Giorgio Carta

List of Publications by Year
in descending order

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149 papers	4,786 citations	76326 40 h-index	149698 56 g-index
172 all docs	172 docs citations	172 times ranked	2064 citing authors

#	Article	IF	Citations
1	Protein Adsorption on Cation Exchangers: Comparison of Macroporous and Gel-Composite Media. Biotechnology Progress, 1996, 12, 342-355.	2.6	190
2	Protein adsorption and transport in agarose and dextran-grafted agarose media for ion exchange chromatography. Journal of Chromatography A, 2007, 1146, 202-215.	3.7	132
3	Uptake of phenylalanine and tyrosine by a strong-acid cation exchanger. AICHE Journal, 1989, 35, 53-68.	3.6	112
4	Enzymatic synthesis of esters using an immobilized lipase. Biotechnology and Bioengineering, 1991, 37, 1004-1009.	3.3	106
5	Characterization of protein adsorption by composite silica-polyacrylamide gel anion exchangers I. Equilibrium and mass transfer in agitated contactors. Journal of Chromatography A, 1996, 746, 169-183.	3.7	93
6	Diffusion and convection in chromatographic processes using permeable supports with a bidisperse pore structure. Chemical Engineering Science, 1993, 48, 3927-3935.	3.8	89
7	Protein adsorption and transport in agarose and dextran-grafted agarose media for ion exchange chromatography: Effect of ionic strength and protein characteristics. Journal of Chromatography A, 2009, 1216, 4465-4474.	3.7	81
8	IgG adsorption on a new protein A adsorbent based on macroporous hydrophilic polymers. I. Adsorption equilibrium and kinetics. Journal of Chromatography A, 2009, 1216, 8339-8347.	3.7	77
9	Rapid monoclonal antibody adsorption on dextran-grafted agarose media for ion-exchange chromatography. Journal of Chromatography A, 2008, 1211, 70-79.	3.7	76
10	Fatty acid esterification using nylon-immobilized lipase. Biotechnology and Bioengineering, 1995, 48, 601-605.	3.3	73
11	Temperature Dependence of the Dissociation Constants of Several Amino Acids. Journal of Chemical & Engineering Data, 2008, 53, 619-627.	1.9	72
12	pH transitions in cation exchange chromatographic columns containing weak acid groups. Journal of Chromatography A, 2007, 1142, 19-31.	3.7	70
13	Chromatography with permeable supports: Theory and comparison with experiments. Separation and Purification Technology, 1992, 2, 62-72.	0.7	67
14	Protein adsorption on novel acrylamido-based polymeric ion exchangers. Journal of Chromatography A, 2000, 897, 81-97.	3.7	67
15	Exact analytic solution of a mathematical model for chromatographic operations. Chemical Engineering Science, 1988, 43, 2877-2883.	3.8	66
16	Binary protein adsorption on gel-composite ion-exchange media. AICHE Journal, 1999, 45, 512-522.	3.6	59
17	Protein adsorption on novel acrylamido-based polymeric ion-exchangers. Journal of Chromatography A, 2002, 971, 105-116.	3.7	59
18	Unfolding and aggregation of a glycosylated monoclonal antibody on a cation exchange column. Part I. Chromatographic elution and batch adsorption behavior. Journal of Chromatography A, 2014, 1356, 117-128.	3.7	59

