

# Hidetoshi Matsumoto

## List of Publications by Year in descending order

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183  
papers

3,903  
citations

109264

35  
h-index

168321

53  
g-index

191  
all docs

191  
docs citations

191  
times ranked

4917  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionality in Electrospun Nanofibrous Membranes Based on Fiber's Size, Surface Area, and Molecular Orientation. <i>Membranes</i> , 2011, 1, 249-264.	1.4	168
2	Nanomaterial-Enhanced All-Solid Flexible Zinc-Carbon Batteries. <i>ACS Nano</i> , 2010, 4, 2730-2734.	7.3	148
3	Significant Improvement of Unipolar n-Type Transistor Performances by Manipulating the Coplanar Backbone Conformation of Electron-Deficient Polymers via Hydrogen Bonding. <i>Journal of the American Chemical Society</i> , 2019, 141, 3566-3575.	6.6	142
4	Control of diameter, morphology, and structure of PVDF nanofiber fabricated by electrospray deposition. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 779-786.	2.4	108
5	High-Performance Channel Organic Transistors Using High-Molecular-Weight Electron-Deficient Copolymers and Amine-Tailed Self-Assembled Monolayers. <i>Advanced Materials</i> , 2018, 30, e1707164.	11.1	97
6	Surface morphology and biological activity of protein thin films produced by electrospray deposition. <i>Journal of Colloid and Interface Science</i> , 2004, 269, 336-340.	5.0	88
7	Electrospun Composite Nanofiber Yarns Containing Oriented Graphene Nanoribbons. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6225-6231.	4.0	83
8	High performance ambipolar organic field-effect transistors based on indigo derivatives. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9311-9317.	2.7	80
9	Poly(ethylene oxide) thin films produced by electrospray deposition: morphology control and additive effects of alcohols on nanostructure. <i>Journal of Colloid and Interface Science</i> , 2004, 279, 484-492.	5.0	78
10	Photoelectrochemical cell using dye sensitized zinc oxide nanowires grown on carbon fibers. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	76
11	Rational Design of High-Mobility Semicrystalline Conjugated Polymers with Tunable Charge Polarity: Beyond Benzobisthiadiazole-Based Polymers. <i>Advanced Functional Materials</i> , 2017, 27, 1604608.	7.8	74
12	A Quaternary Poly(ethylene carbonate)-Lithium Bis(trifluoromethanesulfonyl)imide-Ionic Liquid-Silica Fiber Composite Polymer Electrolyte for Lithium Batteries. <i>Electrochimica Acta</i> , 2015, 175, 134-140.	2.6	73
13	Significant Difference in Semiconducting Properties of Isomeric All-Acceptor Polymers Synthesized via Direct Arylation Polycondensation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11893-11902.	7.2	68
14	Interaction of proteins with weak amphoteric charged membrane surfaces: effect of pH. <i>Journal of Colloid and Interface Science</i> , 2003, 264, 82-88.	5.0	59
15	Effect of Proton on Potassium Ion in Countertransport across Fine Porous Charged Membranes. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5011-5016.	1.2	56
16	Simulation study on the influence of an electric field on water evaporation. <i>Computational and Theoretical Chemistry</i> , 2009, 904, 83-90.	1.5	56
17	Facile fabrication of transparent and conductive nanowire networks by wet chemical etching with an electrospun nanofiber mask template. <i>Materials Letters</i> , 2014, 115, 187-189.	1.3	54
18	New Semiconducting Polymers Based on Benzobisthiadiazole Analogues: Tuning of Charge Polarity in Thin Film Transistors via Heteroatom Substitution. <i>Macromolecules</i> , 2015, 48, 4012-4023.	2.2	54

