Mathias Ulbricht

List of Publications by Year
in descending order

324	15,762	15504 65	23533 111
papers	citations	h-index	g-index

341	341	341	12768
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advanced functional polymer membranes. Polymer, 2006, 47, 2217-2262.	3.8	1,758
2	Characteristics, performance and stability of polyethersulfone ultrafiltration membranes prepared by phase separation method using different macromolecular additives. Journal of Membrane Science, 2009, 327, 125-135.	8.2	441
3	Surface modification of ultrafiltration membranes by low temperature plasma II. Graft polymerization onto polyacrylonitrile and polysulfone. Journal of Membrane Science, 1996, 111, 193-215.	8.2	352
4	Thinking the future of membranes: Perspectives for advanced and new membrane materials and manufacturing processes. Journal of Membrane Science, 2020, 598, 117761.	8.2	348
5	Photo-induced graft polymerization surface modifications for the preparation of hydrophilic and low-proten-adsorbing ultrafiltration membranes. Journal of Membrane Science, 1996, 115, 31-47.	8.2	294
6	Membrane separations using molecularly imprinted polymers. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 804, 113-125.	2.3	274
7	Photo-irradiation for preparation, modification and stimulation of polymeric membranes. Progress in Polymer Science, 2009, 34, 62-98.	24.7	261
8	Receptor and transport properties of imprinted polymer membranes â€“ a review. Journal of Membrane Science, 1999, 157, 263-278.	8.2	259
9	Photografted Thin Polymer Hydrogel Layers on PES Ultrafiltration Membranes:â€‰ Characterization, Stability, and Influence on Separation Performance. Langmuir, 2007, 23, 7818-7830.	3.5	230
10	Surface Modification of Polypropylene Microporous Membranes with a Novel Glycopolymer. Chemistry of Materials, 2005, 17, 3050-3058.	6.7	223
11	Surface Functionalization of Porous Polypropylene Membranes with Molecularly Imprinted Polymers by Photograft Copolymerization in Water. Macromolecules, 2000, 33, 3092-3098.	4.8	206
12	Porous Polypropylene Membranes with Different Carboxyl Polymer Brush Layers for Reversible Protein Binding via Surface-Initiated Graft Copolymerization. Chemistry of Materials, 2005, 17, 2622-2631.	6.7	187
13	Composites of functional polymeric hydrogels and porous membranes. Journal of Materials Chemistry, 2011, 21, 2783-2811.	6.7	186
14	Preparation and characterization of low fouling novel hybrid ultrafiltration membranes based on the blends of GOâ^'TiO2 nanocomposite and polysulfone for humic acid removal. Journal of Membrane Science, 2016, 506, 38-49.	8.2	183
15	Selfâ€Supporting, Double Stimuliâ€Responsive Porous Membranes From Polystyreneâ€blockâ€poly(N,Nâ€dimethylaminoethyl methacrylate) Diblock Copolymers. Advanced Functional Materials, 2009, 19, 1040-1045.	14.9	162
16	Exploiting Synergetic Effects of Graphene Oxide and a Silver-Based Metalâ€“Organic Framework To Enhance Antifouling and Anti-Biofouling Properties of Thin-Film Nanocomposite Membranes. ACS Applied Materials & Interfaces, 2018, 10, 42967-42978.	8.0	161
17	Molecularly imprinted polymer membranes for substance-selective solid-phase extraction from water by surface photo-grafting polymerization. Journal of Chromatography A, 2001, 907, 89-99.	3.7	156
18	Nano-sized metal organic framework to improve the structural properties and desalination performance of thin film composite forward osmosis membrane. Journal of Membrane Science, 2017, 531, 59-67.	8.2	148

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19	Surface-initiated atom transfer radical polymerization: A new method for preparation of polymeric membrane adsorbers. Journal of Membrane Science, 2008, 309, 64-72.	8.2	136
