

# Shinji Kanehashi

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Formation of biomimetic hierarchical nanostructure in homopolymers and block copolymer ternary blend particles. <i>Particuology</i> , 2022, 64, 98-109.	2.0	0
2	Study on effect of supercritical CO <sub>2</sub> on structural ordering and charge transporting property in thiophene-based block copolymer. <i>Japanese Journal of Applied Physics</i> , 2022, 61, 021001.	0.8	1
3	Synthesis and electron transporting properties of triblock copolymers consisting of polyfluorene and polystyrene. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SE1008.	0.8	2
4	Synthesis and characterization of n-type semiconducting graft copolymers with polystyrene side chains. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SE1017.	0.8	1
5	Introduction of <i>1,4</i> -Diketone Unit to Polyfluorene Side Chain for Improving Color Stability and Electron Transporting Property. <i>Chemistry Letters</i> , 2022, 51, 448-450.	0.7	0
6	Fabrication, characterization, and thermoelectric properties of soft polyurethane foam loaded with semiconducting poly(3-hexylthiophene) nanofibers. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	7
7	Synthesis and Electron Transporting Properties of Polyfluorene- <i>g</i> -Polystyrene. <i>Journal of Fiber Science and Technology</i> , 2022, 78, 81-88.	0.2	0
8	Development of Advanced Functional Materials for Carbon Neutral and Circular Economy. <i>Journal of Fiber Science and Technology</i> , 2022, 78, 207-212.	0.0	0
9	Thermoelectric Properties of Poly(3-hexylthiophene) Nanofiber Aerogels with a Giant Seebeck Coefficient. <i>ACS Applied Polymer Materials</i> , 2021, 3, 455-463.	2.0	22
10	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. <i>Colloid and Polymer Science</i> , 2021, 299, 969-978.	1.0	4
11	Formation of Hierarchical Structure in Microspheres Fabricated with Microfluidic Method based on Homopolymer Blend. <i>Journal of Fiber Science and Technology</i> , 2021, 77, 128-135.	0.2	0
12	The opportunity of membrane technology for hydrogen purification in the power to hydrogen (P2H) roadmap: a review. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 464-482.	2.3	43
13	One-pot synthesis of conjugated triphenylamine macrocycles and their complexation with fullerenes. <i>RSC Advances</i> , 2021, 11, 33431-33437.	1.7	3
14	Ionic transport and mechanical properties of slide-ring gel swollen with Mg-ion electrolytes. <i>Ionics</i> , 2020, 26, 255-261.	1.2	4
15	Electrical Double Percolation of Polybutadiene/Polyethylene Glycol Blends Loaded with Conducting Polymer Nanofibers. <i>Polymers</i> , 2020, 12, 2658.	2.0	6
16	Semiconducting Properties of the Hybrid Film of Elastic Poly(styrene- <i>b</i> -butadiene- <i>b</i> -styrene) Block Copolymer and Semiconducting Poly(3-hexylthiophene) Nanofibers. <i>Polymers</i> , 2020, 12, 2118.	2.0	2
17	Effects of Nanofiller-Induced Crystallization on Gas Barrier Properties in Poly(lactic acid). <i>Polymers</i> , 2020, 12, 12590-12599.	1.8	7
18	Single-Component Polycondensation of Bis(alkoxycarbonyldiazomethyl)aromatic Compounds To Afford Poly(arylene vinylene)s with an Alkoxycarbonyl Group on Each Vinylene Carbon Atom. <i>ACS Omega</i> , 2020, 5, 4787-4797.	1.6	9

