

Yasunari Maekawa

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Radiation grafting of styrene into crosslinked PTEE films and subsequent sulfonation for fuel cell applications. <i>Radiation Physics and Chemistry</i> , 2003, 67, 403-407.	2.8	79
2	Degradation manner of polymer grafts chemically attached on thermally stable polymer films: swelling-induced detachment of hydrophilic grafts from hydrophobic polymer substrates in aqueous media. <i>Journal of Materials Chemistry</i> , 2011, 21, 9343.	6.7	40
3	Poly(ethylene-co-tetrafluoroethylene) (ETFE)-based graft-type polymer electrolyte membranes with different ion exchange capacities: Relative humidity dependence for fuel cell applications. <i>Journal of Membrane Science</i> , 2013, 447, 19-25.	8.2	39
4	Hierarchical Structure-Property Relationships in Graft-Type Fluorinated Polymer Electrolyte Membranes Using Small- and Ultrasmall-Angle X-ray Scattering Analysis. <i>Macromolecules</i> , 2014, 47, 2373-2383.	4.8	32
5	Novel UV-induced photografting process for preparing poly(tetrafluoroethylene)-based proton-conducting membranes. <i>Journal of Polymer Science Part A</i> , 2007, 45, 2624-2637.	2.3	26
6	Alkaline durable 2-methylimidazolium containing anion-conducting electrolyte membranes synthesized by radiation-induced grafting for direct hydrazine hydrate fuel cells. <i>Journal of Membrane Science</i> , 2019, 573, 403-410.	8.2	22
7	Alkaline fuel cells consisting of imidazolium-based graft-type anion exchange membranes: Optimization of fuel cell conditions to achieve high performance and durability. <i>Journal of Membrane Science</i> , 2021, 620, 118844.	8.2	21
8	Hierarchical Structure Analysis of Graft-Type Polymer Electrolyte Membranes Consisting of Cross-Linked Polytetrafluoroethylene by Small-Angle Scattering in a Wide-Q Range. <i>Macromolecules</i> , 2012, 45, 9121-9127.	4.8	19
9	Influence of pre-irradiation atmosphere on the properties of polymer electrolyte membranes prepared using radiation grafting method. <i>Journal of Materials Science</i> , 2007, 42, 1330-1335.	3.7	16
10	Counter-Anion Effect on the Properties of Anion-Conducting Polymer Electrolyte Membranes Prepared by Radiation-Induced Graft Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1756-1762.	2.2	16
11	Graft-type polymer electrolyte membranes based on poly(ether ether ketone)/nanosilica hybrid films for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18621-18630.	7.1	16
12	Polymerization of Diphenylbutadiyne by Gamma Rays Irradiation in the Molten State. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 521, 237-245.	0.9	12
13	Preirradiation Graft Polymerization of Styrene in a Poly(tetrafluoroethylene) Film Investigated by Time-Resolved Small-Angle Neutron Scattering. <i>International Journal of Polymer Science</i> , 2011, 2011, 1-7.	2.7	12
14	Nanoscale structures of radiation-grafted polymer electrolyte membranes investigated via a small-angle neutron scattering technique. <i>Polymer Journal</i> , 2013, 45, 797-801.	2.7	11
15	Application of graft-type poly(ether ether ketone)-based polymer electrolyte membranes to electrochemical devices - Fuel cells and electrolytic enrichment of tritium. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8927-8935.	7.1	11
16	A Novel Characterization Method for Graft-Polymer Structures Chemically Attached on Thermally Stable Polymer Films. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 72-78.	2.2	10
17	Crystal morphology-dependent graft polymerization in poly(ether ether ketone) films. <i>Polymer</i> , 2013, 54, 2895-2900.	3.8	9
18	Imidazolium-Based Anion Exchange Membranes for Alkaline Anion Fuel Cells: Interplay between Morphology and Anion Transport Behavior. <i>Journal of the Electrochemical Society</i> , 2019, 166, F472-F478.	2.9	9