20	Ultrafiltration of polysaccharideâ€“protein mixtures: Elucidation of fouling mechanisms and fouling control by membrane surface modification. Separation and Purification Technology, 2008, 63, 558-565.	7.9	134
21	Influence of ultrafiltration membrane characteristics on adsorptive fouling with dextrans. Journal of Membrane Science, 2005, 266, 132-142.	8.2	130
22	Photograft-polymer-modified microporous membranes with environment-sensitive permeabilities. Reactive and Functional Polymers, 1996, 31, 165-177.	4.1	129
23	Impedometric herbicide chemosensors based on molecularly imprinted polymers. Analytica Chimica Acta, 2001, 435, 157-162.	5.4	127
24	Antifouling and Antibacterial Multifunctional Polyzwitterion/Enzyme Coating on Silicone Catheter Material Prepared by Electrostatic Layer-by-Layer Assembly. Langmuir, 2016, 32, 1347-1359.	3.5	122
25	Novel photochemical surface functionalization of polysulfone ultrafiltration membranes for covalent immobilization of biomolecules. Journal of Membrane Science, 1996, 120, 239-259.	8.2	120
26	Surface modification of polypropylene microfiltration membranes by the immobilization of poly(N-vinyl-2-pyrrolidone): a facile plasma approach. Journal of Membrane Science, 2005, 249, 21-31.	8.2	120
27	Fouling behavior of aqueous solutions of polyphenolic compounds during ultrafiltration. Journal of Food Engineering, 2009, 91, 333-340.	5.2	120
28	Intermolecular Forces between Proteins and Polymer Films with Relevance to Filtration. Langmuir, 1997, 13, 4162-4171.	3.5	118
29	Controlled Pore Functionalization of Poly(ethylene terephthalate) Track-Etched Membranes via Surface-Initiated Atom Transfer Radical Polymerization. Langmuir, 2007, 23, 10316-10322.	3.5	115
30	Influences of solution chemistry and polymeric natural organic matter on the removal of aquatic pharmaceutical residuals by nanofiltration. Water Research, 2009, 43, 3270-3280.	11.3	113
31	Fouling in microfiltration of wine: The influence of the membrane polymer on adsorption of polyphenols and polysaccharides. Separation and Purification Technology, 2009, 68, 335-342.	7.9	109
32	Surface modification of ultrafiltration membranes by low temperature plasma. I. Treatment of polyacrylonitrile. Journal of Applied Polymer Science, 1995, 56, 325-343.	2.6	108
33	Chemically and morphologically defined ultrafiltration membrane surfaces prepared by heterogeneous photo-initiated graft polymerization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 138, 353-366.	4.7	106
34	High performance polyethersulfone microfiltration membranes having high flux and stable hydrophilic property. Journal of Membrane Science, 2009, 342, 153-164.	8.2	102
35	Permeability and Electrokinetic Characterization of Poly(ethylene terephthalate) Capillary Pore Membranes with Grafted Temperature-Responsive Polymers. Langmuir, 2007, 23, 76-83.	3.5	99
36	Double Stimuli-Responsive Ultrafiltration Membranes from Polystyrene-block-poly(N,N-dimethylaminoethyl methacrylate) Diblock Copolymers. ACS Applied Materials & Interfaces, 2009, 1, 1492-1503.	8.0	95

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37	Modulating the biocompatibility of polymer surfaces with poly(ethylene glycol): Effect of fibronectin. Journal of Biomedical Materials Research Part B, 2000, 52, 219-230.	3.1	93
38	Via surface functionalization by photograft copolymerization to low-fouling polyethersulfone-based ultrafiltration membranes. Journal of Membrane Science, 2007, 288, 157-167.	8.2	93
39	Intermolecular Forces between a Protein and a Hydrophilic Modified Polysulfone Film with Relevance to Filtration. Langmuir, 2000, 16, 10419-10427.	3.5	92
