Merlin Bruening

List of Publications by Year
in descending order

154 papers	11,454 citations	19636 61 h-index	30058 103 g-index
158 all docs	158 docs citations	158 times ranked	9126 citing authors

#	Article	IF	Citations
1	Quantitation of Trastuzumab and an Antibody to SARS-CoV-2 in Minutes Using Affinity Membranes in 96-Well Plates. Analytical Chemistry, 2022, 94, 884-891.	3.2	9
2	Electrodialysis through nafion membranes coated with polyelectrolyte multilayers yields >99% pure monovalent ions at high recoveries. Journal of Membrane Science, 2022, 647, 120294.	4.1	25
3	Ion Separations Based on Spontaneously Arising Streaming Potentials in Rotating Isoporous Membranes. Membranes, 2022, 12, 631.	1.4	5
4	Highly Rectifying Fluidic Diodes Based on Asymmetric Layer-by-Layer Nanofilms on Nanochannel Membranes. Analytical Chemistry, 2021, 93, 4291-4298.	3.2	11
5	Electro-osmo-dialysis through nanoporous layers physically conjugated to micro-perforated ion-exchange membranes: Highly selective accumulation of trace coions. Journal of Membrane Science, 2021, 622, 119022.	4.1	4
6	Determination of the Serum Concentrations of the Monoclonal Antibodies Bevacizumab, Rituximab, and Panitumumab Using Porous Membranes Containing Immobilized Peptide Mimotopes. Analytical Chemistry, 2021, 93, 7562-7570.	3.2	11
7	Electroblotting through Enzymatic Membranes to Enhance Molecular Tissue Imaging. Journal of the American Society for Mass Spectrometry, 2021, 32, 1689-1699.	1.2	3
8	Highly selective ion separations based on counter-flow electromigration in nanoporous membranes. Journal of Membrane Science, 2021, 638, 119684.	4.1	13
9	Oil droplet behavior on model nanofiltration membrane surfaces under conditions of hydrodynamic shear and salinity. Journal of Colloid and Interface Science, 2020, 560, 247-259.	5.0	14
10	Ion separations with membranes. Journal of Polymer Science, 2020, 58, 2831-2856.	2.0	52
11	Electroblotting through a tryptic membrane for LC-MS/MS analysis of proteins separated in electrophoretic gels. Analyst, The, 2020, 145, 7724-7735.	1.7	3
12	Flow through negatively charged, nanoporous membranes separates Li⁺ and K⁺ due to induced electromigration. Chemical Communications, 2020, 56, 10954-10957.	2.2	26
13	Membrane-Based Affinity Purification to Identify Target Proteins of a Small-Molecule Drug. Analytical Chemistry, 2020, 92, 11912-11920.	3.2	8
14	Moderate pH changes alter the fluxes, selectivities and limiting currents in ion transport through polyelectrolyte multilayers deposited on membranes. Journal of Membrane Science, 2020, 616, 118570.	4.1	25
15	Currentâ€Induced Ion Concentration Polarization at a Perfect Ionâ€Exchange Patch in an Infinite Insulating Wall. ChemElectroChem, 2020, 7, 1480-1498.	1.7	3
16	A Limiting Case of Constant Counterion Electrochemical Potentials in the Membrane for Examining Ion Transfer at Ion-Exchange Membranes and Patches. Langmuir, 2019, 35, 13243-13256.	1.6	4
17	Rapid screening and scaleâ€up of ultracentrifugationâ€free, membraneâ€based procedures for purification of Hisâ€tagged membrane proteins. Biotechnology Progress, 2019, 35, e2859.	1.3	9
18	Modelling nanofiltration of electrolyte solutions. Advances in Colloid and Interface Science, 2019, 268, 39-63.	7.0	78

#	Article	IF	Citations
19	Highly Selective Currentâ€Induced Accumulation of Trace Ions at Microâ€/NanoPorous Interfaces. Advanced Theory and Simulations, 2019, 2, 1900009.	1.3	4
20	Layer-by-layer modification of aliphatic polyamide anion-exchange membranes to increase Clâ^'/SO42â^' selectivity. Journal of Membrane Science, 2019, 578, 209-219.	4.1	52
