Kyoichi Saito

List of Publications by Year
in descending order

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224	5,191	61857	128067
papers	citations	43 h-index	60 g-index

225	225	225	2505
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aquaculture of Uranium in Seawater by a Fabric-Adsorbent Submerged System. Nuclear Technology, 2003, 144, 274-278.	0.7	151
2	Adsorption characteristics of an immobilized metal affinity membrane. Biotechnology Progress, 1991, 7, 412-418.	1.3	145
3	Protein binding to polymer brush, based on ion-exchange, hydrophobic, and affinity interactions. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 790, 131-142.	1.2	128
4	High-throughput processing of proteins using a porous and tentacle anion-exchange membrane. Journal of Chromatography A, 1995, 689, 211-218.	1.8	123
5	Adsorption and elution of bovine Î³-globulin using an affinity membrane containing hydrophobic amino acids as ligands. Journal of Chromatography A, 1991, 585, 45-51.	1.8	111
6	Protein adsorption capacity of a porous phenylalanine-containing membrane based on a polyethylene matrix. Journal of Chromatography A, 1991, 586, 27-33.	1.8	99
7	Preparation of hydrophilic amidoxime fibers by cografting acrylonitrile and methacrylic acid from an optimized monomer composition. Radiation Physics and Chemistry, 2000, 59, 405-411.	1.4	97
8	Introduction of a high-density chelating group into a porous membrane without lowering the flux. Industrial & Engineering Chemistry Research, 1991, 30, 2234-2237.	1.8	89
9	Recovery of uranium from seawater using amidoxime hollow fibers. AICHE Journal, 1988, 34, 411-416.	1.8	88
10	Binding of lysozyme onto a cation-exchange microporous membrane containing tentacle-type grafted polymer branches. Biotechnology Progress, 1994, 10, 76-81.	1.3	82
11	Fractional Elution and Determination of Uranium and Vanadium Adsorbed on Amidoxime Fiber from Seawater.. Analytical Sciences, 2000, 16, 429-432.	0.8	82
12	Comparison of Amidoxime Adsorbents Prepared by Cografting Methacrylic Acid and 2-Hydroxyethyl Methacrylate with Acrylonitrile onto Polyethylene. Industrial & Engineering Chemistry Research, 2000, 39, 2910-2915.	1.8	81
13	Bacterial Production of Pinene by a Laboratory-Evolved Pinene-Synthase. ACS Synthetic Biology, 2016, 5, 1011-1020.	1.9	79
14	Metal collection using chelating hollow fiber membrane. Journal of Membrane Science, 1991, 58, 221-234.	4.1	77
15	Water flux and protein adsorption of a hollow fiber modified with hydroxyl groups. Journal of Membrane Science, 1991, 56, 289-302.	4.1	75
16	Effect of seawater temperature on uranium recovery from seawater using amidoxime adsorbents. Industrial & Engineering Chemistry Research, 1994, 33, 662-666.	1.8	65
17	Removal of Boron Using Nylon-Based Chelating Fibers. Industrial & Engineering Chemistry Research, 2011, 50, 5727-5732.	1.8	62
18	Porous amidoxime-group-containing membrane for the recovery of uranium from seawater. Industrial & Engineering Chemistry Research, 1987, 26, 1977-1981.	1.8	61

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19	Ion exchange of lysozyme during permeation across a microporous sulfopropyl-group-containing hollow fiber. Biotechnology Progress, 1993, 9, 193-198.	1.3	61
20	A highly selective biosynthetic pathway to non-natural C50 carotenoids assembled from moderately selective enzymes. Nature Communications, 2015, 6, 7534.	5.8	61
21	Phosphorylated hollow fibers synthesized by radiation grafting and cross-linking. Journal of Membrane Science, 1989, 43, 131-141.	4.1	59