40	Factors affecting the sieving behavior of anti-fouling thin-layer cross-linked hydrogel polyethersulfone composite ultrafiltration membranes. Journal of Membrane Science, 2012, 390-391, 99-112.	8.2	90
41	Molecular imprinting of cellulose acetate-sulfonated polysulfone blend membranes for Rhodamine B by phase inversion technique. Journal of Membrane Science, 2003, 217, 207-214.	8.2	89
42	Piezoelectric 3-D Fibrous Poly(3-hydroxybutyrate)-Based Scaffolds Ultrasound-Mineralized with Calcium Carbonate for Bone Tissue Engineering: Inorganic Phase Formation, Osteoblast Cell Adhesion, and Proliferation. ACS Applied Materials & Interfaces, 2019, 11, 19522-19533.	8.0	88
43	Photoreactive Functionalization of Poly(ethylene terephthalate) Track-Etched Pore Surfaces with ?Smart? Polymer Systems. Macromolecular Chemistry and Physics, 2005, 206, 268-281.	2.2	87
44	Novel hydrogel pore-filled composite membranes with tunable and temperature-responsive size-selectivity. Journal of Materials Chemistry, 2012, 22, 3088.	6.7	86
45	Optimizing Cellâ^'Surface Interactions by Photografting of Poly(ethylene glycol). Langmuir, 2000, 16, 2756-2765.	3.5	84
46	Size-Selective Protein Adsorption to Polystyrene Surfaces by Self-Assembled Grafted Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.5	83
47	Gas-phase photoinduced graft polymerization of acrylic acid onto polyacrylonitrile ultrafiltration membranes. Journal of Applied Polymer Science, 1995, 55, 1707-1723.	2.6	82
48	Fouling effects of humic and alginic acids in nanofiltration and influence of solution composition. Desalination, 2010, 250, 688-692.	8.2	82
49	Novel Membrane Adsorbers with Grafted Zwitterionic Polymers Synthesized by Surface-Initiated ATRP and Their Salt-Modulated Permeability and Protein Binding Properties. Chemistry of Materials, 2012, 24, 2943-2951.	6.7	82
50	Novel antifouling positively charged hybrid ultrafiltration membranes for protein separation based on blends of carboxylated carbon nanotubes and aminated poly(arylene ether sulfone). Journal of Membrane Science, 2013, 448, 62-73.	8.2	80
51	Designing magnetic field responsive nanofiltration membranes. Journal of Membrane Science, 2013, 430, 70-78.	8.2	79
52	Dextran fouling of polyethersulfone ultrafiltration membranesâ€"Causes, extent and consequences. Journal of Membrane Science, 2007, 296, 147-155.	8.2	73
53	Sugarcane juice ultrafiltration: FTIR and SEM analysis of polysaccharide fouling. Journal of Membrane Science, 2007, 306, 287-297.	8.2	72
54	Influence of the strongly anisotropic cross-section morphology of a novel polyethersulfone microfiltration membrane on filtration performance. Separation and Purification Technology, 2007, 57, 63-73.	7.9	72

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55	Ultrafiltration of humic acid solutions through unmodified and surface functionalized low-fouling polyethersulfone membranes â€“ Effects of feed properties, molecular weight cut-off and membrane chemistry on fouling behavior and cleanability. Separation and Purification Technology, 2011, 81, 124-133.	7.9	72
56	Interfacial Polymerization of Zwitterionic Building Blocks for High-Flux Nanofiltration Membranes. Langmuir, 2019, 35, 1284-1293.	3.5	71
57	Immobilization of enzymes in photochemically cross-linked polyvinyl alcohol. Enzyme and Microbial Technology, 1996, 19, 124-131.	3.2	70
58	Novel high performance photo-graft composite membranes for separation of organic liquids by pervaporation. Journal of Membrane Science, 1997, 136, 25-33.	8.2	70