21	Porous star-star polyelectrolyte multilayers for protein binding. Polymer, 2018, 138, 267-274.	1.8	11
22	Aqueous Swelling of Zwitterionic Poly(sulfobetaine methacrylate) Brushes in the Presence of Ionic Surfactants. Macromolecules, 2018, 51, 1161-1171.	2.2	20
23	High Selectivities among Monovalent Cations in Dialysis through Cation-Exchange Membranes Coated with Polyelectrolyte Multilayers. ACS Applied Materials & Interfaces, 2018, 10, 44134-44143.	4.0	37
24	Monoclonal Antibody Capture and Analysis Using Porous Membranes Containing Immobilized Peptide Mimotopes. Analytical Chemistry, 2018, 90, 12161-12167.	3.2	16
25	Enzyme-containing spin membranes for rapid digestion and characterization of single proteins. Analyst, The, 2018, 143, 3907-3917.	1.7	6
26	Adsorption of polyelectrolyte multilayers imparts high monovalent/divalent cation selectivity to aliphatic polyamide cation-exchange membranes. Journal of Membrane Science, 2017, 537, 177-185.	4.1	45
27	Limited proteolysis in porous membrane reactors containing immobilized trypsin. Analyst, The, 2017, 142, 2578-2586.	1.7	19
28	An analytical solution of the solution-diffusion-electromigration equations reproduces trends in ion rejections during nanofiltration of mixed electrolytes. Journal of Membrane Science, 2017, 523, 361-372.	4.1	35
29	Layer-by-Layer Deposition with Polymers Containing Nitrilotriacetate, A Convenient Route to Fabricate Metal- and Protein-Binding Films. ACS Applied Materials & Interfaces, 2016, 8, 10164-10173.	4.0	20
30	Elution Is a Critical Step for Recovering Human Adenovirus 40 from Tap Water and Surface Water by Cross-Flow Ultrafiltration. Applied and Environmental Microbiology, 2016, 82, 4982-4993.	1.4	20
31	Dynamic crossflow filtration with a rotating tubular membrane: Using centripetal force to decrease fouling by buoyant particles. Chemical Engineering Research and Design, 2016, 106, 101-114.	2.7	24
32	Highly selective separations of multivalent and monovalent cations in electrodialysis through Nafion membranes coated with polyelectrolyte multilayers. Polymer, 2016, 103, 478-485.	1.8	69
33	Deviations from Electroneutrality in Membrane Barrier Layers: A Possible Mechanism Underlying High Salt Rejections. Langmuir, 2016, 32, 2644-2658.	1.6	15
34	Sacrificial polyelectrolyte multilayer coatings as an approach to membrane fouling control: Disassembly and regeneration mechanisms. Journal of Membrane Science, 2015, 491, 149-158.	4.1	29
35	Functionalizing Microporous Membranes for Protein Purification and Protein Digestion. Annual Review of Analytical Chemistry, 2015, 8, 81-100.	2.8	11
36	Rapid Protein Digestion and Purification with Membranes Attached to Pipet Tips. Analytical Chemistry, 2015, 87, 11984-11989.	3.2	17

#	Article	IF	Citations
37	Immobilization of Carboxymethylated Polyethylenimineâ€“Metal-Ion Complexes in Porous Membranes to Selectively Capture His-Tagged Protein. ACS Applied Materials & Interfaces, 2015, 7, 2575-2584.	4.0	25
38	Coating of Nafion Membranes with Polyelectrolyte Multilayers to Achieve High Monovalent/Divalent Cation Electrodialysis Selectivities. ACS Applied Materials & Interfaces, 2015, 7, 6620-6628.	4.0	154
39	Adsorption of Anionic or Cationic Surfactants in Polyanionic Brushes and Its Effect on Brush Swelling and Fouling Resistance during Emulsion Filtration. Langmuir, 2015, 31, 11790-11799.	1.6	21
40	Pepsin-Containing Membranes for Controlled Monoclonal Antibody Digestion Prior to Mass Spectrometry Analysis. Analytical Chemistry, 2015, 87, 10942-10949.	3.2	29