22	Ring-opening reaction of poly-GMA chain grafted onto a porous membrane. Journal of Membrane Science, 1996, 117, 33-38.	4.1	59
23	Production of squalene by squalene synthases and their truncated mutants in Escherichia coli. Journal of Bioscience and Bioengineering, 2015, 119, 165-171.	1.1	59
24	Water/acetone permeability of porous hollow-fiber membrane containing diethylamino groups on the grafted polymer branches.. Journal of Membrane Science, 1992, 71, 1-12.	4.1	58
25	Protein adsorption characteristics of porous and tentacle anion-exchange membrane prepared by radiation-induced graft polymerization. Radiation Physics and Chemistry, 1995, 46, 239-245.	1.4	58
26	Chiral separation of dl-tryptophan using porous membranes containing multilayered bovine serum albumin crosslinked with glutaraldehyde. Journal of Chromatography A, 1998, 822, 53-58.	1.8	57
27	Adsorption and elution in hollow-fiber-packed bed for recovery of uranium from seawater. Industrial & Engineering Chemistry Research, 1991, 30, 185-190.	1.8	56
28	Novel Ionâ€Exchange Membranes for Electrodialysis Prepared by Radiationâ€Induced Graft Polymerization. Journal of the Electrochemical Society, 1995, 142, 3659-3663.	1.3	55
29	Reduction of nonselective adsorption of proteins by hydrophilization of microfiltration membranes by radiation-induced grafting. Biotechnology Progress, 1994, 10, 114-120.	1.3	54
30	Removal of Cesium Using Cobalt-Ferrocyanide-Impregnated Polymer-Chain-Grafted Fibers. Journal of Nuclear Science and Technology, 2011, 48, 1281-1284.	0.7	54
31	Sorption kinetics of cobalt in chelating porous membrane. Industrial & Engineering Chemistry Research, 1992, 31, 2722-2727.	1.8	52
32	Preparation of a hydrophobic porous membrane containing phenyl groups and its protein adsorption performance. Journal of Chromatography A, 1995, 718, 27-34.	1.8	51
33	Comparison of protein adsorption by anion-exchange interaction onto porous hollow-fiber membrane and gel bead-packed bed. Journal of Membrane Science, 1996, 117, 135-142.	4.1	50
34	High-speed recovery of germanium in a convection-aided mode using functional porous hollow-fiber membranes. Journal of Chromatography A, 2000, 888, 43-49.	1.8	50
35	Binary metal-ion sorption during permeation through chelating porous membranes. Journal of Membrane Science, 1996, 111, 1-6.	4.1	49
36	A High-Throughput Colorimetric Screening Assay for Terpene Synthase Activity Based on Substrate Consumption. PLoS ONE, 2014, 9, e93317.	1.1	49

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37	Chemical Forms of Uranium in Artificial Seawater. Journal of Nuclear Science and Technology, 1982, 19, 145-150.	0.7	48
38	Novel hollow fiber membrane for the removal of metal ion during permeation: preparation by radiation-induced cografting of a crosslinking agent with reactive monomer. Industrial & Engineering Chemistry Research, 1989, 28, 1808-1812.	1.8	48
39	Highly Efficient Enzyme Recovery Using a Porous Membrane with Immobilized Tentacle Polymer Chains. Bio/technology, 1995, 13, 795-797.	1.9	47
40	High-speed recovery of antimony using chelating porous hollow-fiber membrane. Journal of Membrane Science, 2003, 214, 275-281.	4.1	47
41	Radiation-induced graft polymerization is the key to develop high-performance functional materials for protein purification. Radiation Physics and Chemistry, 1999, 54, 517-525.	1.4	46