#	Article	IF	Citations
19	Characterization of protein adsorption by composite silica-polyacrylamide gel anion exchangers II. Mass transfer in packed columns and predictability of breakthrough behavior. Journal of Chromatography A, 1996, 746, 185-198.	3.7	58
20	Adsorption of deamidated antibody variants on macroporous and dextran-grafted cation exchangers: I. Adsorption equilibrium. Journal of Chromatography A, 2011, 1218, 1519-1529.	3.7	58
21	Equilibrium sorption of amino acids by a cation-exchange resin. Industrial & Engineering Chemistry Research, 1990, 29, 849-857.	3.7	57
22	Two-component protein adsorption kinetics in porous ion exchange media. Journal of Chromatography A, 2005, 1079, 105-115.	3.7	57
23	Adsorption kinetics of deamidated antibody variants on macroporous and dextran-grafted cation exchangers. III. Microscopic studies. Journal of Chromatography A, 2011, 1218, 8027-8035.	3.7	57
24	Protein adsorption on novel acrylamido-based polymeric ion-exchangers. Journal of Chromatography A, 2000, 897, 65-80.	3.7	54
25	Patterns of protein adsorption in chromatographic particles visualized by optical microscopy. Journal of Chromatography A, 2007, 1160, 206-214.	3.7	54
26	Unfolding and aggregation of monoclonal antibodies on cation exchange columns: Effects of resin type, load buffer, and protein stability. Journal of Chromatography A, 2015, 1388, 184-194.	3.7	54
27	Ion exchange of amino acids and dipeptides on cation resins with varying degree of crosslinking. 1. Equilibrium. Industrial & Engineering Chemistry Research, 1993, 32, 107-117.	3.7	53
28	Protein separations with induced pH gradients using cation-exchange chromatographic columns containing weak acid groups. Journal of Chromatography A, 2008, 1181, 83-94.	3.7	53
29	Displacement separations by continuous annular chromatography. AICHE Journal, 1990, 36, 1220-1228.	3.6	51
30	Properties and performance of novel high-resolution/high-permeability ion-exchange media for protein chromatography. Journal of Chromatography A, 2005, 1069, 43-52.	3.7	51
31	Unfolding and aggregation of a glycosylated monoclonal antibody on a cation exchange column. Part II. Protein structure effects by hydrogen deuterium exchange mass spectrometry. Journal of Chromatography A, 2014, 1356, 129-137.	3.7	51
32	Effects of bovine serum albumin heterogeneity on frontal analysis with anion-exchange media. Journal of Chromatography A, 2001, 937, 13-19.	3.7	50
33	Adsorption of deamidated antibody variants on macroporous and dextran-grafted cation exchangers: II. Adsorption kinetics. Journal of Chromatography A, 2011, 1218, 1530-1537.	3.7	50
34	Protein and virus-like particle adsorption on perfusion chromatography media. Journal of Chromatography A, 2013, 1297, 96-105.	3.7	50
35	Protein adsorption and transport in cation exchangers with a rigid backbone matrix with and without polymeric surface extenders. Biotechnology Progress, 2011, 27, 1264-1272.	2.6	48
36	Protein adsorption equilibrium and kinetics in multimodal cation exchange resins. Adsorption, 2016, 22, 165-179.	3.0	47

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37	Synthesis of esters using a nylon-immobilized lipase in batch and continuous reactors. Enzyme and Microbial Technology, 1992, 14, 904-910.	3.2	46
38	Continuous separation of proteins by annular chromatography. Industrial & Engineering Chemistry Research, 1991, 30, 1061-1067.	3.7	45
39	Asymmetric Reduction of Acetophenone with Calcium-Alginate-Entrapped Baker's Yeast in Organic Solvents. Biotechnology Progress, 1998, 14, 588-593.	2.6	43
40	Protein Transport in Constrained Anionic Hydrogels:â€‰ Diffusion and Boundary-Layer Mass Transfer. Industrial & Engineering Chemistry Research, 2001, 40, 1548-1558.	3.7	42
41	Particle-size distribution effects in batch adsorption. AICHE Journal, 2003, 49, 3066-3073.	3.6	42
42	Modeling multicomponent adsorption of monoclonal antibody charge variants in cation exchange columns. AICHE Journal, 2012, 58, 2503-2511.	3.6	42
43	Ion exchange of amino acids and dipeptides on cation resins with varying degree of crosslinking. 2. Intraparticle transport. Industrial & Engineering Chemistry Research, 1993, 32, 117-125.	3.7	41
44	Radiotracer measurements of protein mass transfer: Kinetics in ion exchange media. Biotechnology Journal, 2006, 1, 665-674.	3.5	41
45	Protein Adsorption and Desorption on Gel-Filled Rigid Particles for Ion Exchange. Industrial & Engineering Chemistry Research, 1998, 37, 1079-1087.	3.7	40
46	Asymmetric Ketone Reduction with Immobilized Yeast in Hexane: Biocatalyst Deactivation and Regeneration. Biotechnology Progress, 2001, 17, 304-310.	2.6	40
47	Predicting protein dynamic binding capacity from batch adsorption tests. Biotechnology Journal, 2012, 7, 1216-1220.	3.5	40
48	Protein diffusion in charged polyacrylamide gels. Journal of Chromatography A, 1999, 865, 155-168.	3.7	39
49	Particle size effects on protein and virus-like particle adsorption on perfusion chromatography media. Journal of Chromatography A, 2015, 1375, 92-100.	3.7	37
50	Separation of protein charge variants with induced pH gradients using anion exchange chromatographic columns. Biotechnology Progress, 2008, 24, 1096-1106.	2.6	36
51	Mesh Size of Charged Polyacrylamide Hydrogels from Partitioning Measurements. Industrial & Engineering Chemistry Research, 2005, 44, 8213-8217.	3.7	35
52	Theory and applications of refractive index-based optical microscopy to measure protein mass transfer in spherical adsorbent particles. Journal of Chromatography A, 2008, 1188, 242-254.	3.7	35
53	Adsorption equilibrium and kinetics of monomerâ€“dimer monoclonal antibody mixtures on a cation exchange resin. Journal of Chromatography A, 2015, 1402, 46-59.	3.7	35
54	Separation of antibody monomer-dimer mixtures by frontal analysis. Journal of Chromatography A, 2017, 1500, 96-104.	3.7	34

