Shinji Kanehashi

List of Publications by Year
in descending order

90 papers	1,970 citations	304602 22 h-index	265120 42 g-index
94 all docs	94 docs citations	94 times ranked	2315 citing authors

#	Article	IF	Citations
1	Analysis of dual-mode model parameters for gas sorption in glassy polymers. Journal of Membrane Science, 2005, 253, 117-138.	4.1	220
2	Effects of various liquid organic solvents on solventâ€induced crystallization of amorphous poly(lactic acid) film. Journal of Applied Polymer Science, 2013, 129, 1607-1617.	1.3	153
3	Tailoring Physical Aging in Super Glassy Polymers with Functionalized Porous Aromatic Frameworks for CO₂ Capture. Chemistry of Materials, 2015, 27, 4756-4762.	3.2	107
4	Analysis of permeability; solubility and diffusivity of carbon dioxide; oxygen; and nitrogen in crystalline and liquid crystalline polymers. Journal of Membrane Science, 2010, 365, 40-51.	4.1	106
5	CO2 separation properties of a glassy aromatic polyimide composite membranes containing high-content 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquid. Journal of Membrane Science, 2013, 430, 211-222.	4.1	105
6	Effects of carbon dioxide-induced plasticization on the gas transport properties of glassy polyimide membranes. Journal of Membrane Science, 2007, 298, 147-155.	4.1	104
7	Preparation and characterization of cardanolâ€based epoxy resin for coating at room temperature curing. Journal of Applied Polymer Science, 2013, 130, 2468-2478.	1.3	84
8	Characterization and gas permeation properties of polyimide/ZSM-5 zeolite composite membranes containing ionic liquid. Journal of Membrane Science, 2014, 454, 330-338.	4.1	71
9	Water vapor permeation through cellulose acetate membranes and its impact upon membrane separation performance for natural gas purification. Journal of Membrane Science, 2015, 487, 249-255.	4.1	66
10	Enhancing gas permeability in mixed matrix membranes through tuning the nanoparticle properties. Journal of Membrane Science, 2015, 482, 49-55.	4.1	65
11	Gas Transport Properties and Crystalline Structures of Poly(lactic acid) Membranes. Transactions of the Materials Research Society of Japan, 2010, 35, 241-246.	0.2	56
12	Permeability, diffusivity, and solubility of benzene vapor and water vapor in high free volume silicon- or fluorine-containing polymer membranes. Journal of Membrane Science, 2010, 360, 352-362.	4.1	51
13	The opportunity of membrane technology for hydrogen purification in the power to hydrogen (P2H) roadmap: a review. Frontiers of Chemical Science and Engineering, 2021, 15, 464-482.	2.3	43
14	Water permeability and competitive permeation with CO 2 and CH 4 in perfluorinated polymeric membranes. Separation and Purification Technology, 2015, 147, 203-209.	3.9	42
15	Nitrogen permeability and carbon dioxide solubility in poly(1-trimethylsilyl-1-propyne)-based binary substituted polyacetylene blends. Journal of Membrane Science, 2005, 251, 101-110.	4.1	36
16	The impact of water vapor on CO2 separation performance of mixed matrix membranes. Journal of Membrane Science, 2015, 492, 471-477.	4.1	29
17	Ion-Conductive and Elastic Slide-Ring Gel Li Electrolytes Swollen with Ionic Liquid. Electrochimica Acta, 2017, 229, 166-172.	2.6	28
18	Gas permeation and separation properties of polyimide/ZSMâ€5 zeolite composite membranes containing liquid sulfolane. Journal of Applied Polymer Science, 2013, 128, 3814-3823.	1.3	27