42	Multilayer Binding of Proteins to Polymer Chains Grafted onto Porous Hollow-Fiber Membranes Containing Different Anion-Exchange Groups. Biotechnology Progress, 2000, 16, 456-461.	1.3	45
43	Ionic crosslinking of SO3H-group-containing graft chains helps to capture lysozyme in a permeation mode. Journal of Chromatography A, 1999, 848, 161-168.	1.8	43
44	Extension and Shrinkage of Polymer Brush Grafted onto Porous Membrane Induced by Protein Binding. Macromolecules, 2000, 33, 1306-1309.	2.2	42
45	Optimum preparation conditions of amidoxime hollow fiber synthesized by radiation-induced grafting. Journal of Applied Polymer Science, 1990, 39, 2153-2163.	1.3	40
46	A nucleoside kinase as a dual selector for genetic switches and circuits. Nucleic Acids Research, 2011, 39, e12-e12.	6.5	39
47	Binding of dl-tryptophan to BSA adsorbed in multilayers by polymer chains grafted onto a porous hollow-fiber membrane in a permeation mode. Journal of Membrane Science, 1999, 152, 143-149.	4.1	38
48	Preparation of microfiltration membranes containing anion-exchange groups. Journal of Membrane Science, 1993, 76, 209-218.	4.1	36
49	Comparison of Two Convection-Aided Protein Adsorption Methods Using Porous Membranes and Perfusion Beads. Biotechnology Progress, 1996, 12, 869-872.	1.3	36
50	Attachment of sulfonic acid groups to various shapes of polyethylene, polypropylene and polytetrafluoroethylene by radiation-induced graft polymerization. Reactive & Functional Polymers, 1993, 21, 187-191.	0.8	35
51	Selection of a precursor monomer for the introduction of affinity ligands onto a porous membrane by radiation-induced graft polymerization. Journal of Chromatography A, 1997, 758, 209-215.	1.8	35
52	Hydrodynamic Evaluation of Three-Dimensional Adsorption of Protein to a Polymer Chain Grafted onto a Porous Substrate. Journal of Colloid and Interface Science, 1995, 176, 95-100.	5.0	34
53	Protein Adsorption and Elution Performances of Porous Hollow-Fiber Membranes Containing Various Hydrophobic Ligands. Biotechnology Progress, 1997, 13, 89-95.	1.3	34
54	Design of urea-permeable anion-exchange membrane by radiation-induced graft polymerization. Journal of Membrane Science, 1993, 81, 295-305.	4.1	33

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55	Module performance of anion-exchange porous hollow-fiber membranes for high-speed protein recovery. Journal of Chromatography A, 1997, 782, 159-165.	1.8	33
56	High collection rate of Pd in hydrochloric acid medium using chelating microporous membrane. Journal of Membrane Science, 1994, 95, 63-69.	4.1	32
57	Proton Transport Through Polyethyleneâ€Tetrafluoroethyleneâ€Copolymerâ€Based Membrane Containing Sulfonic Acid Group Prepared by RIGP. Journal of the Electrochemical Society, 1996, 143, 2795-2799.	1.3	31
58	Charged polymer brush grafted onto porous hollow-fiber membrane improves separation and reaction in biotechnology. Separation Science and Technology, 2002, 37, 535-554.	1.3	31
59	Construction of carotenoid biosynthetic pathways using squalene synthase. FEBS Letters, 2014, 588, 436-442.	1.3	31
60	Convection-aided collection of metal ions using chelating porous flat-sheet membranes. Journal of Chromatography A, 2002, 954, 277-283.	1.8	30
61	Removal of Antimony (III) Using Polyol-Ligand-Containing Porous Hollow-Fiber Membranes. Separation Science and Technology, 2004, 39, 3011-3022.	1.3	30
62	Enzymatic miniemulsion polymerization of styrene with a polymerizable surfactant. Polymer Chemistry, 2012, 3, 900.	1.9	30