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55	Sugar separations on a pilot scale by continuous annular chromatography. Biotechnology Progress, 1990, 6, 13-20.	2.6	33
56	Analytic solution for chromatography with nonuniform sorbent particles. AICHE Journal, 1990, 36, 147-150.	3.6	31
57	Systematic interpolation method predicts protein chromatographic elution from batch isotherm data without a detailed mechanistic isotherm model. Biotechnology Journal, 2015, 10, 1400-1411.	3.5	31
58	Continuous Regioselective Enzymatic Esterification in a Simulated Moving Bed Reactor. Industrial & Engineering Chemistry Research, 2002, 41, 4722-4732.	3.7	30
59	Multicomponent protein adsorption in supported cationic polyacrylamide hydrogels. AICHE Journal, 2005, 51, 2469-2480.	3.6	29
60	Synthesis of lovastatin with immobilizedCandida rugosa lipase in organic solvents: Effects of reaction conditions on initial rates. , 1997, 56, 671-680.		28
61	Adsorptive control of water in esterification with immobilized enzymes: I. Batch reactor behavior. , 1998, 60, 434-444.		28
62	Adsorptive control of water in esterification with immobilized enzymes. Continuous operation in a periodic counter-current reactor. , 1999, 66, 137-146.		27
63	Linear driving force approximation for intraparticle diffusion and convection in permeable supports. Chemical Engineering Science, 1995, 50, 887-889.	3.8	26
64	Multicomponent adsorption of monoclonal antibodies on macroporous and polymer grafted cation exchangers. Journal of Chromatography A, 2012, 1264, 48-56.	3.7	26
65	Nature of foulants and fouling mechanism in the Protein A MabSelect resin cycled in a monoclonal antibody purification process. Biotechnology and Bioengineering, 2016, 113, 141-149.	3.3	26
66	Toward in silico CMC: An industrial collaborative approach to modelâ€based process development. Biotechnology and Bioengineering, 2020, 117, 3986-4000.	3.3	26
67	pH Transients in hydroxyapatite chromatography columnsâ€”Experimental evidence and phenomenological modeling. Journal of Chromatography A, 2010, 1217, 2123-2131.	3.7	25
68	Structural and functional characteristics of virgin and fouled Protein A MabSelect resin cycled in a monoclonal antibody purification process. Biotechnology and Bioengineering, 2016, 113, 367-375.	3.3	25
69	Adsorption of polyethylene-glycolated bovine serum albumin on macroporous and polymer-grafted anion exchangers. Journal of Chromatography A, 2014, 1326, 29-38.	3.7	24
70	Film Model Approximation for Multicomponent Adsorption. Adsorption, 2000, 6, 5-13.	3.0	23
71	Protein partitioning and transport in supported cationic acrylamide-based hydrogels. AICHE Journal, 2003, 49, 1168-1177.	3.6	23
72	Systematic Interpolation Method Predicts Antibody Monomer-Dimer Separation by Gradient Elution Chromatography at High Protein Loads. Biotechnology Journal, 2019, 14, 1800132.	3.5	23