59	Anti-nonspecific Protein Adsorption Properties of Biomimetic Glycocalyx-like Glycopolymer Layers: Effects of Glycopolymer Chain Density and Protein Size. Langmuir, 2010, 26, 5746-5752.	3.5	70
60	Magnetically Activated Micromixers for Separation Membranes. Langmuir, 2011, 27, 5574-5581.	3.5	70
61	Chemical and Physical Factors in Design of Antibiofouling Polymer Coatings. Biomacromolecules, 2011, 12, 2681-2685.	5.4	70
62	Cylindrical Pores Responding to Two Different Stimuli via Surface-Initiated Atom Transfer Radical Polymerization for Synthesis of Grafted Diblock Copolymers. Macromolecules, 2009, 42, 1838-1848.	4.8	69
63	Preparation and characterization of a novel solvent-resistant and autoclavable polymer membrane. Journal of Membrane Science, 2002, 198, 187-196.	8.2	68
64	High-performance thin-layer hydrogel composite membranes for ultrafiltration of natural organic matter. Water Research, 2008, 42, 2827-2835.	11.3	68
65	Fabrication of modified polyethersulfone membranes for wastewater treatment by submerged membrane bioreactor. Separation and Purification Technology, 2017, 175, 36-46.	7.9	67
66	Macroporous Poly(N-isopropylacrylamide) Hydrogels with Adjustable Size â€œCut-offâ€•for the Efficient and Reversible Immobilization of Biomacromolecules. Macromolecular Bioscience, 2006, 6, 393-402.	4.1	64
67	Dispersions of silica nanoparticles in ionic liquids investigated with advanced rheology. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	64
68	Thermoresponsive ultrafiltration membranes for the switchable permeation and fractionation of nanoparticles. Journal of Membrane Science, 2013, 448, 1-11.	8.2	64
69	Assessing biofouling resistance of a polyamide reverse osmosis membrane surface-modified with a zwitterionic polymer. Journal of Membrane Science, 2016, 520, 490-498.	8.2	64
70	UV-Photo Graft Functionalization of Polyethersulfone Membrane with Strong Polyelectrolyte Hydrogel and Its Application for Nanofiltration. ACS Applied Materials & Interfaces, 2012, 4, 3438-3446.	8.0	63
71	Improvement of virus removal using ultrafiltration membranes modified with grafted zwitterionic polymer hydrogels. Water Research, 2017, 116, 86-94.	11.3	63
72	A comparative study on the photocatalytic degradation of organic dyes using hybridized 1T/2H, 1T/3R and 2H MoS₂ nano-sheets. RSC Advances, 2018, 8, 26364-26370.	3.6	63

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73	Ultrafiltration membrane surfaces with grafted polymer â€˜tentaclesâ€™: preparation, characterization and application for covalent protein binding. Biomaterials, 1998, 19, 1229-1237.	11.4	62
74	Design of Thermally Responsive Polymeric Hydrogels for Brackish Water Desalination: Effect of Architecture on Swelling, Deswelling, and Salt Rejection. ACS Applied Materials & Interfaces, 2015, 7, 15696-15706.	8.0	61
75	Fouling control in sugarcane juice ultrafiltration with surface modified polysulfone and polyethersulfone membranes. Desalination, 2009, 249, 1124-1131.	8.2	60
76	Detoxification of hexavalent chromium in wastewater containing organic substances using simonkolleite-TiO2 photocatalyst. Chemical Engineering Research and Design, 2015, 95, 247-254.	5.6	60
77	Surface micro-patterning as a promising platform towards novel polyamide thin-film composite membranes of superior performance. Journal of Membrane Science, 2017, 529, 11-22.	8.2	59
78	Polypropylene-based membrane adsorbers via photo-initiated graft copolymerization: Optimizing separation performance by preparation conditions. Journal of Membrane Science, 2008, 311, 294-305.	8.2	58
79	Novel ultrafiltration membranes with adjustable charge density based on sulfonated poly(arylene) Tj ETQq1 1 0.784314 rgBT /Overloc 354-365.	3.8	58