63	Production of Cycloisomaltooligosaccharides from Dextran Using Enzyme Immobilized in Multilayers onto Porous Membranes. Biotechnology Progress, 2002, 18, 465-469.	1.3	29
64	Preparation of an extractant-impregnated porous membrane for the high-speed separation of a metal ion. Journal of Chromatography A, 2005, 1094, 158-164.	1.8	29
65	Surface-initiated enzymatic vinyl polymerization: synthesis of polymer-grafted silica particles using horseradish peroxidase as catalyst. Polymer Chemistry, 2012, 3, 1123.	1.9	29
66	Molecular weight distribution of methyl methacrylate grafted onto a microfiltration membrane by radiation-induced graft polymerization. Journal of Membrane Science, 1993, 85, 71-80.	4.1	28
67	High-throughput solid-phase extraction of metal ions using an iminodiacetate chelating porous disk prepared by graft polymerization. Journal of Chromatography A, 2007, 1176, 37-42.	1.8	28
68	A fundamental study on recovery of copper with a cation exchange membrane: Part 2 â€" Transfer rate of copper and hydrogen ion through a cation exchange membrane. Canadian Journal of Chemical Engineering, 1982, 60, 650-658.	0.9	27
69	Characteristics of uranium adsorption by amidoxime membrane synthesized by radiationinduced graft polymerization. Journal of Membrane Science, 1987, 34, 307-315.	4.1	27
70	Hydrolysis of Methyl Acetate and Sucrose in SO3H-Group-Containing Grafted Polymer Chains Prepared by Radiation-Induced Graft Polymerization. Industrial & Engineering Chemistry Research, 1994, 33, 2215-2219.	1.8	27
71	Simple Introduction of Sulfonic Acid Group onto Polyethylene by Radiation-Induced Cografting of Sodium Styrenesulfonate with Hydrophilic Monomers. Industrial & Engineering Chemistry Research, 1993, 32, 1464-1470.	1.8	26
72	Introduction of taurine into polymer brush grafted onto porous hollow-fiber membrane. Journal of Membrane Science, 2005, 264, 97-103.	4.1	26

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73	Diffusivities of Uranium in Artificial Seawater. Kagaku Kogaku Ronbunshu, 1981, 7, 545-548.	0.1	25
74	Preparation of silver-ion-loaded nonwoven fabric by radiation-induced graft polymerization. Reactive and Functional Polymers, 1999, 40, 275-279.	2.0	25
75	High-performance purification of gelsolin from plasma using anion-exchange porous hollow-fiber membrane. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 821, 153-158.	1.2	25
76	Repeated use of a hydrophobic ligand-containing porous membrane for protein recovery. Journal of Membrane Science, 1997, 134, 67-73.	4.1	24
77	Structure of polyolâ€“ligand-containing polymer brush on the porous membrane for antimony(III) binding. Journal of Membrane Science, 2004, 236, 65-71.	4.1	24
78	Rapid Diversification of BetI-Based Transcriptional Switches for the Control of Biosynthetic Pathways and Genetic Circuits. ACS Synthetic Biology, 2016, 5, 1201-1210.	1.9	24
79	Tailoring a Brush-Type Interface Favorable for Capturing Microbial Cells. Journal of Colloid and Interface Science, 1998, 200, 66-73.	5.0	23
80	Solvent effect on protein binding by polymer brush grafted onto porous membranes. Journal of Chromatography A, 2002, 953, 101-109.	1.8	23
81	Amino acid addition to epoxy-group-containing polymer chain grafted onto a porous membrane. Journal of Membrane Science, 1996, 109, 87-92.	4.1	22
82	Characteristics of Porous Anion-Exchange Membranes Prepared by Cografting of Glycidyl Methacrylate with Divinylbenzene. Chemistry of Materials, 1999, 11, 1986-1989.	3.2	22
