

Takashi Miyata

List of Publications by Year in descending order

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66
papers

3,730
citations

218677

26
h-index

128289

60
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67
all docs

67
docs citations

67
times ranked

3690
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoresponsive Polymer Films with Directly Micropatternable Surfaces Based on the Change in Free Volume by Photo-Crosslinking. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	3
2	Photoresponsive behaviour of zwitterionic polymer particles with photodimerizable groups on their surfaces. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2637-2648.	5.8	11
3	Photoresponsive Gelation of Four-Armed Poly(ethylene glycol) with Photodimerizable Groups. <i>Gels</i> , 2022, 8, 183.	4.5	4
4	Photoresponsive Polymer Films with Directly Micropatternable Surfaces Based on the Change in Free Volume by Photo-Crosslinking (Adv. Mater. Interfaces 9/2022). <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	0
5	Design of molecularly imprinted hydrogels with thermoresponsive drug binding sites. <i>Journal of Materials Chemistry B</i> , 2022, 10, 6644-6654.	5.8	6
6	Core-shell microgels having zwitterionic hydrogel core and temperature-responsive shell prepared via inverse miniemulsion RAFT polymerization. <i>Polymer Chemistry</i> , 2022, 13, 3489-3497.	3.9	3
7	Amphiphilic Liquid Crystalline Polymer Micelles That Exhibit a Phase Transition at Body Temperature. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 31513-31524.	8.0	5
8	Self-Healing Lamellar Silsesquioxane Thin Films. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4118-4126.	4.4	6
9	Weakly Acidic pH and Reduction Dual Stimuli-Responsive Gel Particles. <i>Langmuir</i> , 2021, 37, 11484-11492.	3.5	5
10	Reductively Responsive Gel Capsules Prepared Using a Water-Soluble Zwitterionic Block Copolymer Emulsifier. <i>Langmuir</i> , 2019, 35, 1413-1420.	3.5	10
11	Preparation of molecularly imprinted hydrogel layer SPR sensor chips with lectin-recognition sites via SI-ATRP. <i>Polymer Journal</i> , 2018, 50, 261-269.	2.7	7
12	Thermo-responsive gels that absorb moisture and ooze water. <i>Nature Communications</i> , 2018, 9, 2315.	12.8	197
13	Conformationally Regulated Molecular Binding and Release of Molecularly Imprinted Polypeptide Hydrogels That Undergo Helix-Coil Transition. <i>Macromolecules</i> , 2017, 50, 2136-2144.	4.8	29
14	Biomolecularly stimuli-responsive tetra-poly(ethylene glycol) that undergoes sol-gel transition in response to a target biomolecule. <i>Polymer Chemistry</i> , 2017, 8, 6378-6385.	3.9	20
15	Mechanical and responsive properties of temperature-responsive gels prepared via atom transfer radical polymerization. <i>Polymer Chemistry</i> , 2017, 8, 6050-6057.	3.9	23
16	QCM sensing of bisphenol A using molecularly imprinted hydrogel/conducting polymer matrix. <i>Polymer Journal</i> , 2016, 48, 525-532.	2.7	41
17	Designs of Stimuli-responsive Gels Using Dynamic Crosslinks and Their Applications. <i>Membrane</i> , 2016, 41, 226-232.	0.0	0
18	Pervaporative dehydration characteristics of an ethanol/water azeotrope through various chitosan membranes. <i>Carbohydrate Polymers</i> , 2015, 120, 1-6.	10.2	42