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19	Phenolic Resin-Based Carbon Thin Fibers Prepared by Electrospinning: Additive Effects of Poly(vinyl Tj ETQq1 1 0.784314 rgBTj/Overloc	1.3	53
20	Shape-memory properties of electrospun non-woven fabrics prepared from degradable polyesterurethanes containing poly(1%-pentadecalactone) hard segments. <i>European Polymer Journal</i> , 2012, 48, 1866-1874.	2.6	51
21	Formation of $\beta$ -Phase Crystalline Structure of PVDF Nanofiber by Electrospray Deposition: Additive Effect of Ionic Fluorinated Surfactant. <i>Polymer Journal</i> , 2007, 39, 670-674.	1.3	50
22	Preparation of ion-exchange fiber fabrics by electrospray deposition. <i>Journal of Colloid and Interface Science</i> , 2006, 293, 143-150.	5.0	49
23	D $\alpha$ 1 Backbone Strategy for Benzobisthiadiazole Based n-Channel Organic Transistors: Clarifying the Selenium Substitution Effect on the Molecular Packing and Charge Transport Properties in Electron Deficient Polymers. <i>Advanced Functional Materials</i> , 2017, 27, 1701486.	7.8	47
24	Molecularly Imprinted Nanofiber Membranes from Carboxylated Polysulfone by Electrospray Deposition. <i>Macromolecular Rapid Communications</i> , 2007, 28, 2100-2105.	2.0	45
25	Characterization of chitosan nanofiber fabric by electrospray deposition: Electrokinetic and adsorption behavior. <i>Journal of Colloid and Interface Science</i> , 2007, 310, 678-681.	5.0	45
26	Top-Down Process Based on Electrospinning, Twisting, and Heating for Producing One-Dimensional Carbon Nanotube Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 469-475.	4.0	45
27	Correlation of mobility and molecular packing in organic transistors based on cycloalkyl naphthalene diimides. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5395.	2.7	45
28	Tuning the Charge Carrier Polarity of Organic Transistors by Varying the Electron Affinity of the Flanked Units in Diketopyrrolopyrrole-Based Copolymers. <i>Advanced Functional Materials</i> , 2020, 30, 1907452.	7.8	45
29	Polyelectrolyte membranes based on hydrocarbon polymer containing fullerene. <i>Journal of Power Sources</i> , 2008, 176, 16-22.	4.0	43
30	An ultra-narrow bandgap derived from thienoisindigo polymers: structural influence on reducing the bandgap and self-organization. <i>Polymer Chemistry</i> , 2016, 7, 1181-1190.	1.9	42
31	Novel poly(ethylene glycol) derivatives with carboxylic acid pendant groups: synthesis and their protection and enhancing effect on non-viral gene transfection systems. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2003, 14, 515-531.	1.9	37
32	Preparation of Carbon Fiber Fabrics from Phenolic Resin by Electrospray Deposition. <i>Polymer Journal</i> , 2007, 39, 1128-1134.	1.3	37
33	Control over Internal Structure of Liquid Crystal Polymer Nanofibers by Electrospinning. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1641-1645.	2.0	36
34	Molecularly imprinted nanofiber membranes. <i>Current Opinion in Chemical Engineering</i> , 2011, 1, 18-26.	3.8	36
35	Design and structure-property relationship of benzothienoisindigo in organic field effect transistors. <i>RSC Advances</i> , 2015, 5, 61035-61043.	1.7	36
36	Preparation of Polysaccharide Nanofiber Fabrics by Electrospray Deposition: Additive Effects of Poly(ethylene oxide). <i>Polymer Journal</i> , 2005, 37, 391-398.	1.3	35