83	Cation-Exchange Porous Hollow-Fiber Membranes Prepared by Radiation-Induced Cografting of GMA and EDMA Which Improved Pure Water Permeability and Sodium Ion Adsorptivity. Industrial & Engineering Chemistry Research, 2002, 41, 5686-5691.	1.8	22
84	Recovery of Sb(V) using a functional-ligand-containing porous hollow-fiber membrane prepared by radiation-induced graft polymerization. Hydrometallurgy, 2006, 81, 190-196.	1.8	22
85	Control of phenyl-group site introduced on the graft chain for hydrophobic interaction chromatography. Reactive and Functional Polymers, 1996, 29, 115-122.	2.0	21
86	Selection of the alkylamino group introduced into the polymer chain grafted onto a porous membrane for the impregnation of an acidic extractant. Journal of Membrane Science, 2005, 262, 153-158.	4.1	21
87	Capture of microbial cells on brush-type polymeric materials bearing different functional groups. , 1997, 53, 523-528.		20
88	Adsorption of Uranium in Sea Water Using Amidoxime Adsorbents Prepared by Radiation-Induced Cografting.. Nippon Genshiryoku Gakkaishi/Journal of the Atomic Energy Society of Japan, 1998, 40, 878-880.	0.0	20
89	High-performance collection of palladium ions in acidic media using nucleic-acid-base-immobilized porous hollow-fiber membranes. Journal of Membrane Science, 2008, 307, 82-87.	4.1	20
90	Impregnation structure of cobalt ferrocyanide microparticles by the polymer chain grafted onto nylon fiber. Journal of Nuclear Science and Technology, 2016, 53, 1251-1255.	0.7	20

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91	Comparison of Formation Site of Graft Chain between Nonporous and Porous Films Prepared by RIGP. Chemistry of Materials, 1996, 8, 2618-2621.	3.2	19
92	Fluorescence Study on the Conformational Change of an Amino Group-Containing Polymer Chain Grafted onto a Polyethylene Microfiltration Membrane. Macromolecules, 1998, 31, 366-370.	2.2	19
93	Highly Multilayered Urease Decomposes Highly Concentrated Urea. Biotechnology Progress, 2003, 19, 396-399.	1.3	19
94	Directed evolution of the autoinducer selectivity of <i>Vibrio fischeri</i> LuxR. Journal of General and Applied Microbiology, 2016, 62, 240-247.	0.4	19
95	Immobilization of ascorbic acid oxydase in multilayers onto porous hollow-fiber membrane. Journal of Membrane Science, 2001, 191, 207-213.	4.1	18
96	High-throughput hydrolysis of starch during permeation across Î±-amylase-immobilized porous hollow-fiber membranes. Radiation Physics and Chemistry, 2002, 63, 143-149.	1.4	18
97	Evolutionary Design of Choline-Inducible and -Repressible T7-Based Induction Systems. ACS Synthetic Biology, 2015, 4, 1352-1360.	1.9	18
98	Selective binding of docosahexaenoic acid ethyl ester to a silver-ion-loaded porous hollow-fiber membrane. JAOCS, Journal of the American Oil Chemists' Society, 1999, 76, 771-775.	0.8	17
99	Conversion of Dextran to Cycloisomaltooligosaccharides Using an Enzyme-Immobilized Porous Hollow-Fiber Membrane. Journal of Agricultural and Food Chemistry, 2002, 50, 1073-1076.	2.4	17
100	Preparation of Aliquat 336-impregnated porous membrane. Journal of Membrane Science, 2006, 281, 195-202.	4.1	17
101	Preparation of titania hollow particles with independently controlled void size and shell thickness by catalytic templating coreâ€“shell polymer particles. Colloid and Polymer Science, 2013, 291, 215-222.	1.0	17
102	Protein Adsorption Characteristics of a Sulfonic-Acid-Group-Containing Nonwoven Fabric. Biotechnology Progress, 1998, 14, 661-663.	1.3	16
