Hiroyoshi Kawakami

List of Publications by Year
in descending order

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72	1,028	394421	477307
papers	citations	19 h-index	29 g-index

72	72	72	1189
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High Proton Conductive and Low Gas Permeable Sulfonated Graft Copolyimide Membrane. Macromolecules, 2010, 43, 7185-7191.	4.8	65
2	Preparation of novel sulfonated block copolyimides for proton conductivity membranes. Polymers for Advanced Technologies, 2005, 16, 753-757.	3.2	61
3	Phosphoric acid-doped sulfonated polyimide and polybenzimidazole blend membranes: high proton transport at wide temperatures under low humidity conditions due to new proton transport pathways. Journal of Materials Chemistry, 2012, 22, 23767.	6.7	60
4	CO 2 separation of polymer membranes containing silica nanoparticles with gas permeable nano-space. Journal of Membrane Science, 2017, 536, 148-155.	8.2	57
5	Preparation of ultrafine uniform electrospun polyimide nanofiber. Polymer Journal, 2010, 42, 514-518.	2.7	46
6	Ultra-high proton conduction in electrospun sulfonated polyimide nanofibers. RSC Advances, 2014, 4, 20005-20009.	3.6	36
7	Synthesis of Water-Soluble Dinuclear Mn-Porphyrin with Multiple Antioxidative Activities. ACS Medicinal Chemistry Letters, 2014, 5, 639-643.	2.8	35
8	Free-standing polydimethylsiloxane-based cross-linked network solid polymer electrolytes for future lithium ion battery applications. Electrochimica Acta, 2019, 307, 148-156.	5.2	35
9	Membrane formation mechanism and permeation properties of a novel porous polyimide membrane. Polymers for Advanced Technologies, 2002, 13, 370-380.	3.2	33
10	Polymeric membrane materials for artificial organs. Journal of Artificial Organs, 2008, 11, 177-181.	0.9	32
11	Bifunctional poly(ethylene glycol) based crosslinked network polymers as electrolytes for allâ€solidâ€state lithium ion batteries. Polymer International, 2019, 68, 684-693.	3.1	32
12	Fabrication of wellâ€aligned electrospun nanofibrous membrane based on fluorinated polyimide. Polymers for Advanced Technologies, 2010, 21, 861-866.	3.2	29
13	Superhigh CO₂-Permeable Mixed Matrix Membranes Composed of a Polymer of Intrinsic Microporosity (PIM-1) and Surface-Modified Silica Nanoparticles. ACS Applied Polymer Materials, 2019, 1, 2516-2524.	4.4	27
14	Preparation and proton conductivity of phosphoric acidâ€doped blend membranes composed of sulfonated block copolyimides and polybenzimidazole. Polymer International, 2013, 62, 703-708.	3.1	24
15	Core/shell-like structured ultrafine branched nanofibers created by electrospinning. Polymer Journal, 2014, 46, 792-799.	2.7	23
16	Albumin adsorption to surface of annealed fluorinated polyimide. Polymers for Advanced Technologies, 2001, 12, 244-252.	3.2	22
17	Proton-conductive membranes based on blends of polyimides. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 1325-1332.	2.1	22
18	Carbon nanofibers prepared from electrospun polyimide, polysulfone and polyacrylonitrile nanofibers by ion-beam irradiation. Polymer Journal, 2013, 45, 1210-1215.	2.7	21