80	Quaternized polysulfone and graphene oxide nanosheet derived low fouling novel positively charged hybrid ultrafiltration membranes for protein separation. RSC Advances, 2015, 5, 51208-51219.	3.6	58
81	Electropolymerized Molecularly Imprinted Polypyrrole Film for Sensing of Clofibric Acid. Sensors, 2015, 15, 4870-4889.	3.8	57
82	Polyacrylonitrile enzyme ultrafiltration membranes prepared by adsorption, cross-linking, and covalent binding. Enzyme and Microbial Technology, 1997, 20, 61-68.	3.2	56
83	Ultrafiltration membranes with markedly different pH- and ion-responsivity by photografted zwitterionic polysulfobetain or polycarbobetain. Journal of Membrane Science, 2015, 494, 57-67.	8.2	56
84	Tuning the ultrafiltration properties of anti-fouling thin-layer hydrogel polyethersulfone composite membranes by suited crosslinker monomers and photo-grafting conditions. Journal of Membrane Science, 2010, 362, 560-568.	8.2	55
85	Systematic Investigation of Dispersions of Unmodified Inorganic Nanoparticles in Organic Solvents with Focus on the Hansen Solubility Parameters. Industrial & Engineering Chemistry Research, 2012, 51, 327-334.	3.7	55
86	Fabrication of nanoporous graphene/polymer composite membranes. Nanoscale, 2017, 9, 10487-10493.	5.6	55
87	Macroinitiator-mediated photoreactive coating of membrane surfaces with antifouling hydrogel layers. Journal of Membrane Science, 2014, 455, 207-218.	8.2	54
88	Low fouling negatively charged hybrid ultrafiltration membranes for protein separation from sulfonated poly(arylene ether sulfone) block copolymer and functionalized multiwalled carbon nanotubes. Separation and Purification Technology, 2014, 127, 181-191.	7.9	51
89	Influence of controlled functionalization of mesoporous silica nanoparticles as tailored fillers for thin-film nanocomposite membranes on desalination performance. Journal of Membrane Science, 2018, 563, 149-161.	8.2	50
90	Thin layer molecularly imprinted microfiltration membranes by photofunctionalization using a coated Î±-cleavage photoinitiator. Analyst, The, 2001, 126, 803-809.	3.5	49

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91	Surface modification of polypropylene microfiltration membrane via entrapment of an amphiphilic alkyl oligoethyleneglycolether. Journal of Membrane Science, 2010, 349, 312-320.	8.2	49
92	Cylindrical Membrane Pores with Well-Defined Grafted Linear and Comblike Glycopolymer Layers for Lectin Binding. Macromolecules, 2011, 44, 1303-1310.	4.8	48
93	ZnO Nanoparticles-Chitosan Composite as Antibacterial Finish for Textiles. International Journal of Carbohydrate Chemistry, 2012, 2012, 1-8.	1.5	48
94	Preparation of a silicate-containing hydroxyapatite-based coating by magnetron sputtering: structure and osteoblast-like MG63 cells in vitro study. RSC Advances, 2013, 3, 11240.	3.6	48
95	Functionalization of titania nanotubes with electrophoretically deposited silver and calcium phosphate nanoparticles: Structure, composition and antibacterial assay. Materials Science and Engineering C, 2019, 97, 420-430.	7.3	48
96	Towards Nanoporous Membranes based on ABC Triblock Terpolymers. Small, 2007, 3, 1056-1063.	10.0	47
97	Rheological studies on PNIPAAm hydrogel synthesis via in situ polymerization and on resulting viscoelastic properties. Reactive and Functional Polymers, 2013, 73, 141-148.	4.1	47
98	Decreased bacterial colonization of additively manufactured Ti6Al4V metallic scaffolds with immobilized silver and calcium phosphate nanoparticles. Applied Surface Science, 2019, 480, 822-829.	6.1	47
99	Protein-selective adsorbers by molecular imprinting via a novel two-step surface grafting method. Journal of Materials Chemistry B, 2013, 1, 3209.	5.8	46