103	Esterification of lauric acid using lipase immobilized in the micropores of a hollow-fiber membrane. JAOCS, Journal of the American Oil Chemists' Society, 2006, 83, 209-213.	0.8	16
104	Modification of a Porous Sheet (MAPS) for the High-Performance Solid-Phase Extraction of Trace and Ultratrace Elements by Radiation-Induced Graft Polymerization. Analytical Sciences, 2010, 26, 649-658.	0.8	16
105	Permeability of methyl methacrylate grafted cellulose triacetate membrane. Chemistry of Materials, 1990, 2, 705-708.	3.2	15
106	Radiation-induced grafting of phenylalanine-containing monomer onto a porous membrane. Reactive and Functional Polymers, 1996, 31, 103-110.	2.0	15
107	Adsorption Kinetics of Microbial Cells onto a Novel Brush-Type Polymeric Material Prepared by Radiation-Induced Graft Polymerization. Biotechnology Progress, 1996, 12, 178-183.	1.3	15
108	High Conversion in Asymmetric Hydrolysis during Permeation through Enzyme-Multilayered Porous Hollow-Fiber Membranes. Biotechnology Progress, 2001, 17, 872-875.	1.3	15

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109	Optimization of reaction conditions in production of cycloisomaltooligosaccharides using enzyme immobilized in multilayers onto pore surface of porous hollow-fiber membranes. Journal of Membrane Science, 2002, 205, 175-182.	4.1	15
110	Protein Binding to Amphoteric Polymer Brushes Grafted onto a Porous Hollow-Fiber Membrane. Biotechnology Progress, 2007, 23, 1425-1430.	1.3	15
111	Production of Tripeptide from Gelatin Using Collagenase-Immobilized Porous Hollow-Fiber Membrane. Biotechnology Progress, 2008, 19, 1365-1367.	1.3	14
112	Directed Evolution of the Stringency of the LuxR Vibrio fischeri Quorum Sensor without OFF-State Selection. ACS Synthetic Biology, 2020, 9, 567-575.	1.9	14
113	Evolutionary analysis of the functional plasticity of Staphylococcus aureus C30 carotenoid synthase. Journal of Bioscience and Bioengineering, 2014, 117, 431-436.	1.1	12
114	Directed evolution of Vibrio fischeri LuxR signal sensitivity. Journal of Bioscience and Bioengineering, 2016, 122, 533-538.	1.1	12
115	Recent Progress in Charged Polymer Chains Grafted by Radiation-Induced Graft Polymerization; Adsorption of Proteins and Immobilization of Inorganic Precipitates. Quantum Beam Science, 2020, 4, 20.	0.6	12
116	Characteristics of uranium adsorption by amidoxime membrane synthesized by radiation-induced graft polymerization. Journal of Membrane Science, 1987, 34, 307-315.	4.1	11
117	High-performance polymeric materials for separation and reaction, prepared by radiation-induced graft polymerization. Studies in Physical and Theoretical Chemistry, 2001, , 671-704.	0.0	11
118	Separation of U and Pu in spent nuclear fuel sample using anion-exchange-group-introduced porous polymer sheet for ICP-MS determination. Talanta, 2008, 77, 695-700.	2.9	11
119	Determination of Mole Percentages of Brush and Root of Polymer Chain Grafted onto Porous Sheet. Journal of Chemical Engineering of Japan, 2013, 46, 414-419.	0.3	11
120	Chemical forms of uranium in artificial seawater.. Journal of Nuclear Science and Technology, 1982, 19, 145-150.	0.7	11
121	Synthesis of a hollow fiber type porous chelating resin containing the amide oxime group by radiation induced graft polymerization for the uranium recovery.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1986, 1986, 1792-1798.	0.1	10
122	Electrodialysis of Sulfuric Acid with Cation-Exchange Membranes Prepared by Electron-Beam-Induced Graft Polymerization. Journal of Ion Exchange, 2011, 22, 53-57.	0.1	10