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19	Fabrication and characterizations of soft and flexible Poly(dimethylsiloxane)-incorporated network polymer electrolyte membranes. Polymer, 2020, 186, 122045.	3.8	21
20	Neuronal attachment and outgrowth on a micropatterned fluorinated polyimide surface. Journal of Artificial Organs, 2004, 7, 83-90.	0.9	18
21	Fabrication of three-dimensionally ordered microporous membrane by wet phase separation. Journal of Applied Polymer Science, 2004, 92, 3016-3021.	2.6	18
22	The potential of lipid-polymer nanoparticles as epigenetic and ROS control approaches for COPD. Free Radical Research, 2020, 54, 829-840.	3.3	18
23	Evaluation of blood compatibility of fluorinated polyimide by immunolabeling assay. Journal of Artificial Organs, 2001, 4, 107-112.	0.9	14
24	pH-sensitive liposome retaining Fe-porphyrin as SOD mimic for novel anticancer drug delivery system. Polymers for Advanced Technologies, 2007, 18, 82-87.	3.2	12
25	Structure and gas permeability of asymmetric polyimide membranes made by dryâ€“wet phase inversion: Influence of alcohol as casting solution. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 2739-2746.	2.1	12
26	Preparation and characterization of sulfonated block-graft copolyimide/sulfonated polybenzimidazole blend membranes for fuel cell application. Polymer International, 2015, 64, 1079-1085.	3.1	12
27	Plasmid DNA Mono-Ion Complex Stabilized by Hydrogen Bond for In Vivo Diffusive Gene Delivery. Biomacromolecules, 2015, 16, 1226-1231.	5.4	12
28	Fabrication and electrolyte characterization of uniaxially-aligned anion conductive polymer nanofibers. Nanoscale, 2016, 8, 19614-19619.	5.6	12
29	Anion conductive polymer nanofiber composite membrane: effects of nanofibers on polymer electrolyte characteristics. Polymer International, 2017, 66, 382-387.	3.1	12
30	Poly(L-histidine) with several aminoethyl groups for a new pH-sensitive DNA carrier. Polymers for Advanced Technologies, 2005, 16, 567-570.	3.2	11
31	Carboxymethyl poly(L-histidine) as a new pH-sensitive polypeptide at endosomal/lysosomal pH. Polymers for Advanced Technologies, 2007, 18, 329-333.	3.2	11
32	Catalytic antioxidants for therapeutic medicine. Journal of Materials Chemistry B, 2019, 7, 3165-3191.	5.8	11
33	Biodegradation and Biocompatibility of Polyorganophosphazene. Artificial Organs, 2002, 26, 883-890.	1.9	10
34	Design of a poly(L-histidine)-carbohydrate conjugate for a new pH-sensitive drug carrier. Polymers for Advanced Technologies, 2004, 15, 439-444.	3.2	10
35	Byproduct-Free Intact Modification of Insulin by Cholesterol End-Modified Poly(ethylene glycol) for in Vivo Protein Delivery. Bioconjugate Chemistry, 2018, 29, 67-73.	3.6	10
36	Fabrication and Electrolyte Characterizations of Nanofiber Framework-Based Polymer Composite Membranes with Continuous Proton Conductive Pathways. Membranes, 2021, 11, 90.	3.0	10

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37	Development of a fluorinated polyimide hollow fiber for medical devices. Journal of Artificial Organs, 2003, 6, 124-129.	0.9	9
38	Cell processing on polyimide surface patterned by rubbing. Polymers for Advanced Technologies, 2008, 19, 1002-1008.	3.2	9
39	Gas transport properties of asymmetric polyimide membranes prepared by plasmaâ€based ion implantation. Polymers for Advanced Technologies, 2009, 20, 987-992.	3.2	9
40	Gas Transport Properties of Asymmetric Block Copolyimide Membranes. Polymer Journal, 2009, 41, 961-967.	2.7	9
41	Synthesis of Carboxymethyl Poly(1-vinylimidazole) as a Polyampholyte for Biocompatibility. Chemistry Letters, 2013, 42, 358-360.	1.3	9
42	Screening for Methylated Poly(âŒš-histidine) with Various Dimethylimidazolium/Methylimidazole/Imidazole Contents as DNA Carrier. Pharmaceutics, 2015, 7, 224-232.	4.5	8
43	Solvated Ionicâ€Liquid Incorporated Soft Flexible Crossâ€Linked Network Polymer Electrolytes for Safer Lithium Ion Secondary Batteries. Macromolecular Chemistry and Physics, 2022, 223, 2100317.	2.2	8
44	Structure-activity relationship between Zn 2+ -chelated alkylated poly(1-vinylimidazole) and gene transfection. Journal of Inorganic Biochemistry, 2017, 173, 120-125.	3.5	7
45	Preparation and Characterization of Phosphoric Acid-doped Blend Membrane Composed of Sulfonated Poly(arylene ether sulfone) and Polybenzimidazole for Fuel Cell Application. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2015, 28, 181-186.	0.3	6
46	Polymer Electrolyte Characteristics of Sulfonated Block-graft Polyimide Membranes: Influence of Block Ratio. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 259-263.	0.3	6
47	Secondary Battery Performance of Solid Polymer Electrolyte Membranes Based on Lithium Ion Conductive Polyimide Nanofibers. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 33, 321-325.	0.3	6
48	Facile Method of Protein PEGylation by a Mono-Ion Complex. ACS Omega, 2017, 2, 2382-2386.	3.5	5
49	Plasmid DNA Mono-Ion Complex for in Vivo Sustainable Gene Expression. ACS Omega, 2019, 4, 11464-11471.	3.5	5
50	Structure and gas permeation properties of asymmetric polyimide membranes made by dryâ€“wet phase inversion: Influence of the polyimide molecular weight. Journal of Applied Polymer Science, 2010, 118, 105-112.	2.6	4
51	Design of lipoprotein-adsorbed liposomes retaining Mn-porphyrins for SOD mimic delivery to brains. Desalination and Water Treatment, 2010, 17, 31-36.	1.0	4
52	Gas Permeable Mixed Matrix Membranes Composed of a Polymer of Intrinsic Microporosity (PIM-1) and Surface-modified Pearl-necklace Silica Nanoparticles: Effect of Expansion of Nano-space on Gas Permeability. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 33, 313-320.	0.3	4
53	Gas Adsorption and Diffusion Behaviors in Interfacial Systems Composed of a Polymer of Intrinsic Microporosity and Amorphous Silica: A Molecular Simulation Study. Langmuir, 2022, 38, 7567-7579.	3.5	4
54	Influence of Surface Skin Layer of Asymmetric Polyimide Membrane on Gas Permselectivity. ACS Symposium Series, 1999, , 79-86.	0.5	3