100	Synthesis of photoreactive Î±-4-azidobenzoyl-Ï‰-methoxy-poly(ethylene glycol)s and their end-on photo-grafting onto polysulfone ultrafiltration membranes. Macromolecular Chemistry and Physics, 1998, 199, 2723-2729.	2.2	46
101	Poly(ethylene oxide)-block-poly(methyl methacrylate) diblock copolymers as functional additive for poly(vinylidene fluoride) ultrafiltration membranes with tailored separation performance. Journal of Membrane Science, 2018, 545, 301-311.	8.2	45
102	Characterizing solute binding to macroporous ion exchange membrane adsorbers using confocal laser scanning microscopy. Journal of Membrane Science, 2006, 281, 609-618.	8.2	44
103	Stimuliâ€“responsive track-etched membranes via surface-initiated controlled radical polymerization: Influence of grafting density and pore size. Journal of Membrane Science, 2011, 377, 124-133.	8.2	44
104	Syndiotactic polypropylene as potential material for the preparation of porous membranes via thermally induced phase separation (TIPS) process. Polymer, 2005, 46, 11582-11590.	3.8	43
105	Polymeric membrane fouling in sugarcane juice ultrafiltration: role of juice polysaccharides. Desalination, 2006, 189, 59-70.	8.2	43
106	Nano-hydroxyapatite-coated metal-ceramic composite of iron-tricalcium phosphate: Improving the surface wettability, adhesion and proliferation of mesenchymal stem cells in vitro. Colloids and Surfaces B: Biointerfaces, 2015, 135, 386-393.	5.0	41
107	Porous poly(vinylidene fluoride) membranes with tailored properties by fast and scalable non-solvent vapor induced phase separation. Journal of Membrane Science, 2019, 577, 69-78.	8.2	41
108	Synthesis and Characterization of Poly(ethylene glycol) Methacrylate Based Hydrogel Networks for Antiâ€Biofouling Applications. Macromolecular Materials and Engineering, 2013, 298, 967-980.	3.6	40

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109	Effect of synthesis composition on the swelling pressure of polymeric hydrogels. Polymer, 2009, 50, 2075-2080.	3.8	39
110	Cross-flow ultrafiltration of protein solutions through unmodified and surface functionalized polyethersulfone membranes â€“ Effect of process conditions on separation performance. Separation and Purification Technology, 2012, 92, 83-92.	7.9	39
111	ZnO-modified hybrid polymers as an antibacterial finish for textiles. Textile Reseach Journal, 2014, 84, 40-51.	2.2	39
112	Polyarylsulfone-based blend ultrafiltration membranes with combined size and charge selectivity for protein separation. Separation and Purification Technology, 2018, 193, 127-138.	7.9	39
113	Detailed analysis of membrane adsorber pore structure and protein binding by advanced microscopy. Journal of Membrane Science, 2008, 320, 456-467.	8.2	38
114	Functional coatings for anti-biofouling applications by surface segregation of block copolymer additives. Polymer, 2010, 51, 5910-5920.	3.8	38
115	Determination of pore size distributions of virus filtration membranes using gold nanoparticles and their correlation with virus retention. Journal of Membrane Science, 2017, 533, 289-301.	8.2	38
116	Hollow fiber membrane lumen modified by polyzwitterionic grafting. Journal of Membrane Science, 2017, 522, 1-11.	8.2	38
117	Three-Dimensional Analysis of the Natural-Organic-Matter Distribution in the Cake Layer to Precisely Reveal Ultrafiltration Fouling Mechanisms. Environmental Science & Technology, 2021, 55, 5442-5452.	10.0	38
118	Grafted Glycopolymer-Based Receptor Mimics on Polymer Support for Selective Adhesion of Bacteria. ACS Applied Materials & Interfaces, 2010, 2, 3555-3562.	8.0	37