123	Effect of Dose on Mole Percentages of Polymer Brush and Root Grafted onto Porous Polyethylene Sheet by Radiation-Induced Graft Polymerization. Industrial & Engineering Chemistry Research, 2013, 52, 12582-12586.	1.8	10
124	Preparation of Microvolume Anion-Exchange Cartridge for Inductively Coupled Plasma Mass Spectrometry-Based Determination of ²³⁷Np Content in Spent Nuclear Fuel. Analytical Chemistry, 2016, 88, 3149-3155.	3.2	10
125	Adsorption equilibrium of uranium from seawater on chelating resin containing amide oxime group.. Kagaku Kogaku Ronbunshu, 1987, 13, 795-800.	0.1	9
126	Effect of vapor- and liquid-phase radiation grafting on water permeability of porous hollow-fiber membrane.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1988, 1988, 212-216.	0.1	9

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127	Local mobility of polymer chain grafted onto polyethylene monitored by fluorescence depolarization. Chemical Physics Letters, 1997, 275, 203-210.	1.2	9
128	Terminally Anchored Polymer Brushes on a Semicrystalline Microporous Polyethylene Fiber. Chemistry of Materials, 1999, 11, 3091-3095.	3.2	9
129	Comparison of l-tryptophan binding capacity of BSA captured by a polymer brush with that of BSA adsorbed onto a gel network. Journal of Chromatography A, 2001, 925, 41-47.	1.8	9
130	Dependence of Lanthanide-Ion Binding Performance on HDEHP Concentration in HDEHP Impregnation to Porous Sheet. Solvent Extraction and Ion Exchange, 2012, 30, 171-180.	0.8	9
131	Construction of a Nonnatural C₆₀ Carotenoid Biosynthetic Pathway. ACS Synthetic Biology, 2019, 8, 511-520.	1.9	9
132	Impregnation of a Neutral Extractant to Hydrophobic/Hydrophilic Groups Introduced into the Polymer Chain Grafted onto a Porous Membrane. Membrane, 2008, 33, 32-38.	0.0	9
133	Synthesis of new polymers containing tannin. Journal of Applied Polymer Science, 1990, 39, 855-863.	1.3	8
134	Purification of Docosahexaenoic Acid Ethyl Ester Using a Silver-Ion-Immobilized Porous Hollow-Fiber Membrane Module. Biotechnology Progress, 2001, 17, 893-896.	1.3	8
135	Binding of ionic surfactants to charged polymer brushes grafted onto porous substrates. Journal of Chromatography A, 2002, 954, 89-97.	1.8	8
136	Skin-layer formation on porous membrane by immobilized dextransucrase. AICHE Journal, 2004, 50, 696-700.	1.8	8
137	Interaction Between an Acidic Extractant and an Octadecylamino Group Introduced into a Grafted Polymer Chain. Separation Science and Technology, 2005, 40, 3349-3364.	1.3	8
138	Modification of a hydrophobic-ligand-containing porous sheet using tri-n-octylphosphine oxide, and its adsorption/elution of bismuth ions. Reactive and Functional Polymers, 2010, 70, 986-990.	2.0	8
139	Removal of Urea from Water Using Urease-Immobilized Fibers. Journal of Chemical Engineering of Japan, 2013, 46, 509-513.	0.3	8
140	Directed evolution of squalene synthase for dehydrosqualene biosynthesis. FEBS Letters, 2014, 588, 3375-3381.	1.3	8
141	Liquid-Based Iterative Recombineering Method Tolerant to Counter-Selection Escapes. PLoS ONE, 2015, 10, e0119818.	1.1	8
142	Rapid and Liquid-Based Selection of Genetic Switches Using Nucleoside Kinase Fused with Aminoglycoside Phosphotransferase. PLoS ONE, 2015, 10, e0120243.	1.1	8
143	Design of polymer brushes for immobilizing enzymes onto hollow fiber micropores in organic media reaction. Biochemical Engineering Journal, 2007, 37, 159-165.	1.8	7