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19	Perspective of mixed matrix membranes for carbon capture. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 460-469.	2.3	7
20	Fabrication of inverse core-shell and Janus-structured microspheres of blends of poly(4-butyltriphenylamine) and poly(methyl methacrylate). <i>Colloid and Polymer Science</i> , 2020, 298, 251-261.	1.0	3
21	Thermoelectric properties of PEDOT:PSS aerogel secondary-doped in supercritical CO <sub>2</sub> atmosphere with low thermal conductivity. <i>Polymer</i> , 2020, 206, 122912.	1.8	16
22	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. <i>Journal of Fiber Science and Technology</i> , 2019, 75, 022-028.	0.2	7
23	Polymer of Intrinsic Microporosity (PIM-1) Membranes Treated with Supercritical CO <sub>2</sub> . <i>Membranes</i> , 2019, 9, 41.	1.4	24
24	Impurity Impacts on Gas Separation Performance of Polymeric Membranes. <i>Membrane</i> , 2019, 44, 256-268.	0.0	0
25	Effects of industrial gas impurities on the performance of mixed matrix membranes. <i>Journal of Membrane Science</i> , 2018, 549, 686-692.	4.1	17
26	Improvement of Photorefractivity in PVK Based Composite by Doping of Graphene. <i>Journal of Fiber Science and Technology</i> , 2018, 74, 215-220.	0.2	1
27	Characterization of Pseudo Photorefractive Materials Based on Polyacrylate Containing 9-Oxo-9H-thioxanthene-10,10-dioxide Moiety. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2018, 31, 711-717.	0.1	2
28	Pseudo Photorefractivity and Structural Correlation for Polyacrylate Containing Thioxanthene Moiety Doped with EO Active Chromophores. <i>Journal of Fiber Science and Technology</i> , 2018, 74, 202-206.	0.2	1
29	Polymeric membrane gas separation performance improvements through supercritical CO <sub>2</sub> treatment. <i>Journal of Membrane Science</i> , 2018, 566, 239-248.	4.1	15
30	Microfluidic Fabrication of Morphology-Controlled Polymeric Microspheres of Blends of Poly(4-butyltriphenylamine) and Poly(methyl methacrylate). <i>Materials</i> , 2018, 11, 582.	1.3	12
31	Fabrication of Completely Polymer-Based Solar Cells with p- and n-Type Semiconducting Block Copolymers with Electrically Inert Polystyrene. <i>Materials</i> , 2018, 11, 343.	1.3	5
32	Transition of phase-separated PBTPA/PMMA solution droplets from core-shell to Janus morphology under UV light irradiation. <i>Polymer Journal</i> , 2018, 50, 1089-1092.	1.3	4
33	Enhancement of Out-of-Plane Hole Mobility in Poly(3-Hexylthiophene)-Poly(styrene) Film. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800186.	1.1	8
34	Transformation of a Kurome natural lacquer film from glassy to rubbery polymer by the presence of moisture. <i>Progress in Organic Coatings</i> , 2017, 104, 43-49.	1.9	12
35	Ion-Conductive and Elastic Slide-Ring Gel Li Electrolytes Swollen with Ionic Liquid. <i>Electrochimica Acta</i> , 2017, 229, 166-172.	2.6	28
36	Can the addition of carbon nanoparticles to a polyimide membrane reduce plasticization?. <i>Separation and Purification Technology</i> , 2017, 183, 333-340.	3.9	6

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37	Hole Transporting Properties of Cyclic Pentamer of 4-Butyltriphenylamine. Chemistry Letters, 2017, 46, 1145-1147.	0.7	5
38	Cyclic Emitter with Tetraphenylsilane and Tetraphenylethene Units Exhibiting Tunable Color Emissions. Chemistry Letters, 2017, 46, 1546-1549.	0.7	1
39	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
40	Synthesis and properties of a new AIE macrocyclic emitter with triarylamine backbone. Tetrahedron Letters, 2017, 58, 3579-3582.	0.7	6
41	Incorporation of benzothiadiazole moiety at junction of polyfluorene-polytriarylamine block copolymer for effective color tuning in organic light emitting diode. Journal of Applied Polymer Science, 2017, 134, 45393.	1.3	6
42	Thermoelectric Properties of Poly(3-Hexylthiophene) Nanofiber Mat with a Large Void Fraction. Materials, 2017, 10, 468.	1.3	24
43	2.8 Fundamentals and Perspectives for Pervaporation. , 2017, , 191-225.		1
44	Development of Room Temperature Curable Natural Polyphenols-Based Hybrid Epoxy Polymers. Journal of Fiber Science and Technology, 2017, 73, 192-201.	0.2	2
45	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
46	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
47	Temperature Characteristic of pn Junction Diode Using Composite Film of Conductive Polymer Nanofibers. Kobunshi Ronbunshu, 2017, 74, 557-564.	0.2	0
48	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
49	Development of Hybrid Membranes for Carbon Capture. Kobunshi Ronbunshu, 2016, 73, 475-490.	0.2	5
50	Development of biobased microwave absorbing composites with various magnetic metals and carbons. Journal of Applied Polymer Science, 2016, 133, .	1.3	7
51	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
52	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
53	Synthesis and Characterization of Biobased Poly (Ether Benzoxazole) Derived from Vanillin. Journal of Fiber Science and Technology, 2016, 72, 89-95.	0.2	4
54	Radical Copolymerization of Ferulic Acid Derivatives with Ethylenic Monomers. Journal of Fiber Science and Technology, 2016, 72, 74-79.	0.2	7