119	Monoclonal antibody capture from cell culture supernatants using epitope imprinted macroporous membranes. RSC Advances, 2016, 6, 53162-53169.	3.6	37
120	Improved Antifouling Properties of Polydimethylsiloxane Films via Formation of Polysiloxane/Polyzwitterion Interpenetrating Networks. Macromolecular Rapid Communications, 2016, 37, 2030-2036.	3.9	37
121	Adhesion, proliferation, and osteogenic differentiation of human mesenchymal stem cells on additively manufactured Ti6Al4V alloy scaffolds modified with calcium phosphate nanoparticles. Colloids and Surfaces B: Biointerfaces, 2019, 176, 130-139.	5.0	37
122	High performance isotropic polyethersulfone membranes for heavy oil-in-water emulsion separation. Separation and Purification Technology, 2020, 253, 117467.	7.9	37
123	Preparation and characterization of porous anion-exchange membrane adsorbers with high protein-binding capacity. Journal of Membrane Science, 2008, 315, 155-163.	8.2	36
124	Toward remote-controlled valve functions via magnetically responsive capillary pore membranes. Journal of Membrane Science, 2012, 423-424, 257-266.	8.2	36
125	Magnetic Fe₃O₄ nanoparticle heaters in smart porous membrane valves. Journal of Materials Chemistry B, 2014, 2, 1317-1326.	5.8	35
126	Surface-selective photo-grafting on porous polymer membranes via a synergist immobilization method. Journal of Materials Chemistry, 2006, 16, 1860.	6.7	34

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127	Antibody-Imprinted Membrane Adsorber via Two-Step Surface Grafting. Biomacromolecules, 2013, 14, 4489-4496.	5.4	34
128	Poly(N,N-dimethylaminoethyl methacrylate) Brushes: pH-Dependent Switching Kinetics of a Surface-Grafted Thermoresponsive Polyelectrolyte. Langmuir, 2015, 31, 13426-13432.	3.5	34
129	Magnetoresponsive Poly(ether sulfone)-Based Iron Oxide cum Hydrogel Mixed Matrix Composite Membranes for Switchable Molecular Sieving. ACS Applied Materials & Interfaces, 2016, 8, 29001-29014.	8.0	34
130	Influence of pore structure and architecture of photo-grafted functional layers on separation performance of cellulose-based macroporous membrane adsorbers. Journal of Chromatography A, 2009, 1216, 6490-6501.	3.7	33
131	Isotropic macroporous polyethersulfone membranes as competitive supports for high performance polyamide desalination membranes. Journal of Membrane Science, 2015, 493, 782-793.	8.2	33
132	Surface wettability and energy effects on the biological performance of poly-3-hydroxybutyrate films treated with RF plasma. Materials Science and Engineering C, 2016, 62, 450-457.	7.3	33
133	Evaluation of molecularly imprinted polymer blend filtration membranes under solid phase extraction conditions. Separation and Purification Technology, 2004, 39, 211-219.	7.9	32
134	Routes towards catalytically active TiO₂doped porous cellulose. RSC Advances, 2015, 5, 35866-35873.	3.6	32
135	Immobilization of enzymes onto modified polyacrylonitrile membranes: Application of the acyl azide method. Journal of Applied Polymer Science, 1996, 60, 1147-1161.	2.6	31
136	Comparison of thin-layer and bulk MIPs synthesized by photoinitiatedin situ crosslinking polymerization from the same reaction mixtures. Journal of Applied Polymer Science, 2005, 98, 362-372.	2.6	31
137	Advanced ultrafiltration membranes based on functionalized poly(arylene ether sulfone) block copolymers. RSC Advances, 2013, 3, 12190.	3.6	31
138	Novel magneto-responsive membrane for remote control switchable molecular sieving. Journal of Materials Chemistry B, 2016, 4, 867-879.	5.8	31
139	High-performance positively charged hollow fiber nanofiltration membranes fabricated via green approach towards polyethyleneimine layer assembly. Separation and Purification Technology, 2020, 251, 117313.	7.9	31