144	Directed evolution and expression tuning of geraniol synthase for efficient geraniol production in <i>Escherichia coli</i>. Journal of General and Applied Microbiology, 2017, 63, 287-295.	0.4	7

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145	Genetically engineered biosynthetic pathways for nonnatural C60 carotenoids using C5-elongases and C50-cyclases in Escherichia coli. Scientific Reports, 2019, 9, 2982.	1.6	7
146	Effect of Salt Concentration of Cesium Solution on Cesium-Binding Capacity of Potassium Cobalt-Hexacyanoferrate-Impregnated Fiber. Kagaku Kogaku Ronbunshu, 2013, 39, 28-32.	0.1	7
147	Preparation of Extractant-impregnated Porous Sheets for High-speed Separation of Radionuclides. Journal of Ion Exchange, 2007, 18, 480-485.	0.1	7
148	Impregnation of an Acidic Extractant Cyanex 272 to the Alkylamino Group and Alkylthiol Group Introduced into the Polymer Chain Grafted onto a Porous Membrane. Membrane, 2007, 32, 109-115.	0.0	7
149	Comparison of simultaneous and preirradiation grafting of methyl methacrylate onto a porous membrane. Chemistry of Materials, 1991, 3, 987-989.	3.2	6
150	Effects of Aliquat 336 Concentration and Solvent Composition on Amount of Aliquat 336 Impregnated and Liquid Permeability of Aliquat 336-Impregnated Porous Hollow-Fiber Membrane. Membrane, 2007, 32, 168-174.	0.0	6
151	Rapid separation of zirconium using microvolume anion-exchange cartridge for 93Zr determination with isotope dilution ICP-MS. Talanta, 2018, 185, 98-105.	2.9	6
152	Preparation of Cation-Exchange Particle Designed for High-Speed Collection of Proteins by Radiation-Induced Graft Polymerization. Journal of Ion Exchange, 2010, 21, 29-34.	0.1	6
153	Reactor of vapor-phase graft polymerization of reactive monomer onto porous hollow fiber. AICHE Journal, 1996, 42, 1095-1100.	1.8	5
154	Protein Resolution in Elution Chromatography Using Novel Cation-Exchange Polymer-Brush-Immobilized Particles. Journal of Chemical Engineering of Japan, 2012, 45, 896-902.	0.3	5
155	Dependence of protein binding capacity of dimethylamino-Î³-butyric-acid (DMGABA)-immobilized porous membrane on composition of solvent used for DMGABA immobilization. Radiation Physics and Chemistry, 2013, 87, 53-58.	1.4	5
156	Protein-Binding Characteristics of Anion-Exchange Particles Prepared by Radiation-Induced Graft Polymerization at Low Temperatures. Journal of Chemical Engineering of Japan, 2013, 46, 588-592.	0.3	5
157	Improvement of protein binding capacity of acrylic-acid-grafted fibers by polymer root-to-brush shift. Radiation Physics and Chemistry, 2019, 158, 131-136.	1.4	5
158	Similarity of Rare Earth Extraction by Acidic Extractant Bis(2-ethylhexyl) Phosphate (HDEHP) Supported on a Dodecylamino-Group-Containing Graft Chain and by HDEHP Dissolved in Dodecane. Kagaku Kogaku Ronbunshu, 2014, 40, 404-409.	0.1	5
159	Preparation of Sizeâ€“Exclusion Polymer Chain Grafted onto the Pore Surface of a Porous Hollowâ€“Fiber Membrane. Membrane, 2009, 34, 220-226.	0.0	5
160	Radicals contributing to preirradiation graft polymerization onto porous polyethylene. International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements, 1992, 40, 31-36.	0.0	4
161	Chiral Separation of DL-Tryptophan Using Bovine-Serum-Albumin-Multilayered Porous Hollow-Fiber Membrane.. Kagaku Kogaku Ronbunshu, 1998, 24, 458-461.	0.1	4
162	Recovery of p.t-CEtGeO Using Chelating Porous Membranes Prepared with Various Compositions of Dioxane/Water Solvent. Journal of Ion Exchange, 2007, 18, 68-74.	0.1	4

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