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37	Control over wettability of textured surfaces by electrospray deposition. <i>Journal of Applied Polymer Science</i> , 2007, 103, 3811-3817.	1.3	35
38	ZnO Nanowire and $\text{WS}_2$ Nanotube Electronics. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 2988-3000.	1.6	35
39	The impact of molecular planarity on electronic devices in thienoisindigo-based organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10455-10467.	2.7	35
40	Dual Imide-Functionalized Unit-Based Regioregular $\text{A}^1\text{A}^2$ Polymers for Efficient Unipolar n-Channel Organic Transistors and All-Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22583-22594.	4.0	35
41	Preparation of Porous PVDF Nanofiber from PVDF/PVP Blend by Electrospray Deposition. <i>Polymer Journal</i> , 2007, 39, 1060-1064.	1.3	33
42	Ambipolar organic transistors based on isoindigo derivatives. <i>Organic Electronics</i> , 2016, 35, 95-100.	1.4	33
43	An iodine effect in ambipolar organic field-effect transistors based on indigo derivatives. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8612-8617.	2.7	32
44	Fine structure of PVDF nanofiber fabricated by electrospray deposition. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 558-563.	2.4	31
45	Filling the Gaps between Graphene Oxide: A General Strategy toward Nanolayered Oxides. <i>Advanced Functional Materials</i> , 2015, 25, 5683-5690.	7.8	31
46	Water transport phenomena through membranes consisting of vertically-aligned double-walled carbon nanotube array. <i>Carbon</i> , 2017, 120, 358-365.	5.4	31
47	Structure-sound absorption property relationships of electrospun thin silica fiber sheets: Quantitative analysis based on acoustic models. <i>Applied Acoustics</i> , 2019, 152, 13-20.	1.7	31
48	Organic/inorganic hybrid nano-microstructured coatings on insulated substrates by electrospray deposition. <i>Journal of Colloid and Interface Science</i> , 2005, 286, 414-416.	5.0	30
49	Effect of ion-exchange nanofiber fabrics on water splitting in bipolar membrane. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 442-445.	5.0	29
50	Nanosize effects of sulfonated carbon nanofiber fabrics for high capacity ion-exchanger. <i>RSC Advances</i> , 2012, 2, 3109.	1.7	29
51	Membrane Potential across Low-Water-Content Charged Membranes: Effect of Ion Pairing. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14130-14136.	1.2	28
52	Preparation of PVDF/PMMA Blend Nanofibers by Electrospray Deposition: Effects of Blending Ratio and Humidity. <i>Polymer Journal</i> , 2009, 41, 402-406.	1.3	27
53	A highly conducting organic metal derived from an organic-transistor material: benzothenobenzothiophene. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17818.	1.3	27
54	Permeation of n-butane, 1-butene and 1,3-butadiene through anhydrous $\text{Ag}^+$ -doped perfluorocarbon-type ion-exchange membranes. <i>Polymer</i> , 1998, 39, 2315-2323.	1.8	26

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55	N-Unsubstituted thienoisindigos: preparation, molecular packing and ambipolar organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2509-2512.	2.7	25
56	Thiadiazole-fused Quinoxalineimide as an Electron-deficient Building Block for N-type Organic Semiconductors. <i>Organic Letters</i> , 2017, 19, 3275-3278.	2.4	25
57	Membrane potential across reverse osmosis membranes under pressure gradient. <i>Journal of Colloid and Interface Science</i> , 2007, 309, 272-278.	5.0	24
58	Enhancing the Effect of the Nanofiber Network Structure on Thermoresponsive Wettability Switching. <i>Langmuir</i> , 2011, 27, 14716-14720.	1.6	24
59	Ink Degradation and Its Effects on the Crack Formation of Fuel Cell Catalyst Layers. <i>Journal of the Electrochemical Society</i> , 2019, 166, F89-F92.	1.3	24
60	Nanofibers as novel platform for high-efficiency ion exchangers. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2791-2803.	1.6	23
61	Charge effectiveness of sulfonated polymer membranes under low-water-content condition. <i>Science and Technology of Advanced Materials</i> , 2004, 5, 461-468.	2.8	22
62	Structure changes during tensile deformation and mechanical properties of a twisted carbon nanotube yarn. <i>Carbon</i> , 2013, 60, 193-201.	5.4	22
63	Diketopyrrolopyrrole-thiophene-methoxythiophene based random copolymers for organic field effect transistor applications. <i>Organic Electronics</i> , 2020, 87, 105986.	1.4	22
64	Radical scavenging reaction kinetics with multiwalled carbon nanotubes. <i>Carbon</i> , 2015, 83, 232-239.	5.4	21
65	Manganese dioxide nanowires on carbon nanofiber frameworks for efficient electrochemical device electrodes. <i>RSC Advances</i> , 2017, 7, 12351-12358.	1.7	21
66	Diketopyrrolopyrrole-Based Dual-Acceptor Copolymers to Realize Tunable Charge Carrier Polarity of Organic Field-Effect Transistors and High-Performance Nonvolatile Ambipolar Flash Memories. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1609-1618.	2.0	21
67	Membrane Potentials across Cation-Exchange Membranes with a Low Water Content. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10506-10512.	1.2	19
68	Ionic Liquid-Based Electrolytes Containing Surface-Functionalized Inorganic Nanofibers for Quasisolid Lithium Batteries. <i>ACS Omega</i> , 2017, 2, 835-841.	1.6	19
69	Ionic Transport Behavior across Charged Membranes with Low Water Content. I. Theoretical Aspect of Membrane Potentials in Membranes Having Inhomogeneously Distributed Fixed-Charge Groups. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10615-10622.	1.2	18
70	Direct Observation and Quantitative Analysis of the Fiber Formation Process during Electrospinning by a High-Speed Camera. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 12122-12126.	1.8	18
71	High-Quality Nanofibrous Nonwoven Air Filters: Additive Effect of Water-Jet Nanofibrillated Celluloses on Their Performance. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2830-2838.	2.0	18
72	Mesoporous Hydrated Graphene Nanoribbon Electrodes for Efficient Supercapacitors: Effect of Nanoribbon Dispersion on Pore Structure. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 1268-1274.	2.0	18