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19	Development of a cashew nut shell liquid (CNSL)â€based polymer for antibacterial activity. Journal of Applied Polymer Science, 2015, 132, .	1.3	26
20	Thermoelectric Properties of Poly(3-Hexylthiophene) Nanofiber Mat with a Large Void Fraction. Materials, 2017, 10, 468.	1.3	24
21	Polymer of Intrinsic Microporosity (PIM-1) Membranes Treated with Supercritical CO2. Membranes, 2019, 9, 41.	1.4	24
22	Development of bio-based hybrid resin, from natural lacquer. Progress in Organic Coatings, 2014, 77, 24-29.	1.9	22
23	Thermoelectric Properties of Poly(3-hexylthiophene) Nanofiber Aerogels with a Giant Seebeck Coefficient. ACS Applied Polymer Materials, 2021, 3, 455-463.	2.0	22
24	Relationship between the gas transport properties and the refractive index in highâ€free€volume fluorineâ€containing polyimide membranes. Journal of Applied Polymer Science, 2011, 121, 2794-2803.	1.3	21
25	Effects of irradiation with vacuum ultraviolet xenon excimer lamp at 172nm on water vapor transport through poly(lactic acid) membranes. Desalination, 2012, 287, 290-300.	4.0	21
26	Effect of substituted groups on characterization and water vapor sorption property of polyhedral oligomeric silsesquioxane (POSS)-containing methacryl polymer membranes. Polymer, 2013, 54, 2315-2323.	1.8	20
27	Effect of OH group on the water vapor sorption property of adamantane-containing polymer membranes. Journal of Membrane Science, 2013, 427, 176-185.	4.1	20
28	Membrane color and gas permeability of 6FDAâ€TeMPD polyimide membranes prepared with various membrane preparation protocols. Polymer Engineering and Science, 2011, 51, 2360-2369.	1.5	19
29	The effect of temperature on the permeation properties of Sulphonated Poly (Ether Ether) Ketone in wet flue gas streams. Journal of Membrane Science, 2016, 519, 55-63.	4.1	17
30	Photopolymerization of Bio-Based Epoxy Prepolymers Derived from Cashew Nut Shell Liquid (CNSL). Journal of Fiber Science and Technology, 2017, 73, 210-221.	0.2	17
31	Effects of industrial gas impurities on the performance of mixed matrix membranes. Journal of Membrane Science, 2018, 549, 686-692.	4.1	17
32	Permeability of Dry Gases and Those Dissolved in Water through Hydrophobic High Free-Volume Silicon- or Fluorine-Containing Nonporous Glassy Polymer Membranes. Industrial & Engineering Chemistry Research, 2013, 52, 1133-1140.	1.8	16
33	Thermoelectric properties of PEDOT:PSS aerogel secondary-doped in supercritical CO2 atmosphere with low thermal conductivity. Polymer, 2020, 206, 122912.	1.8	16
34	Synthesis and characterization of <scp>ABA</scp>â€type triblock copolymers derived from polyimide and poly(2â€methylâ€2â€adamantyl methacrylate). Polymer International, 2014, 63, 1634-1642.	1.6	15
35	Polymeric membrane gas separation performance improvements through supercritical CO2 treatment. Journal of Membrane Science, 2018, 566, 239-248.	4.1	15
36	Characterization and water vapor sorption property of ABA-type triblock copolymers derived from polyimide and poly(methyl methacrylate). Polymer International, 2014, 63, 435-444.	1.6	12

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37	Transformation of a Kurome natural lacquer film from glassy to rubbery polymer by the presence of moisture. Progress in Organic Coatings, 2017, 104, 43-49.	1.9	12
38	Microfluidic Fabrication of Morphology-Controlled Polymeric Microspheres of Blends of Poly(4-butyltriphenylamine) and Poly(methyl methacrylate). Materials, 2018, 11, 582.	1.3	12
39	Characterization and gasâ€permeation properties of crosslinked diacetyleneâ€containing polymer membranes from ferulic acid. Journal of Applied Polymer Science, 2013, 130, 277-286.	1.3	11
40	Synthesis and Characterization of Biobased Polyesters Derived from Vanillin-based Schiff Base and Cinnamic Acid Derivatives. Chemistry Letters, 2016, 45, 439-441.	0.7	11
41	Gas transport and optical properties of ABA-type triblock copolymers designed using fluorine-containing polyimide macroinitiators with methyl methacrylate. Polymer International, 2013, 62, 1377-1385.	1.6	9
42	Single-Component Polycondensation of Bis(alkoxycarbonyldiazomethyl)aromatic Compounds To Afford Poly(arylene vinylene)s with an Alkoxycarbonyl Group on Each Vinylene Carbon Atom. ACS Omega, 2020, 5, 4787-4797.	1.6	9
43	Enhancement of Outâ€ofâ€Plane Hole Mobility in Poly(3â€Hexylthiophene)â€bâ€Poly(styrene) Film. Macromolecular Chemistry and Physics, 2018, 219, 1800186.	1.1	8
44	Hydrophilic molecular sieve surface layer formation in hydrophobic poly(1-trimethylsilyl-1-propyne) membranes. Journal of Membrane Science, 2013, 429, 364-372.	4.1	7
45	Synthesis, characterization, and CO₂ permeation properties of acetyleneâ€terminated polyimide membranes. Polymer Engineering and Science, 2013, 53, 1667-1675.	1.5	7
46	Development of biobased microwave absorbing composites with various magnetic metals and carbons. Journal of Applied Polymer Science, 2016, 133, .	1.3	7
47	Fabrication of Core-Shell, Janus, Dumbbell, Snowman-Like and Confetti- Like Structured Microspheres of Blends of Poly (4-butyl triphenylamine) and Poly (methyl methacrylate) by Solvent Evaporation Method. Journal of Fiber Science and Technology, 2019, 75, 022-028.	0.2	7
48	Effects of Nanofiller-Induced Crystallization on Gas Barrier Properties in Poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (acid)/M 12590-12599.	1.8	7
49	Perspective of mixed matrix membranes for carbon capture. Frontiers of Chemical Science and Engineering, 2020, 14, 460-469.	2.3	7
50	Radical Copolymerization of Ferulic Acid Derivatives with Ethylenic Monomers. Journal of Fiber Science and Technology, 2016, 72, 74-79.	0.2	7
51	Fabrication, characterization, and thermoelectric properties of soft polyurethane foam loaded with semiconducting poly(3â€hexylthiophene) nanofibers. Journal of Applied Polymer Science, 2022, 139, .	1.3	7
52	Dependence of alcohol vaporâ€induced crystallization on gas and vapor permeabilities of poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.3	6
53	Can the addition of carbon nanoparticles to a polyimide membrane reduce plasticization?. Separation and Purification Technology, 2017, 183, 333-340.	3.9	6
54	Synthesis and properties of a new AIE macrocyclic emitter with triarylamine backbone. Tetrahedron Letters, 2017, 58, 3579-3582.	0.7	6