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19	Dehydration of an ethanol/water azeotrope through alginate-DNA membranes cross-linked with metal ions by pervaporation. <i>Carbohydrate Polymers</i> , 2015, 134, 38-45.	10.2	23
20	Photoinduced Bending of Self-Assembled Azobenzene-Siloxane Hybrid. <i>Journal of the American Chemical Society</i> , 2015, 137, 15434-15440.	13.7	99
21	Design of molecule-responsive organic-inorganic hybrid nanoparticles bearing cyclodextrin as ligands. <i>Polymer Journal</i> , 2015, 47, 206-211.	2.7	9
22	Synthesis of novel nucleobase-terminated organosilane and its self-assembly on a substrate. <i>Polymer Journal</i> , 2012, 44, 625-631.	2.7	2
23	Synthesis of glucose-responsive bioconjugated gel particles using surfactant-free emulsion polymerization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 99, 74-81.	5.0	36
24	Responsive behavior of tumor marker-imprinted hydrogels using macromolecular crosslinkers. <i>Journal of Molecular Recognition</i> , 2012, 25, 336-343.	2.1	36
25	Preparation of smart soft materials using molecular complexes. <i>Polymer Journal</i> , 2010, 42, 277-289.	2.7	65
26	Controlled permeation of model drugs through a bioconjugated membrane with antigen-antibody complexes as reversible crosslinks. <i>Polymer Journal</i> , 2010, 42, 834-837.	2.7	19
27	Structural design of stimuli-responsive bioconjugated hydrogels that respond to a target antigen. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 2144-2157.	2.1	65
28	Water/Ethanol Selectivity of New Organic-Inorganic Hybrid Membranes Fabricated from Poly(vinyl) Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50	2.2	21
29	Rapid response of a poly(acrylamide) hydrogel having a semi-interpenetrating polymer network structure. <i>Polymers for Advanced Technologies</i> , 2006, 17, 794-797.	3.2	17
30	Pervaporation properties of crosslinked poly(dimethylsiloxane) membranes for the removal of hydrocarbons from water. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 2079-2090.	2.1	7
31	Fluorescence resonance energy transfer by quencher adsorption into hydrogels containing fluorophores. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 3245-3252.	2.1	2
32	Tumor marker-responsive behavior of gels prepared by biomolecular imprinting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1190-1193.	7.1	210
33	Development of Smart Materials That Respond to Specific Molecules. <i>Membrane</i> , 2005, 30, 138-146.	0.0	0
34	Organic-Inorganic Hybrid Membranes for Removal of Benzene from an Aqueous Solution by Pervaporation. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 473-483.	2.2	21
35	Permeation and Separation Characteristics of a Mixture of Benzene/Cyclohexane through Cellulose Alkyl Ester Membranes during Pervaporation. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 642-648.	2.2	4
36	Structural Design of P(BMA-co-VTES)/TEOS Hybrid Membranes for Removal of Benzene from Water by Pervaporation. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1638-1647.	2.2	15