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73	Transport and high-selectivity mechanisms of C 4 hydrocarbons through anhydrous Ag +-doped perfluorocarbon-type ion-exchange membranes. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 665.	1.7	16
74	Preparation and Characterization of Novel Weak Amphoteric Charged Membrane Containing Cysteine Residues. Journal of Colloid and Interface Science, 2001, 239, 467-474.	5.0	16
75	Temperature compensation of pressure-sensitive luminescent polymer sensors. Sensors and Actuators B: Chemical, 2018, 255, 1960-1966.	4.0	16
76	Polyelectrolyte Composite Membranes Containing Electrospun Ion-Exchange Nanofibers: Effect of Nanofiber Surface Charges on Ionic Transport. Langmuir, 2018, 34, 13035-13040.	1.6	16
77	Characterization of Insulin Adsorption Behavior on Amphoteric Charged Membranes. Polymer Journal, 2008, 40, 837-841.	1.3	14
78	Carbon nanotubes on carbon fabrics for flexible field emitter arrays. Applied Physics Letters, 2008, 93, 053107.	1.5	14
79	Inkjet Printing of Graphene Nanoribbons for Organic Field-Effect Transistors. Applied Physics Express, 2011, 4, 115101.	1.1	14
80	ROS evaluation for a series of CNTs and their derivatives using an ESR method with DMPO. Journal of Physics: Conference Series, 2013, 429, 012029.	0.3	14
81	Triggered Structural Control of Dynamic Covalent Aromatic Polyamides: Effects of Thermal Reorganization Behavior in Solution and Solid States. Macromolecules, 2016, 49, 2153-2161.	2.2	14
82	p- and n-Channel Photothermoelectric Conversion Based on Ultralong Near-Infrared Wavelengths Absorbing Polymers. ACS Applied Polymer Materials, 2019, 1, 542-551.	2.0	14
83	Characterization of Novel Weak Amphoteric Charged Membranes Using $\zeta$ -Potential Measurements: Effect of Dipolar Ion Structure. Langmuir, 2001, 17, 3375-3381.	1.6	13
84	Membrane potential across anion-exchange membranes in acidic solution system. Journal of Colloid and Interface Science, 2005, 286, 288-293.	5.0	13
85	PVDF/PMMA composite nanofiber fabricated by electrospray deposition: Crystallization of PVDF induced by solvent extraction of PMMA component. Journal of Applied Polymer Science, 2009, 112, 1868-1872.	1.3	13
86	Light scattering assisted surface plasmon resonance at electrospun nanofiber-coated gold surfaces. Applied Physics Letters, 2011, 98, 241109.	1.5	13
87	Ion-conductive and mechanical properties of polyether/silica thin fiber composite electrolytes. Reactive and Functional Polymers, 2014, 81, 40-44.	2.0	13
88	ESA-CF Synthesis of Linear and Cyclic Polymers Having Densely Appended Perylene Units and Topology Effects on Their Thin-Film Electron Mobility. Macromolecules, 2016, 49, 5831-5840.	2.2	13
89	Development of Fiber and Textile-Shaped Organic Solar Cells for Smart Textiles. Journal of Fiber Science and Technology, 2017, 73, 336-342.	0.2	13
90	Wettability of Al<sub>2</sub>O<sub>3</sub> by Liquid Cu as Influenced by Additives and Partial Transient Liquid-Phase Bonding of Al<sub>2</sub>O<sub>3</sub>. Materials Transactions, JIM, 1995, 36, 555-564.	0.9	12