140	Novel molecularly imprinted polymer (MIP) composite membranes via controlled surface and pore functionalizations. Desalination, 2002, 149, 293-295.	8.2	30
141	Tuning the nanofiltration performance of thin film strong polyelectrolyte hydrogel composite membranes by photo-grafting conditions. Journal of Membrane Science, 2013, 427, 129-138.	8.2	30
142	Macro-initiator mediated surface selective functionalization of ultrafiltration membranes with anti-fouling hydrogel layers applicable to ready-to-use capillary membrane modules. Journal of Membrane Science, 2016, 518, 328-337.	8.2	30
143	Controlling external versus internal pore modification of ultrafiltration membranes using surface-initiated AGET-ATRP. Journal of Membrane Science, 2018, 554, 109-116.	8.2	30
144	Electrochemical and Other Transport Properties of Nanoporous Track-Etched Membranes Studied by the Current Switch-Off Technique. Langmuir, 2005, 21, 6872-6882.	3.5	29

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145	Surface-Initiated Polymerization on Laser-Patterned Templates: Morphological Scaling of Nanoconfined Polymer Brushes. Langmuir, 2009, 25, 12393-12398.	3.5	29
146	How Do Polyethylene Glycol and Poly(sulfobetaine) Hydrogel Layers on Ultrafiltration Membranes Minimize Fouling and Stay Stable in Cleaning Chemicals?. Industrial & Engineering Chemistry Research, 2017, 56, 6785-6795.	3.7	29
147	Novel enzyme-membrane reactor for polysaccharide synthesis. Journal of Membrane Science, 1999, 161, 239-245.	8.2	28
148	Molecularly imprinted composite membranes for selective binding of desmetryn from aqueous solutions. Desalination, 2002, 149, 323-328.	8.2	27
149	Preparation of thermo-responsive polypropylene membranes via surface entrapment of poly(N-isopropylacrylamide)-containing macromolecules. Journal of Membrane Science, 2011, 372, 331-339.	8.2	27
150	Dispersions of Various Titania Nanoparticles in Two Different Ionic Liquids. Industrial & Engineering Chemistry Research, 2012, 51, 8425-8433.	3.7	27
151	Membrane-based purification of proteins from nanoparticle dispersions: Influences of membrane type and ultrafiltration conditions. Separation and Purification Technology, 2016, 158, 171-182.	7.9	27
152	Protein adsorbers from surface-grafted copolymers with selective binding sites. Journal of Materials Chemistry, 2009, 19, 253-260.	6.7	26
153	Effect of membrane hydrophilization on ultrafiltration performance for biomolecules separation. Materials Science and Engineering C, 2012, 32, 1759-1766.	7.3	26
154	Molecularly imprinted stimuli-responsive hydrogels for protein recognition. Polymer, 2012, 53, 4359-4366.	3.8	26
155	Method and Model for the Analysis of Gel-Blocking Effects during the Swelling of Polymeric Hydrogels. Industrial & Engineering Chemistry Research, 2007, 46, 359-364.	3.7	25
156	Preparation and Characterization of Novel Solvent-Resistant Nanofiltration Composite Membranes Based on Crosslinked Polyurethanes. Industrial & Engineering Chemistry Research, 2007, 46, 4891-4899.	3.7	25
157	Ultrafiltration membrane-based purification of bioconjugated gold nanoparticle dispersions. Separation and Purification Technology, 2016, 157, 120-130.	7.9	25
158	Polymerization of Glucans by Enzymatically Active Membranes. Biotechnology Progress, 2002, 18, 964-968.	2.6	24
159	Covalently coupled nanoparticles in capillary pores as enzyme carrier and as turbulence promoter to facilitate enzymatic polymerizations in flow-through enzymeâ€“membrane reactors. Journal of Membrane Science, 2006, 282, 413-422.	8.2	24
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