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55	Incorporation of benzothiadiazole moiety at junction of polyfluoreneâ€“polytriarylamime block copolymer for effective color tuning in organic light emitting diode. Journal of Applied Polymer Science, 2017, 134, 45393.	1.3	6
56	Electrical Double Percolation of Polybutadiene/Polyethylene Glycol Blends Loaded with Conducting Polymer Nanofibers. Polymers, 2020, 12, 2658.	2.0	6
57	Development of Hybrid Membranes for Carbon Capture. Kobunshi Ronbunshu, 2016, 73, 475-490.	0.2	5
58	Hole Transporting Properties of Cyclic Pentamer of 4-Butyltriphenylamine. Chemistry Letters, 2017, 46, 1145-1147.	0.7	5
59	Fabrication of Completely Polymer-Based Solar Cells with p- and n-Type Semiconducting Block Copolymers with Electrically Inert Polystyrene. Materials, 2018, 11, 343.	1.3	5
60	Characterization and CO₂ sorption properties of poly[methacryloxypropylheptacyclopentylâ€T8â€silsesquioxaneâ€• coâ€3â€methacryloxypropyltris(trimethylsiloxy)silane]. Journal of Applied Polymer Science, 2013, 129, 2036-2045.	1.3	4
61	Synthesis and Characterization of Biobased Poly (Ether Benzoxazole) Derived from Vanillin. Journal of Fiber Science and Technology, 2016, 72, 89-95.	0.2	4
62	Synthesis of polyfluorene-polytriarylamine block copolymers with light-emitting benzothiadiazole moieties: effect of chromophore location on electroluminescent properties. Polymer Journal, 2017, 49, 721-728.	1.3	4
63	Transition of phase-separated PBTPA/PMMA solution droplets from coreâ€“shell to Janus morphology under UV light irradiation. Polymer Journal, 2018, 50, 1089-1092.	1.3	4
64	Ionic transport and mechanical properties of slide-ring gel swollen with Mg-ion electrolytes. Ionics, 2020, 26, 255-261.	1.2	4
65	Microfluidic fabrication of polymer blend particles containing poly(4-butyltriphenylamine)-block-poly(methyl methacrylate): effect of block copolymer and rate of solvent evaporation on morphology. Colloid and Polymer Science, 2021, 299, 969-978.	1.0	4
66	Synthesis and gas transport properties of UV-cured low-viscosity fluorine-containing telechelic polyimide membranes. Desalination and Water Treatment, 2013, 51, 5138-5148.	1.0	3
67	Characterization and gas permeation properties of UV-cured fluorine-containing telechelic polyimide membranes with a crosslinker. Polymer Engineering and Science, 2014, 54, 1089-1099.	1.5	3
68	Fabrication of inverse coreâ€“shell and Janus-structured microspheres of blends of poly(4-butyltriphenylamine) and poly(methyl methacrylate). Colloid and Polymer Science, 2020, 298, 251-261.	1.0	3
69	One-pot synthesis of conjugated triphenylamine macrocycles and their complexation with fullerenes. RSC Advances, 2021, 11, 33431-33437.	1.7	3
70	Effects of Heat-, Solvent-, and Photo-Induced Crystallization on Crystalline Structures and Gas Transport Properties through Poly(lactic acid) Membrane. Kobunshi Ronbunshu, 2014, 71, 187-201.	0.2	2
71	Development of Room Temperature Curable Natural Polyphenols-Based Hybrid Epoxy Polymers. Journal of Fiber Science and Technology, 2017, 73, 192-201.	0.2	2
72	Characterization of Pseudo Photorefractive Materials Based on Polyacrylate Containing 9-Oxo-9<i>H</i>-thioxanthene-10,10-dioxide Moiety. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 711-717.	0.1	2