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91	Interaction of Organic Molecules with Weak Amphoteric Charged Membrane Surfaces: Effect of Interfacial Charge Structure. <i>Langmuir</i> , 2002, 18, 3698-3703.	1.6	12
92	Membrane potentials across nanofiltration membranes: effect of nanoscaled cavity structure. <i>Journal of Molecular Structure</i> , 2005, 739, 99-104.	1.8	12
93	Composite poly(ethylene carbonate) electrolytes with electrospun silica nanofibers. <i>Polymers for Advanced Technologies</i> , 2018, 29, 820-824.	1.6	12
94	Improvement in semipermeable membrane performance of wholly aromatic polyamide through an additive processing strategy. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1275-1281.	2.5	11
95	Semipermeable membranes based on polybenzimidazole: Simultaneous improvement in water flux and salt rejection by facile cross-linking. <i>Desalination</i> , 2016, 395, 1-7.	4.0	11
96	Ambipolar organic field-effect transistors based on N-Unsubstituted thienoisindigo derivatives. <i>Dyes and Pigments</i> , 2020, 180, 108418.	2.0	11
97	Absence of HOMO/LUMO Transition in Charge-Transfer Complexes of Thienoacenes. <i>Journal of Physical Chemistry A</i> , 2021, 125, 146-153.	1.1	11
98	Improved stability of organic field-effect transistor performance in oligothiophenes including $\beta$ -isomers. <i>Tetrahedron</i> , 2012, 68, 2790-2798.	1.0	10
99	Influence of structure-property relationships of two structural isomers of thiophene-flanked diazaisindigo on carrier-transport properties. <i>RSC Advances</i> , 2016, 6, 109434-109441.	1.7	10
100	Tuning Backbone Planarity in Thiadiazolobenzotriazole-Bis(thienothiophenyl)ethylene Copolymers for Organic Field-Effect Transistors. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2302-2312.	2.0	10
101	Control over Color of Nanotextured Coatings by Electrospray Deposition. <i>Journal of Fiber Science and Technology</i> , 2008, 64, 1-4.	0.0	10
102	Synthesis and characterization of carbon nanotube grown on flexible and conducting carbon fiber sheet for field emitter. <i>Diamond and Related Materials</i> , 2009, 18, 341-344.	1.8	9
103	Preparation of poly( $\beta$ -benzyl-L-glutamate) nanofibers by electrospinning from isotropic and biphasic liquid crystal solutions. <i>Polymer Journal</i> , 2012, 44, 360-365.	1.3	9
104	Differentiation of chemical reaction activity of various carbon nanotubes using redox potential: Classification by physical and chemical structures. <i>Carbon</i> , 2015, 95, 302-308.	5.4	8
105	High-performance structure of a coil-shaped soft-actuator consisting of polymer threads and carbon nanotube yarns. <i>AIP Advances</i> , 2018, 8, .	0.6	8
106	n-Type Organic Field-Effect Transistors Based on Bisthienoisatin Derivatives. <i>ACS Applied Electronic Materials</i> , 2019, 1, 764-771.	2.0	8
107	Preparation of Perfluorosulfonated Ionomer Nanofibers by Solution Blow Spinning. <i>Membranes</i> , 2021, 11, 389.	1.4	8
108	Shift of ??? transformation temperature of cobalt with thermal cycling. <i>Journal of Materials Science Letters</i> , 1993, 12, 969-970.	0.5	7