41	Facilitated ion transport through polyelectrolyte multilayer films containing metal-binding ligands. Journal of Membrane Science, 2014, 459, 169-176.	4.1	30
42	Polyelectrolyte multilayers as anti-adhesive membrane coatings for virus concentration and recovery. Journal of Membrane Science, 2014, 469, 140-150.	4.1	20
43	Cation separations in electrodialysis through membranes coated with polyelectrolyte multilayers. Polymer, 2014, 55, 1397-1403.	1.8	46
44	Separation of Ions Using Polyelectrolyte-Modified Nanoporous Track-Etched Membranes. Langmuir, 2013, 29, 10287-10296.	1.6	41
45	Solution-Diffusionâ€“Electro-Migration model and its uses for analysis of nanofiltration, pressure-retarded osmosis and forward osmosis in multi-ionic solutions. Journal of Membrane Science, 2013, 447, 463-476.	4.1	75
46	Layer-by-Layer Assembly of Thick, Cu²⁺-Chelating Films. Langmuir, 2013, 29, 12720-12729.	1.6	28
47	Phosphopeptide Enrichment with TiO₂-Modified Membranes and Investigation of Tau Protein Phosphorylation. Analytical Chemistry, 2013, 85, 5699-5706.	3.2	39
48	Fundamentals of Selective Ion Transport through Multilayer Polyelectrolyte Membranes. Langmuir, 2013, 29, 1885-1892.	1.6	96
49	Increased Protein Sorption in Poly(acrylic acid)-Containing Films through Incorporation of Comb-Like Polymers and Film Adsorption at Low pH and High Ionic Strength. Langmuir, 2013, 29, 2946-2954.	1.6	36
50	Wet Air Oxidation of Formic Acid Using Nanoparticle-Modified Polysulfone Hollow Fibers as Gasâ€“Liquid Contactors. ACS Applied Materials & Interfaces, 2012, 4, 1440-1448.	4.0	5
51	Formation of High-Capacity Protein-Adsorbing Membranes through Simple Adsorption of Poly(acrylic) Tj ETQq1 1 0.784314 rgBT /Ove	1.6	47
52	Limited Proteolysis via Millisecond Digestions in Protease-Modified Membranes. Analytical Chemistry, 2012, 84, 8357-8363.	3.2	27
53	An all-aqueous route to polymer brush-modified membranes with remarkable permeabilites and protein capture rates. Journal of Membrane Science, 2012, 389, 117-125.	4.1	33
54	Polymer Brush-Modified Magnetic Nanoparticles for His-Tagged Protein Purification. Langmuir, 2011, 27, 3106-3112.	1.6	113

#	Article	IF	Citations
55	Facile Synthesis of Thick Films of Poly(methyl methacrylate), Poly(styrene), and Poly(vinyl pyridine) from Au Surfaces. ACS Applied Materials & Interfaces, 2011, 3, 3042-3048.	4.0	26
56	Bifunctional polymer brushes for low-bias enrichment of mono- and multi-phosphorylated peptides prior to mass spectrometry analysis. Analyst, The, 2011, 136, 3595.	1.7	17
57	Techniques for phosphopeptide enrichment prior to analysis by mass spectrometry. Mass Spectrometry Reviews, 2010, 29, 29-54.	2.8	168
58	Polyelectrolyte multilayer films as backflushable nanofiltration membranes with tunable hydrophilicity and surface charge. Journal of Membrane Science, 2010, 349, 268-278.	4.1	75
59	Ion-exchange membranes prepared using layer-by-layer polyelectrolyte deposition. Journal of Membrane Science, 2010, 354, 198-205.	4.1	52
60	Catalytic hollow fiber membranes prepared using layer-by-layer adsorption of polyelectrolytes and metal nanoparticles. Catalysis Today, 2010, 156, 100-106.	2.2	77
61	Crystallization kinetics of polymer brushes with poly(ethylene oxide) side chains. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1955-1959.	2.4	11
62	Facile Trypsin Immobilization in Polymeric Membranes for Rapid, Efficient Protein Digestion. Analytical Chemistry, 2010, 82, 10045-10051.	3.2	82