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37	Selective Removal of Dilute Benzene from Water by Various Cross-Linked Poly(dimethylsiloxane) Membranes Containing tert-Butylcalix[4]arene. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 2521-2529.	2.2	12
38	Pervaporation Characteristics of Organic-Inorganic Hybrid Membranes Composed of Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 38, 8440-8446.	4.8	86
39	Improvement of Selectivities of Microphase-Separated Membranes for the Removal of Volatile Organic Compounds. <i>ACS Symposium Series</i> , 2004, , 411-426.	0.5	1
40	Effects of Morphology of Multicomponent Polymer Membranes Containing Calixarene on Permselective Removal of Benzene from a Dilute Aqueous Solution of Benzene. <i>Macromolecules</i> , 2003, 36, 2041-2048.	4.8	35
41	Biomolecule-sensitive hydrogels. <i>Advanced Drug Delivery Reviews</i> , 2002, 54, 79-98.	13.7	691
42	Evaporation characteristics of cross-linked quaternized chitosan membranes for the separation of an ethanol/water azeotrope. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 1162.	2.2	42
43	Surface Modification of Microphase-Separated Membranes by Fluorine-Containing Polymer Additive and Removal of Dilute Benzene in Water through These Membranes. <i>Macromolecules</i> , 2001, 34, 8026-8033.	4.8	44
44	Relationship between fractal microphase separation and permselectivity of block copolymer membranes containing poly(dimethylsiloxane). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 584-589.	2.1	17
45	A reversibly antigen-responsive hydrogel. <i>Nature</i> , 1999, 399, 766-769.	27.8	1,108
46	Title is missing!. <i>Cellulose</i> , 1999, 6, 221-231.	4.9	13
47	Pervaporation characteristics of methyl methacrylate-methacrylic acid copolymer membranes ionically crosslinked with metal ions for a benzene/cyclohexane mixture. <i>Journal of Applied Polymer Science</i> , 1999, 71, 233-241.	2.6	45
48	Two types of fractal dimensions for phase separation in multicomponent polymer membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 1545-1550.	2.1	21
49	Pervaporation characteristics for benzene/cyclohexane mixtures through benzoylcellulose membranes. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 1985-1990.	2.2	9
50	Preparation of an Antigen-Sensitive Hydrogel Using Antigen-Antibody Bindings. <i>Macromolecules</i> , 1999, 32, 2082-2084.	4.8	169
51	Two types of fractal dimensions for phase separation in multicomponent polymer membranes. , 1999, 37, 1545.		1
52	Pervaporation characteristics of a benzoylchitosan membrane for benzene-cyclohexane mixtures. <i>Macromolecular Chemistry and Physics</i> , 1998, 199, 49-54.	2.2	34
53	Permeation and separation of binary organic mixtures through a liquid-crystalline polymer membrane. <i>Macromolecular Chemistry and Physics</i> , 1998, 199, 589-595.	2.2	13
54	Pervaporation characteristics of a benzoylchitosan membrane for benzene-cyclohexane mixtures. , 1998, 199, 49.		1

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55	Pervaporation characteristics of a benzoylchitosan membrane for benzene-cyclohexane mixtures. <i>Macromolecular Chemistry and Physics</i> , 1998, 199, 49-54.	2.2	1
56	Ethanol Permselectivity of Poly(dimethylsiloxane) Membranes Controlled by Simple Surface Modifications Using Polymer Additives. <i>Macromolecules</i> , 1997, 30, 5563-5565.	4.8	45
57	Characteristics of permeation and separation of dimethyl acrylamide-methyl methacrylate random and graft copolymer membranes for a benzene/cyclohexane mixture. <i>Polymer Bulletin</i> , 1997, 39, 733-740.	3.3	7
58	Microphase Separation in Graft Copolymer Membranes with Pendant Oligodimethylsiloxanes and Their Permselectivity for Aqueous Ethanol Solutions. <i>Macromolecules</i> , 1996, 29, 7787-7794.	4.8	45
59	Characteristics of permeation and separation of xylene isomers through poly(vinyl alcohol) membranes containing cyclodextrin. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 2909-2921.	2.2	27
60	Preparation of polydimethylsiloxane/polystyrene interpenetrating polymer network membranes and permeation of aqueous ethanol solutions through the membranes by pervaporation. <i>Journal of Applied Polymer Science</i> , 1996, 61, 1315-1324.	2.6	64
61	Permeation and separation of organic liquid mixtures through liquid-crystalline polymer networks. <i>Angewandte Makromolekulare Chemie</i> , 1996, 240, 241-250.	0.2	20
62	pH-controlled uphill transport of ammonium ions through polymer membranes with sulfonic acid groups. <i>Angewandte Makromolekulare Chemie</i> , 1996, 240, 251-261.	0.2	3
63	Preparation of polydimethylsiloxane/polystyrene interpenetrating polymer network membranes and permeation of aqueous ethanol solutions through the membranes by pervaporation. , 1996, 61, 1315.		1
64	Characteristics of permeation and separation for aqueous ethanol solutions through methyl methacrylate-dimethylsiloxane graft copolymer membranes. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 1211-1220.	2.2	39
65	Characteristics of permeation and separation for propanol isomers through poly(vinyl alcohol) membranes containing cyclodextrin. <i>Journal of Applied Polymer Science</i> , 1994, 51, 2007-2014.	2.6	44
66	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1993, 194, 927-939.	1.1	29