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109	Significant Difference in Semiconducting Properties of Isomeric All- <i>o</i> -Acceptor Polymers Synthesized via Direct Arylation Polycondensation. <i>Angewandte Chemie</i> , 2019, 131, 12019-12028.	1.6	7
110	Assembly of reduced graphene oxides into a three-dimensional porous structure <i>via</i> confinement within robust cellulose oligomer networks. <i>RSC Advances</i> , 2019, 9, 38848-38854.	1.7	7
111	De Novo Ion-Exchange Membranes Based on Nanofibers. <i>Membranes</i> , 2021, 11, 652.	1.4	7
112	Ambipolar Organic Field-Effect Transistors Based on Indigo Derivatives. <i>Engineering Journal</i> , 2015, 19, 61-74.	0.5	7
113	Intermediate phase on rapidly quenched Ni <sub>49</sub> Ti <sub>50</sub> Al <sub>1</sub> . <i>Journal of Materials Science Letters</i> , 1999, 18, 1853-1854.	0.5	6
114	Synthesis of transparent and thermally stable polycyanurates and their thermal rearrangement. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3950-3955.	2.5	6
115	Enhancing water flux through semipermeable polybenzimidazole membranes by adding surfactant-treated CNTs. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45875.	1.3	6
116	Temperature dependence of pressure-driven water permeation through membranes consisting of vertically-aligned double-walled carbon nanotube arrays. <i>Carbon</i> , 2019, 146, 785-788.	5.4	6
117	Fabrication Technology of Nanofiber by Electro Spray Deposition. <i>Kobunshi</i> , 2003, 52, 829-832.	0.0	5
118	Phase transformation behavior of Ti-rich NiTi alloy by a calorimetric method. <i>Journal of Materials Science</i> , 2004, 39, 4391-4392.	1.7	5
119	Insulin transport across porous charged membranes: Effect of the electrostatic interaction. <i>Biotechnology Progress</i> , 2009, 25, 1379-1386.	1.3	5
120	Solution-Processed Nanowire Coating for Light Management in Organic Solar Cells. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-7.	1.5	5
121	Effect of primary structure on permselectivity of ultrathin semipermeable polybenzimidazole membrane. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	5
122	Quinoxalineimide as a Novel Electron-accepting Building Block for Organic Optoelectronics. <i>Chemistry Letters</i> , 2015, 44, 1128-1130.	0.7	5
123	Simulation Study on Optical Absorption Property of Fiber- and Fabric-Shaped Organic Thin-Film Solar Cells with Resin Sealing Layer. <i>Journal of Fiber Science and Technology</i> , 2015, 71, 121-126.	0.0	5
124	Optical Waveguide Biosensors for Highly Sensitive and High-Throughput Applications. <i>MRS Advances</i> , 2016, 1, 755-760.	0.5	5
125	Organic Transistors: D-A1-D-A2 Backbone Strategy for Benzobisthiadiazole Based n-Channel Organic Transistors: Clarifying the Selenium-Substitution Effect on the Molecular Packing and Charge		



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127	Effect of hydrogen-deuterium exchange in amide linkages on properties of electrospun polyamide nanofibers. <i>Polymer</i> , 2021, 229, 123994.	1.8	5
128	Insulin adsorption into porous charged membranes: Effect of the electrostatic interaction. <i>Biotechnology Progress</i> , 2009, 25, 1115-1121.	1.3	4
129	Highly Sensitive Local Surface Plasmon Resonance in Anisotropic Au Nanoparticles Deposited on Nanofibers. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-8.	1.5	4
130	Cross-Linking of Poly(arylenebutadiynylene)s and Its Effect on Charge Carrier Mobilities in Thin-Film Transistors. <i>Macromolecules</i> , 2021, 54, 4351-4362.	2.2	4
131	Reaction Products Affecting the PEFC Catalyst Ink Property. <i>Journal of the Electrochemical Society</i> , 0, , .	1.3	4
132	Effect of Fixed Charge Groups and Counter Ions on the Transport Phenomena of Paraffin and Olefin across Anhydrous Negatively Charged Membranes. <i>Journal of Colloid and Interface Science</i> , 1998, 208, 310-318.	5.0	3
133	Pore-surface characterization of amphoteric charged membranes by means of zeta potential measurements. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 222, 165-173.	2.3	3
134	Electrospun Nanofiber Networks for Electronics and Optics. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1240, 1.	0.1	3
135	Development of $\beta^2$ -linked quaterthiophene and tetrathiafulvalene dimers as new organic semiconductors. <i>Physica B: Condensed Matter</i> , 2010, 405, S373-S377.	1.3	3
136	Preparation of Perfluorosulfonate Ionomeric Hollow Thin Fibers by Two-Fluid Electrospinning. <i>Kobunshi Ronbunshu</i> , 2014, 71, 319-324.	0.2	3
137	Design of Fullerene-Free Electron-Acceptor Materials Containing Peryleneimide Units for Solution-Processed Organic Electronic Devices. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 1083-1093.	2.0	3
138	Nanostructural Evolution during Catalyst Layer Formation Studied via Cryo-Electron Microscopy. <i>ECS Transactions</i> , 2017, 80, 253-258.	0.3	3
139	Time-Resolved Nanostructural Analysis of Catalyst Layer Formation Process by Synchrotron X-ray Scattering. <i>ECS Transactions</i> , 2017, 80, 269-273.	0.3	3
140	Investigation of Drying Process of Catalyst Ink for Polymer Electrolyte Fuel Cells by Grazing-Incidence X-Ray Scattering. <i>ECS Transactions</i> , 2018, 86, 157-161.	0.3	3
141	Bulky Phenylalkyl Substitutions to Bisthienoisatins and Thienoisindigos. <i>Crystal Growth and Design</i> , 2020, 20, 3293-3303.	1.4	3
142	Persistent Water Repellency of Syndiotactic Polymethylene with Perfluoroethyl Hexyloxycarbonyl Side Chains. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100311.	2.0	3
143	[2+2] Cycloaddition-retroelectrocyclization reactivity and thin film transistor performances of carbazole-based platinum polyynes polymers. <i>Materials Chemistry and Physics</i> , 2022, 281, 125861.	2.0	3
144	Antimicrobial Activity of Ultra-fine Fiber Nonwoven Fabrics Produced by Electrospinning. <i>Seikei-Kakou</i> , 2009, 21, 287-290.	0.0	2