63	Effects of Monomer Composition on CO₂â^'Selective Polymer Brush Membranes. Chemistry of Materials, 2010, 22, 4026-4033.	3.2	20
64	Protein Purification with Polymeric Affinity Membranes Containing Functionalized Poly(acid) Brushes. Biomacromolecules, 2010, 11, 1019-1026.	2.6	56
65	Identification of p65-Associated Phosphoproteins by Mass Spectrometry after On-Plate Phosphopeptide Enrichment Using Polymer-oxotitanium Films. Journal of Proteome Research, 2010, 9, 3005-3015.	1.8	18
66	Just spray it. Nature Materials, 2009, 8, 449-450.	13.3	53
67	Recovery of phosphate using multilayer polyelectrolyte nanofiltration membranes. Journal of Membrane Science, 2009, 327, 2-5.	4.1	90
68	Wet air oxidation with tubular ceramic membranes modified with polyelectrolyte/Pt nanoparticle films. Applied Catalysis B: Environmental, 2009, 91, 180-188.	10.8	29
69	Applications of Polymer Brushes in Protein Analysis and Purification. Annual Review of Analytical Chemistry, 2009, 2, 387-408.	2.8	96
70	Variation of Ion-Exchange Capacity, Î¶ Potential, and Ion-Transport Selectivities with the Number of Layers in a Multilayer Polyelectrolyte Film. Langmuir, 2009, 25, 7478-7485.	1.6	70
71	Nanoparticle-Containing Membranes for the Catalytic Reduction of Nitroaromatic Compounds. Langmuir, 2009, 25, 1865-1871.	1.6	142
72	Phosphopeptide enrichment on functionalized polymer microspots for MALDI-MS analysis. Analyst, The, 2009, 134, 512-518.	1.7	31

#	Article	IF	Citations
73	Selectivity as a Function of Nanoparticle Size in the Catalytic Hydrogenation of Unsaturated Alcohols. Journal of the American Chemical Society, 2009, 131, 3601-3610.	6.6	75
74	Effect of filler incorporation route on the properties of polysulfoneâ€“silver nanocomposite membranes of different porosities. Journal of Membrane Science, 2008, 325, 58-68.	4.1	262
75	Multilayer polyelectrolyte films as nanofiltration membranes for separating monovalent and divalent cations. Journal of Membrane Science, 2008, 310, 76-84.	4.1	267
76	Selective Hydrogenation of Monosubstituted Alkenes by Pd Nanoparticles Embedded in Polyelectrolyte Films. Langmuir, 2008, 24, 2916-2920.	1.6	55
77	Creation of Functional Membranes Using Polyelectrolyte Multilayers and Polymer Brushes. Langmuir, 2008, 24, 7663-7673.	1.6	229
78	Rapid Synthesis of Functional Polymer Brushes by Surface-Initiated Atom Transfer Radical Polymerization of an Acidic Monomer. Macromolecules, 2008, 41, 8413-8417.	2.2	47
79	Phosphopeptide Enrichment Using MALDI Plates Modified with High-Capacity Polymer Brushes. Analytical Chemistry, 2008, 80, 5727-5735.	3.2	63
80	High-Capacity Purification of His-tagged Proteins by Affinity Membranes Containing Functionalized Polymer Brushes. Biomacromolecules, 2007, 8, 3102-3107.	2.6	108
81	Separation of Fluoride from Other Monovalent Anions Using Multilayer Polyelectrolyte Nanofiltration Membranes. Langmuir, 2007, 23, 1716-1722.	1.6	99
82	Completely Aqueous Procedure for the Growth of Polymer Brushes on Polymeric Substrates. Langmuir, 2007, 23, 11360-11365.	1.6	49
83	Crystallization of Polymer Brushes with Poly(ethylene oxide) Side Chains. Macromolecules, 2007, 40, 8212-8219.	2.2	54
84	Catalytic Membranes Prepared Using Layer-by-Layer Adsorption of Polyelectrolyte/Metal Nanoparticle Films in Porous Supports. Nano Letters, 2006, 6, 2268-2272.	4.5	365
85	High-Capacity Binding of Proteins by Poly(Acrylic Acid) Brushes and Their Derivatives. Langmuir, 2006, 22, 4274-4281.	1.6	154
86	Use of Porous Membranes Modified with Polyelectrolyte Multilayers as Substrates for Protein Arrays with Low Nonspecific Adsorption. Analytical Chemistry, 2006, 78, 135-140.	3.2	117