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19	Poly(vinylidene fluoride)-Based Ion Track Membranes with Different Pore Diameters and Shapes. SEM Observations and Conductometric Analysis. <i>Electrochemistry</i> , 2010, 78, 146-149.	1.4	8
20	Water Transport in Polymer Electrolyte Membranes Investigated by Dissipative Particle Dynamics Simulation. <i>ECS Transactions</i> , 2010, 33, 1067-1078.	0.5	8
21	SAXS Investigation on Morphological Change in Lamellar Structures During Propagation Steps of Graft-type Polymer Electrolyte Membranes for Fuel Cell Applications. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900325.	2.2	8
22	Basicity-dependent properties of anion conducting membranes consisting of iminium cations for alkaline fuel cells. <i>Journal of Polymer Science Part A</i> , 2019, 57, 503-510.	2.3	6
23	Formation of Fe Nanoparticles by Ion Implantation Technique for Catalytic Graphitization of a Phenolic Resin. <i>Quantum Beam Science</i> , 2020, 4, 11.	1.2	6
24	Mechanistic study on radiation-induced grafting into fluorinated polymer solid films using a swelling-induced detachment of grafted polymers. <i>Journal of Polymer Science</i> , 2021, 59, 108-116.	3.8	6
25	Investigation of Nanopore Evolution in Track-Etched Poly(vinylidene fluoride) Membranes. <i>Transactions of the Materials Research Society of Japan</i> , 2012, 37, 223-226.	0.2	5
26	Graft-type polymer electrolyte membranes for fuel cells prepared through radiation-induced graft polymerization into alicyclic polybenzimidazoles. <i>Polymer</i> , 2013, 54, 4570-4577.	3.8	5
27	Sensitivity enhancement of poly(methyl methacrylate) upon exposure to picosecond-pulsed extreme ultraviolet. <i>Applied Physics Letters</i> , 2019, 115, 073109.	3.3	5
28	Morphological characterization of grafted polymer electrolyte membranes at a surface layer for fuel cell application. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51901.	2.6	5
29	Radiation-Induced Asymmetric Grafting of Different Monomers into Base Films to Prepare Novel Bipolar Membranes. <i>Molecules</i> , 2021, 26, 2028.	3.8	3
30	Synthesis and Characterization of 4-vinylimidazolium/Styrene-Cografted Anion-Conducting Electrolyte Membranes. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2100028.	2.2	2
31	Soft x-ray laser beamline for surface processing and damage studies. <i>Applied Optics</i> , 2020, 59, 3692.	1.8	2
32	Positron Annihilation Lifetime Study of Graft-Type Fluorinated Polymer Electrolyte Membranes. <i>Materials Science Forum</i> , 2008, 607, 70-72.	0.3	1
33	Ion-Track Membranes of Poly(vinylidene fluoride): Etching Characteristics during Conductometric Analysis. <i>Transactions of the Materials Research Society of Japan</i> , 2013, 38, 105-108.	0.2	1
34	Cation and Anion Exchange Membranes Prepared by Radiation-Induced Graft Polymerization for Application in Electrodialysis. <i>Advanced Materials Research</i> , 0, 881-883, 1157-1160.	0.3	1
35	Development of Hydrogen-Permselective Porous Membranes Using Radiation-Induced Graft Polymerization. <i>Quantum Beam Science</i> , 2020, 4, 23.	1.2	1
36	Coarse-grained molecular dynamics simulation to reproduce phase-separated structures in graft-type polymer electrolyte membranes. <i>Polymer</i> , 2021, 230, 124036.	3.8	1

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37	Quantum Beams Applying to Innovative Industrial Materials. Quantum Beam Science, 2020, 4, 27.	1.2	0
38	Study on Irradiation Effects by Femtosecond-pulsed Extreme Ultraviolet in Resist Materials. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2021, 34, 95-98.	0.3	0