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145	Effect of <i>N</i> -methyl amide linkage on hydrogen bonding behavior and water transport properties of partially <i>N</i> -methylated random aromatic copolyamides. <i>Journal of Polymer Science Part A</i> , 2014, 52, n/a-n/a.	2.5	2
146	Synthesis of Fullerene Polymers and Preparation of Electrospun Microfibers Thereof. <i>Kobunshi Ronbunshu</i> , 2016, 73, 258-261.	0.2	2
147	Zero percolation threshold in electric conductivity of aluminum nanowire network fabricated by chemical etching using an electrospun nanofiber mask. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 095002.	0.8	2
148	Large-area, transferable sub-10 nm polymer membranes at the air-water interface. <i>Nano Research</i> , 2018, 11, 3833-3843.	5.8	2
149	Structure-Property Relationships of Random Aromatic Copolyamide Membranes by the Partial <i>N</i> -Methylation of Amide Linkages. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700522.	1.1	2
150	Ink Degradation Phenomena and Its Impact on Crack Formation of Fuel Cell Catalyst. <i>ECS Transactions</i> , 2018, 86, 151-156.	0.3	2
151	Organic Liquid Impregnation Behavior into Nanofibrous Membranes: Quantitative Analysis of the Effects of Structural Parameters. <i>ACS Omega</i> , 2019, 4, 15856-15861.	1.6	2
152	Quinoidal bithienoisatin based semiconductors: Synthesis, characterization, and carrier transport property. <i>Nano Select</i> , 2020, 1, 334-345.	1.9	2
153	Microstructure Investigation of Polymer Electrolyte Fuel Cell Catalyst Layers Containing Perfluorosulfonated Ionomer. <i>Membranes</i> , 2021, 11, 466.	1.4	2
154	Effect of Reaction Products on the PEFC Catalyst Ink Property and Catalyst Layer Quality. <i>ECS Transactions</i> , 2020, 98, 61-65.	0.3	2
155	Partial oxidation of methane to methanol in a newly developed selective discharge plasma reactor. , 0, , ,		1
156	Nanofibrous Membranes - Preparation and Application of Electrospun Membranes -. <i>Membrane</i> , 2010, 35, 113-118.	0.0	1
157	Optical Nanofibers. , 2013, , 1-4.		1
158	Electrochemical Properties of Sulfonated Syndiotactic Polystyrene Membranes. <i>Kobunshi Ronbunshu</i> , 2013, 70, 102-107.	0.2	1
159	Enhancement of Salt Rejection and Water Flux by Crosslinking-Induced Microstructure Change of <i>N</i> -substituted Polybenzimidazole Membranes. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1745, 16.	0.1	1
160	Internal Structure of Hydroxypropyl Cellulose Nanofibers Prepared by Electrospinning from Different Phases of Aqueous Solutions. <i>Kobunshi Ronbunshu</i> , 2016, 73, 354-360.	0.2	1
161	Time-Resolved Nanostructural Analysis of Thin-Film Formation Process from Nafion Solution by Synchrotron X-Ray Scattering. <i>ECS Transactions</i> , 2016, 75, 637-642.	0.3	1
162	Uniaxial alignment of nematic liquid crystals filling vacant spaces in surface-treated nanofibre nonwoven. <i>Liquid Crystals</i> , 2019, 46, 1241-1245.	0.9	1