87	Control of the Density of Polymer Brushes Prepared by Surface-Initiated Atom Transfer Radical Polymerization. Macromolecules, 2006, 39, 5251-5258.	2.2	81
88	Removal of Dyes, Sugars, and Amino Acids from NaCl Solutions Using Multilayer Polyelectrolyte Nanofiltration Membranes. Industrial & Engineering Chemistry Research, 2006, 45, 6284-6288.	1.8	62
89	Rapid Growth of Polymer Brushes from Immobilized Initiators. Journal of the American Chemical Society, 2006, 128, 9056-9060.	6.6	59
90	Detection of Phosphopeptides Using Fe(III)â^'Nitrilotriacetate Complexes Immobilized on a MALDI Plate. Analytical Chemistry, 2006, 78, 1574-1580.	3.2	74

#	Article	IF	Citations
91	High-Capacity, Protein-Binding Membranes Based on Polymer Brushes Grown in Porous Substrates. Chemistry of Materials, 2006, 18, 4033-4039.	3.2	123
92	Separation of amino acid mixtures using multilayer polyelectrolyte nanofiltration membranes. Journal of Membrane Science, 2006, 280, 1-5.	4.1	91
93	Optimization of flux and selectivity in Clâ¯/SO42â¯ separations with multilayer polyelectrolyte membranes. Journal of Membrane Science, 2006, 283, 366-372.	4.1	92
94	High-Flux Nanofiltration Membranes Prepared by Adsorption of Multilayer Polyelectrolyte Membranes on Polymeric Supports. Langmuir, 2005, 21, 10587-10592.	1.6	188
95	Polymer Brush Membranes for Pervaporation of Organic Solvents from Water. Macromolecules, 2005, 38, 2307-2314.	2.2	61
96	Multilayered Polyelectrolyte Films Containing Palladium Nanoparticles:â€‰ Synthesis, Characterization, and Application in Selective Hydrogenation. Chemistry of Materials, 2005, 17, 301-307.	3.2	166
97	Correlation of the Swelling and Permeability of Polyelectrolyte Multilayer Films. Chemistry of Materials, 2005, 17, 5375-5381.	3.2	167
98	Bottle Brush Brushes: Ring-Opening Polymerization of Lactide from Poly(hydroxyethyl methacrylate) Surfaces. , 2005, , 105-117.		3
99	Polymer-brush stationary phases for open-tubular capillary electrochromatography. Journal of Chromatography A, 2004, 1044, 323-330.	1.8	53
100	Size-Selective Transport of Uncharged Solutes through Multilayer Polyelectrolyte Membranes. Chemistry of Materials, 2004, 16, 351-357.	3.2	163
101	Selective Hydrogenation by Pd Nanoparticles Embedded in Polyelectrolyte Multilayers. Journal of the American Chemical Society, 2004, 126, 2658-2659.	6.6	286
102	Controlling the Nanofiltration Properties of Multilayer Polyelectrolyte Membranes through Variation of Film Composition. Langmuir, 2004, 20, 11545-11551.	1.6	116
103	Use of Polymer-Modified MALDI-MS Probes To Improve Analyses of Protein Digests and DNA. Analytical Chemistry, 2004, 76, 3106-3111.	3.2	32
104	Formation of Composite Membranes with Ultrathin Skins Using New Methods of Organic Film Formation: Gas-Selective Membranes. ACS Symposium Series, 2004, , 269-280.	0.5	1
105	Non-specific, on-probe cleanup methods for MALDI-MS samples. Mass Spectrometry Reviews, 2003, 22, 429-440.	2.8	94
106	Preparation of composite membranes by atom transfer radical polymerization initiated from a porous support. Journal of Membrane Science, 2003, 227, 1-14.	4.1	81
107	Kinetics of surface-initiated atom transfer radical polymerization. Journal of Polymer Science Part A, 2003, 41, 386-394.	2.5	131
108	pH-Dependent Growth and Morphology of Multilayer Dendrimer/Poly(acrylic acid) Films. Langmuir, 2003, 19, 94-99.	1.6	52

#	Article	IF	Citations
109	Ultrathin, Multilayered Polyelectrolyte Films as Nanofiltration Membranes. Langmuir, 2003, 19, 7038-7042.	1.6	246