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55	Development of a cashew nut shell liquid (CNSL)-based polymer for antibacterial activity. Journal of Applied Polymer Science, 2015, 132, .	1.3	26
56	Water permeability and competitive permeation with CO <sub>2</sub> and CH <sub>4</sub> in perfluorinated polymeric membranes. Separation and Purification Technology, 2015, 147, 203-209.	3.9	42
57	Enhancing gas permeability in mixed matrix membranes through tuning the nanoparticle properties. Journal of Membrane Science, 2015, 482, 49-55.	4.1	65
58	Tailoring Physical Aging in Super Glassy Polymers with Functionalized Porous Aromatic Frameworks for CO <sub>2</sub> Capture. Chemistry of Materials, 2015, 27, 4756-4762.	3.2	107
59	The impact of water vapor on CO <sub>2</sub> separation performance of mixed matrix membranes. Journal of Membrane Science, 2015, 492, 471-477.	4.1	29
60	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
61	Synthesis and characterization of ABA-type triblock copolymers derived from polyimide and poly(2-methyl-2-adamantyl methacrylate). Polymer International, 2014, 63, 1634-1642.	1.6	15
62	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
63	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
64	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
65	Development of bio-based hybrid resin, from natural lacquer. Progress in Organic Coatings, 2014, 77, 24-29.	1.9	22
66	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
67	Dependence of alcohol vapor-induced crystallization on gas and vapor permeabilities of poly(lactic acid) membranes. Journal of Membrane Science, 2014, 478, 1-6.	1.3	6
68	CO <sub>2</sub> 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
69	Gas permeation and separation properties of polyimide/ZSM-5 zeolite composite membranes containing liquid sulfolane. Journal of Applied Polymer Science, 2013, 128, 3814-3823.	1.3	27
70	Preparation and characterization of cardanol-based epoxy resin for coating at room temperature curing. Journal of Applied Polymer Science, 2013, 130, 2468-2478.	1.3	84
71	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
72	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

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73	Effect of substituted groups on characterization and water vapor sorption property of polyhedral oligomeric silsesquioxane (POSS)-containing methacryl polymer membranes. <i>Polymer</i> , 2013, 54, 2315-2323.	1.8	20
74	Effects of various liquid organic solvents on solvent-induced crystallization of amorphous poly(lactic acid) film. <i>Journal of Applied Polymer Science</i> , 2013, 129, 1607-1617.	1.3	153
75	Effect of OH group on the water vapor sorption property of adamantane-containing polymer membranes. <i>Journal of Membrane Science</i> , 2013, 427, 176-185.	4.1	20
76	Permeability of Dry Gases and Those Dissolved in Water through Hydrophobic High Free-Volume Silicon- or Fluorine-Containing Nonporous Glassy Polymer Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 1133-1140.	1.8	16
77	Synthesis, characterization, and CO <sub>2</sub> permeation properties of acetylene-terminated polyimide membranes. <i>Polymer Engineering and Science</i> , 2013, 53, 1667-1675.	1.5	7
78	Gas transport and optical properties of ABA-type triblock copolymers designed using fluorine-containing polyimide macroinitiators with methyl methacrylate. <i>Polymer International</i> , 2013, 62, 1377-1385.	1.6	9
79	Characterization and CO <sub>2</sub> sorption properties of poly[methacryloxypropylheptacyclopentylsilsesquioxane-co-methacryloxypropyltris(trimethylsiloxy)silane]. <i>Journal of Applied Polymer Science</i> , 2013, 129, 2036-2045.	1.3	4
80	Characterization and gas permeation properties of crosslinked diacetylene-containing polymer membranes from ferulic acid. <i>Journal of Applied Polymer Science</i> , 2013, 130, 277-286.	1.3	11
81	Effects of irradiation with vacuum ultraviolet xenon excimer lamp at 172nm on water vapor transport through poly(lactic acid) membranes. <i>Desalination</i> , 2012, 287, 290-300.	4.0	21
82	Microstructure and Gas Diffusivity of Poly(dimethylsiloxane) Dense Membrane Using Molecular Dynamics (MD) Simulation. <i>Transactions of the Materials Research Society of Japan</i> , 2012, 37, 439-442.	0.2	2
83	Membrane color and gas permeability of 6FDA-TPD polyimide membranes prepared with various membrane preparation protocols. <i>Polymer Engineering and Science</i> , 2011, 51, 2360-2369.	1.5	19
84	Relationship between the gas transport properties and the refractive index in high free volume fluorine-containing polyimide membranes. <i>Journal of Applied Polymer Science</i> , 2011, 121, 2794-2803.	1.3	21
85	Permeability, diffusivity, and solubility of benzene vapor and water vapor in high free volume silicon- or fluorine-containing polymer membranes. <i>Journal of Membrane Science</i> , 2010, 360, 352-362.	4.1	51
86	Analysis of permeability; solubility and diffusivity of carbon dioxide; oxygen; and nitrogen in crystalline and liquid crystalline polymers. <i>Journal of Membrane Science</i> , 2010, 365, 40-51.	4.1	106
87	Gas Transport Properties and Crystalline Structures of Poly(lactic acid) Membranes. <i>Transactions of the Materials Research Society of Japan</i> , 2010, 35, 241-246.	0.2	56
88	Effects of carbon dioxide-induced plasticization on the gas transport properties of glassy polyimide membranes. <i>Journal of Membrane Science</i> , 2007, 298, 147-155.	4.1	104
89	Nitrogen permeability and carbon dioxide solubility in poly(1-trimethylsilyl-1-propyne)-based binary substituted polyacetylene blends. <i>Journal of Membrane Science</i> , 2005, 251, 101-110.	4.1	36
90	Analysis of dual-mode model parameters for gas sorption in glassy polymers. <i>Journal of Membrane Science</i> , 2005, 253, 117-138.	4.1	220