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55	Control of cell morphology on the polyimide surface patterned by rubbing and ionâ€irradiation. Polymers for Advanced Technologies, 2011, 22, 1311-1314.	3.2	3
56	Ion-beam Irradiation on Electrospun Ladder-type Polyimide Nanofibers. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 313-318.	0.3	3
57	Influence of Chemical Modification on CO₂ Permeability of Polymers of Intrinsic Microporosity / Silica Nanoparticles Composite Membranes. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 457-461.	0.3	2
58	Preparation of Biodegradable Polymer Nanospheres Containing Manganese Porphyrin (Mn-Porphyrin). Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 1010-1018.	3.7	2
59	Fabrication and Characterizations of Polymer Electrolyte Composite Membranes Consisted of Polymer Nanofiber Framework Bearing Connected Proton Conductive Pathways. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2021, 34, 463-468.	0.3	2
60	Development of highly alkaline stable anion conductive polymers with fluorene backbone for water electrolysis. Polymers for Advanced Technologies, 2022, 33, 2863-2871.	3.2	2
61	Preparation of novel organic-inorganic nanoporous membranes. Polymers for Advanced Technologies, 2005, 16, 698-701.	3.2	1
62	Carbon Structure in Polyimide Membrane Formed by Ion Irradiation. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 507-510.	0.3	1
63	Design of epigenetics control carrier for simultaneous transfection of histone acetyltransferase with histone deacetylase inhibitor to continuous histone acetylation. Polymer Journal, 2016, 48, 561-564.	2.7	1
64	Gas Separation Membrane Composed of Polyimide and Surface-modified Nanoparticles: Influence of Surface-modification Structures on Gas Permeation Properties. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 593-598.	0.3	1
65	Colloidal CdS Quantum Dot Fibers Prepared by Electrospinning of Their Wet Gel for Quantum Nanowires. ACS Applied Nano Materials, 2022, 5, 3756-3762.	5.0	1
66	Cell Culture on Nano- or Micro-relief pattern Surface. Membrane, 2007, 32, 266-270.	0.0	0
67	Cell Adhesion on Polyimide Surface Patterned by Ion-irradiation. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2008, 21, 137-141.	0.3	0
68	Hepatocyte spheroids formed on rubbed polyimide membrane for cell transplantation. Desalination and Water Treatment, 2010, 17, 227-232.	1.0	0
69	Tuning of the methylimidazolium/imidazole balance in polycations for gene carrier. Polymers for Advanced Technologies, 2014, 25, 823-826.	3.2	0
70	Preparation of Mitochondriaâ€and Epigeneticsâ€Targeting Nanoparticles for Suppression of Cancer Metastasis. Particle and Particle Systems Characterization, 2021, 38, 2100003.	2.3	0
71	Preparation of Novel All Solid Electrolyte Membranes Consisted of Ion Conductive Nanofiber Framework. Membrane, 2017, 42, 148-152.	0.0	0
72	Effect of Phase Separation due to Solvent Evaporation on Particle Aggregation in the Skin Layer of the Gas Separation Membrane. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2021, 34, 449-456.	0.3	0