#	ARTICLE	IF	CITATIONS
163	Low-temperature graphitization of poly(acrylonitrile) densely grafted onto a silica core surface. <i>Polymer</i> , 2021, 225, 123768.	1.8	1
164	Investigation of Drying Process of Catalyst Ink for Polymer Electrolyte Fuel Cells By Grazing-Incidence X-Ray Scattering. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	1
165	Forefront of Nanofibers: High Strength Fibers and Optoelectronic Applications. , 2016, , 313-323.		1
166	Morphology and Activity of Biological Fabrics Prepared by Electro spray Deposition Method. <i>ACS Symposium Series</i> , 2006, , 343-352.	0.5	0
167	Efficient Carbon Nanotube Field Emitter using Electro spun Carbon Nanofibers as a Flexible Electrode. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1173, 7.	0.1	0
168	Bioinspired Microenvironments: Rational Design of High-Mobility Semicrystalline Conjugated Polymers with Tunable Charge Polarity: Beyond Benzobisthiadiazole-Based Polymers ( <i>Adv. Funct. Tj ETQqO O O rgBT.# Overlock 10 Tf 50</i> )		
169	Emerging Functions of Porous Separation Membranes Based on Nanofibers and Nanomaterials. <i>Membrane</i> , 2021, 46, 215-219.	0.0	0
170	Updating Online Meeting i1/2zToward the 2021 Annual Meeting. <i>Journal of Fiber Science and Technology</i> , 2021, 77, P-149-P-149.	0.0	0
171	Tension Sensor Based on Fluorescence Resonance Energy Transfer Reveals Fiber Diameter-Dependent Mechanical Factors During Myelination. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 685044.	1.8	0
172	Current Status and Future Prospects on Nanofibers' Technology Development. <i>Seikei-Kakou</i> , 2012, 24, 121-126.	0.0	0
173	Observation and Analysis of Nafion Solution By Frozen TEM Technology. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
174	The Origin of Low-Energy Gap Derived from Thienoisindigo-Based Polymers. <i>Journal of Fiber Science and Technology</i> , 2016, 72, P-337-P-338.	0.0	0
175	Time-Resolved Nanostructural Analysis of Thin-Film Formation Process from Nafion Solution by Synchrotron X-Ray Scattering. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
176	Time-Resolved Nanostructural Analysis of Catalyst Layer Formation Process by Synchrotron X-ray Scattering. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
177	Nanostructural Evolution during Catalyst Layer Formation Studied via Cryo-Electron Microscopy. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
178	Endeavors towards Function Exploration of Nanofibrous Materials. <i>Journal of Fiber Science and Technology</i> , 2018, 74, P-39-P-43.	0.0	0
179	Ink Degradation Phenomena and Its Impact on Crack Formation of Fuel Cell Catalyst. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
180	Trial Manufacture of Nanofibers Made from a Main-Chain Liquid-Crystalline Elastomer Composed of Bibenzoate Mesogens. <i>Journal of Fiber Science and Technology</i> , 2018, 74, 89-94.	0.2	0

#	ARTICLE	IF	CITATIONS
181	Alteration and degradation reaction in fuel cell catalyst ink fabrication. The Proceedings of the Thermal Engineering Conference, 2019, 2019, 0162.	0.0	0
182	Direct Laser Writing of Graphene Nanoribbon Thin Films for Supercapacitor Electrodes. Electrochemistry, 2020, 88, 413-417.	0.6	0
183	Effect of Reaction Products on the PEFC Catalyst Ink Property and Catalyst Layer Quality. ECS Meeting Abstracts, 2020, MA2020-02, 2137-2137.	0.0	0