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73	Semiconducting Properties of the Hybrid Film of Elastic Poly(styrene-b-butadiene-b-styrene) Block Copolymer and Semiconducting Poly(3-hexylthiophene) Nanofibers. Polymers, 2020, 12, 2118.	2.0	2
74	Microstructure and Gas Diffusivity of Poly(dimethylsiloxane) Dense Membrane Using Molecular Dynamics (MD) Simulation. Transactions of the Materials Research Society of Japan, 2012, 37, 439-442.	0.2	2
75	Synthesis and electron transporting properties of triblock copolymers consisting of polyfluorene and polystyrene. Japanese Journal of Applied Physics, 2022, 61, SE1008.	0.8	2
76	Cyclic Emitter with Tetraphenylsilane and Tetraphenylethene Units Exhibiting Tunable Color Emissions. Chemistry Letters, 2017, 46, 1546-1549.	0.7	1
77	2.8 Fundamentals and Perspectives for Pervaporation. , 2017, , 191-225.		1
78	Improvement of Photorefractivity in PVK Based Composite by Doping of Graphene. Journal of Fiber Science and Technology, 2018, 74, 215-220.	0.2	1
79	Pseudo Photorefractivity and Structural Correlation for Polyacrylate Containing Thioxanthene Moiety Doped with EO Active Chromophores. Journal of Fiber Science and Technology, 2018, 74, 202-206.	0.2	1
80	Study on effect of supercritical CO₂ on structural ordering and charge transporting property in thiophene-based block copolymer. Japanese Journal of Applied Physics, 2022, 61, 021001.	0.8	1
81	Synthesis and characterization of n-type semiconducting graft copolymers with polystyrene side chains. Japanese Journal of Applied Physics, 2022, 61, SE1017.	0.8	1
82	Synthesis and Characterization of Triarylamine-Based Copolymers Containing Carbazole Units Linked at 3,9 Positions in Main Chain. Kobunshi Ronbunshu, 2017, 74, 508-516.	0.2	0
83	Temperature Characteristic of pn Junction Diode Using Composite Film of Conductive Polymer Nanofibers. Kobunshi Ronbunshu, 2017, 74, 557-564.	0.2	0
84	Formation of Hierarchical Structure in Microspheres Fabricated with Microfluidic Method based on Homopolymer Blend. Journal of Fiber Science and Technology, 2021, 77, 128-135.	0.2	0
85	Formation of biomimetic hierarchical nanostructure in homopolymers and block copolymer ternary blend particles. Particuology, 2022, 64, 98-109.	2.0	0
86	Development of Novel Bio-Based Functional Polymers Derived from Non-Food Natural Polyphenols. Journal of Fiber Science and Technology, 2017, 73, P-302-P-307.	0.0	0
87	Impurity Impacts on Gas Separation Performance of Polymeric Membranes. Membrane, 2019, 44, 256-268.	0.0	0
88	Introduction of Î²-Diketone Unit to Polyfluorene Side Chain for Improving Color Stability and Electron Transporting Property. Chemistry Letters, 2022, 51, 448-450.	0.7	0
89	Synthesis and Electron Transporting Properties of Polyfluorene-<i>graft</i>-Polystyrene. Journal of Fiber Science and Technology, 2022, 78, 81-88.	0.2	0
90	Development of Advanced Functional Materials for Carbon Neutral and Circular Economy. Journal of Fiber Science and Technology, 2022, 78, 207-212.	0.0	0