110	Ultrathin, Gas-Selective Polyimide Membranes Prepared from Multilayer Polyelectrolyte Films. Chemistry of Materials, 2003, 15, 281-287.	3.2	87
111	Spontaneous Vesicle Formation from Poly(1,2-butylene oxide) Sulfate Oligomers. Langmuir, 2003, 19, 5550-5552.	1.6	3
112	Preparation of amphiphilic triblock copolymer brushes for surface patterning. Nanotechnology, 2003, 14, 1075-1080.	1.3	25
113	Patterned Monolayer/Polymer Films for Analysis of Dilute or Salt-Contaminated Protein Samples by MALDI-MS. Analytical Chemistry, 2003, 75, 185-190.	3.2	73
114	Formation of Multilamellar Vesicles from Ethylene Oxide-l,2-Butylene Oxide Diblock Copolymers. ACS Symposium Series, 2003, , 328-345.	0.5	0
115	Spontaneous Generation of Multilamellar Vesicles from Ethylene Oxide/Butylene Oxide Diblock Copolymers. Langmuir, 2002, 18, 5337-5342.	1.6	55
116	Controlling Ion Transport through Multilayer Polyelectrolyte Membranes by Derivatization with Photolabile Functional Groups. Macromolecules, 2002, 35, 3164-3170.	2.2	52
117	Functionalization of Surfaces by Water-Accelerated Atom-Transfer Radical Polymerization of Hydroxyethyl Methacrylate and Subsequent Derivatization. Macromolecules, 2002, 35, 1175-1179.	2.2	281
118	Esterification and Ether Formation at a Hydroxyl-Terminated Self-Assembled Monolayer Surface Using Low-Energy Collisions of Polyatomic Cations. Langmuir, 2002, 18, 4799-4808.	1.6	21
119	Control of Teflon AF 2400 Permeability in a Liquid-Core Waveguide by an Ultra-Thin Crosslinked Polyamide Coating. Applied Spectroscopy, 2002, 56, 574-578.	1.2	9
120	Catalytic Nanoparticles Formed by Reduction of Metal Ions in Multilayered Polyelectrolyte Films. Nano Letters, 2002, 2, 497-501.	4.5	342
121	Synthesis of Triblock Copolymer Brushes by Surface-Initiated Atom Transfer Radical Polymerization. Macromolecules, 2002, 35, 5410-5416.	2.2	97
122	Enhancing the Anion-Transport Selectivity of Multilayer Polyelectrolyte Membranes by Templating with Cu2+. Macromolecules, 2002, 35, 3171-3178.	2.2	101
123	Enhancing the Ion-Transport Selectivity of Multilayer Polyelectrolyte Membranes. Chemistry - A European Journal, 2002, 8, 3832-3837.	1.7	48
124	Ultrathin, Ion-Selective Polyimide Membranes Prepared from Layered Polyelectrolytes. Journal of the American Chemical Society, 2001, 123, 11805-11806.	6.6	67
125	Controlling the Permeability of Multilayered Polyelectrolyte Films through Derivatization, Cross-Linking, and Hydrolysis. Langmuir, 2001, 17, 931-937.	1.6	131
126	Surface-Initiated Thermal Radical Polymerization on Gold. Langmuir, 2001, 17, 1731-1736.	1.6	63

#	Article	IF	Citations
127	Enhancement of the Ion-Transport Selectivity of Layered Polyelectrolyte Membranes through Cross-Linking and Hybridization. Chemistry of Materials, 2001, 13, 2641-2648.	3.2	102
128	Formation of Ultrathin, Defect-Free Membranes by Grafting of Poly(acrylic acid) onto Layered Polyelectrolyte Films. Langmuir, 2001, 17, 8236-8241.	1.6	28
129	Controlled Synthesis of Cross-Linked Ultrathin Polymer Films by Using Surface-Initiated Atom Transfer Radical Polymerization. Angewandte Chemie - International Edition, 2001, 40, 1510-1512.	7.2	88
130	Detection of Protamine and Heparin Using Electrodes Modified with Poly(acrylic acid) and Its Amine Derivative. Electroanalysis, 2001, 13, 1447-1453.	1.5	20
131	Layered Polyelectrolyte Films as Selective, Ultrathin Barriers for Anion Transport. Chemistry of Materials, 2000, 12, 1941-1946.	3.2	194
132	Ultrathin, Layered Polyamide and Polyimide Coatings on Aluminum. Industrial & Engineering Chemistry Research, 2000, 39, 3528-3535.	1.8	54
