyl phosphate crystalline hybrid. <i>Journal of Power Sources</i> , 2007, 172, 694-697.	4.0	8
44	Organic-Inorganic Hybrid Membranes for a PEMFC Operation at Intermediate Temperatures. <i>Journal of the Electrochemical Society</i> , 2006, 153, A508.	1.3	45
45	Highly proton conducting hybrid materials synthesized from 12-phosphotungstic and hexadecyltrimethylammonium salt. <i>Solid State Ionics</i> , 2005, 176, 547-552.	1.3	40
46	High-Temperature-Tolerant, Proton-Conducting Polytetramethylene Oxide/Zirconia Hybrid Membranes. <i>Journal of the Electrochemical Society</i> , 2004, 151, A1396.	1.3	19
47	Synthesis and proton conducting properties of zirconia bridged hydrocarbon/phosphotungstic acid hybrid materials. <i>Electrochimica Acta</i> , 2004, 49, 3179-3183.	2.6	62
48	Proton conducting polydimethylsiloxane/metal oxide hybrid membranes added with phosphotungstic acid(II). <i>Electrochimica Acta</i> , 2004, 49, 3429-3433.	2.6	25
49	Investigation of oxygen source from vapor phase and target for growth of Pb(Zr,Ti)O ₃ thin film. <i>Electronics and Communications in Japan</i> , 2003, 86, 28-34.	0.2	0
50	Proton conducting polydimethylsiloxane/zirconium oxide hybrid membranes added with phosphotungstic acid. <i>Electrochimica Acta</i> , 2003, 48, 3633-3638.	2.6	51
51	Characteristics and high water-repelleny of a-C:H films deposited by r.f. PECVD. <i>Surface and Coatings Technology</i> , 2003, 162, 135-139.	2.2	18
52	Water-repelleny of a-C:H films deposited by rf plasma-enhanced CVD. <i>Vacuum</i> , 2002, 66, 379-383.	1.6	16
53	Preparation of perovskite, Pb(Zr, Ti)O ₃ thin-films on YSZ(111)/Si(111) substrates by post-deposition annealing. <i>Thin Solid Films</i> , 2001, 385, 293-297.	0.8	13
54	Preparation and properties of Pb(Zr, Ti)O ₃ thin films deposited on Ir electrodes using a sputtering apparatus. <i>Vacuum</i> , 2000, 59, 559-566.	1.6	3

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55	Target for a Pb(Zr,Ti)O ₃ Thin Film Deposited at a Low Temperature Using a Quasi-Metallic Mode of Reactive Sputtering. Japanese Journal of Applied Physics, 1999, 38, 6882-6886.	0.8	7
56	Properties of Ferroelectric BaMgF ₄ on Si(100), (110) and (111) Substrates Obtained by Post-Deposition Rapid Thermal Annealing. Japanese Journal of Applied Physics, 1996, 35, 1557-1559.	0.8	2