133	Surface-Initiated Atom Transfer Radical Polymerization on Gold at Ambient Temperature. Journal of the American Chemical Society, 2000, 122, 7616-7617.	6.6	277
134	Ultrathin, Hyperbranched Poly(acrylic acid) Membranes on Porous Alumina Supports. Journal of the American Chemical Society, 2000, 122, 11670-11678.	6.6	57
135	Electrochemical and in Situ Ellipsometric Investigation of the Permeability and Stability of Layered Polyelectrolyte Films. Langmuir, 2000, 16, 2006-2013.	1.6	297
136	Synthesis of Passivating, Nylon-Like Coatings through Cross-Linking of Ultrathin Polyelectrolyte Films. Journal of the American Chemical Society, 1999, 121, 1978-1979.	6.6	308
137	Aqueous Solvation and Functionalization of Weak-Acid Polyelectrolyte Thin Films. Langmuir, 1998, 14, 4232-4237.	1.6	43
138	Synthesis and Characterization of Surface-Grafted, Hyperbranched Polymer Films Containing Fluorescent, Hydrophobic, Ion-Binding, Biocompatible, and Electroactive Groups. Langmuir, 1997, 13, 770-778.	1.6	138
139	Simultaneous Control of Surface Potential and Wetting of Solids with Chemisorbed Multifunctional Ligands. Journal of the American Chemical Society, 1997, 119, 5720-5728.	6.6	89
140	Inhibition of Electrochemical Reactions at Gold Surfaces by Grafted, Highly Fluorinated, Hyperbranched Polymer Films. Langmuir, 1997, 13, 1388-1391.	1.6	62
141	Multilayer Dendrimerâ€“Polyanhydride Composite Films on Glass, Silicon, and Gold Wafers. Angewandte Chemie International Edition in English, 1997, 36, 2114-2116.	4.4	93
142	Synthesis of Hyperbranched, Hydrophilic Fluorinated Surface Grafts. Langmuir, 1996, 12, 5519-5521.	1.6	49
143	Preparation of Hyperbranched Polymer Films Grafted on Self-Assembled Monolayers. Journal of the American Chemical Society, 1996, 118, 3773-3774.	6.6	140
144	Electron transfer in hybrid molecular solid-state devices. Synthetic Metals, 1996, 76, 245-248.	2.1	21

#	Article	IF	Citations
145	Solid phase extraction of ions using molecular recognition technology. Pure and Applied Chemistry, 1995, 67, 1069-1074.	0.9	51
146	Polar Ligand Adsorption Controls Semiconductor Surface Potentials. Journal of the American Chemical Society, 1994, 116, 2972-2977.	6.6	98
147	Thioaromatic monolayers on gold: a new family of self-assembling monolayers. Langmuir, 1993, 9, 2974-2981.	1.6	436
148	Molecular Approach to Surface Control of Chalcogenide Semiconductors. Japanese Journal of Applied Physics, 1993, 32, 730.	0.8	4
149	Quantitation of cation binding by silica gel bound thiamacrocycles and the design of highly selective concentration and purification columns for palladium(II), gold(III), silver(I), and mercury(II). Analytical Chemistry, 1991, 63, 1014-1017.	3.2	38
150	Effect of organic solvent and anion type on cation binding constants with silica gel bound macrocycles and their use in designing selective concentrator columns. Analytical Chemistry, 1991, 63, 21-24.	3.2	57
151	Macrocycle-metal cation interactions involving polyaza macrocycles bonded to silica gel via a nitrogen donor atom. Pure and Applied Chemistry, 1990, 62, 1115-1118.	0.9	33
152	Modeling diffusion-limited, neutral-macrocycle-mediated cation transport in supported liquid membranes. Analytical Chemistry, 1989, 61, 1140-1148.	3.2	51
153	Removal and separation of metal ions from aqueous solutions using a silica-gel-bonded macrocycle system. Analytical Chemistry, 1988, 60, 1825-1826.	3.2	69
154	Controlling the Ion-Permeability of Layered Polyelectrolyte Films and Membranes. , 0, , 487-510.		1