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73	Mass transfer in the absorption of nitrogen oxides in alkaline solutions. AICHE Journal, 1988, 34, 1190-1199.	3.6	22
74	IgG adsorption on a new protein A adsorbent based on macroporous hydrophilic polymers. Journal of Chromatography A, 2009, 1216, 8348-8354.	3.7	22
75	Productivity Considerations and Design Charts for Biomolecule Capture with Periodic Countercurrent Adsorption Systems. Separation Science and Technology, 2010, 45, 149-154.	2.5	22
76	Comparison of perfusion media and monoliths for protein and virus-like particle chromatography. Journal of Chromatography A, 2016, 1447, 72-81.	3.7	22
77	Surface induced three-peak elution behavior of a monoclonal antibody during cation exchange chromatography. Journal of Chromatography A, 2016, 1474, 85-94.	3.7	22
78	Apolipoprotein Aâ€‹_{Milano} anion exchange chromatography: Self association and adsorption equilibrium. Biotechnology Journal, 2010, 5, 1028-1039.	3.5	21
79	Chromatographic behavior of bivalent bispecific antibodies on cation exchange columns. I. Experimental observations and phenomenological model. Journal of Chromatography A, 2019, 1601, 121-132.	3.7	21
80	Analytic solution for volume-overloaded gradient elution chromatography. Journal of Chromatography A, 1992, 605, 151-159.	3.7	20
81	Lysine Adsorption on Cation Exchange Resin. I. Ion Exchange Equilibrium and Kinetics. Separation Science and Technology, 2004, 39, 3691-3710.	2.5	20
82	Systematic interpolation method predicts protein chromatographic elution with salt gradients, pH gradients and combined salt/pH gradients. Biotechnology Journal, 2017, 12, 1600636.	3.5	20
83	Counterion effects on protein adsorption equilibrium and kinetics in polymer-grafted cation exchangers. Journal of Chromatography A, 2012, 1253, 83-93.	3.7	19
84	Multiscale modeling of protein adsorption and transport in macroporous and polymerâ€grafted ion exchangers. AICHE Journal, 2014, 60, 3888-3901.	3.6	19
85	SEPARATION OF METALS BY CONTINUOUS ANNULAR CHROMATOGRAPHY WITH STEP ELUTION. Chemical Engineering Communications, 1989, 79, 207-227.	2.6	18
86	Protein adsorption in charged agarose gels studied by light microscopy. AICHE Journal, 2007, 53, 1472-1482.	3.6	18
87	Effects of molecule size and resin structure on protein adsorption on multimodal anion exchange chromatography media. Journal of Chromatography A, 2020, 1628, 461444.	3.7	18
88	Temperature effects on equilibrium and mass transfer of phenylalanine in cation exchangers. Reactive and Functional Polymers, 1997, 32, 25-41.	4.1	17
89	Effect of Aeration during Cell Growth on Ketone Reactions by Immobilized Yeast. Biotechnology Progress, 2000, 16, 208-212.	2.6	17
90	Effects of Polymer Graft Properties on Protein Adsorption and Transport in Ion Exchange Chromatography: A Multiscale Modeling Study. Langmuir, 2015, 31, 4176-4187.	3.5	17

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91	Polyclonal and monoclonal IgG binding on protein A resinsâ€"Evidence of competitive binding effects. Biotechnology and Bioengineering, 2017, 114, 1803-1812.	3.3	17
92	Protein adsorption in anion exchange resinsÂâ€"Âeffects of polymer grafting, support structure porosity, and protein size. Journal of Chemical Technology and Biotechnology, 2018, 93, 1948-1958.	3.2	17
93	Enzymatic Transformations of Thio Acids and Thio Esters. Biotechnology Progress, 1997, 13, 71-76.	2.6	16
94	Structure and protein adsorption mechanisms of clean and fouled tentacle-type anion exchangers used in a monoclonal antibody polishing step. Journal of Chromatography A, 2013, 1278, 116-125.	3.7	16
95	Protein Adsorption on Core-shell Particles: Comparison of Captoâ„¢ Core 400 and 700 Resins. Journal of Chromatography A, 2021, 1651, 462314.	3.7	16
96	Sorption of water from alcohol-water mixtures by cation-exchange resins. Industrial & Engineering Chemistry Research, 1987, 26, 2437-2441.	3.7	15
97	Chromatography of reversibly reacting mixtures: mutarotation effects in sugar separations. Chemical Engineering Science, 1992, 47, 1645-1657.	3.8	15
98	Film Model Approximation for Particle-Diffusion-Controlled Multicomponent Ion Exchange. Separation Science and Technology, 1999, 34, 2685-2697.	2.5	15
99	Evaluation of polymer matrices for an adsorptive approach to plasma detoxification. Biomaterials, 2010, 31, 2857-2865.	11.4	15
100	pH transients in hydroxyapatite chromatography columnsâ€"Effects of operating conditions and media properties. Journal of Chromatography A, 2010, 1217, 7573-7578.	3.7	15
101	Structural and performance characteristics of representative anion exchange resins used for weak partitioning chromatography. Biotechnology Progress, 2017, 33, 425-434.	2.6	15
102	Structure and functional properties of Captoâ„¢ Core 700 core-shell particles. Journal of Chromatography A, 2020, 1621, 461079.	3.7	15
103	Protein adsorption kinetics in charged agarose gels: Effect of agarose content and modeling. AICHE Journal, 2009, 55, 331-341.	3.6	14
104	Chromatographic behavior of bivalent bispecific antibodies on cation exchange columns. II. Biomolecular perspectives. Journal of Chromatography A, 2019, 1601, 133-144.	3.7	14
105	Displacement chromatography of amino acids: Effects of selectivity reversal. AICHE Journal, 1994, 40, 1618-1628.	3.6	13
106	Adsorptive control of water in esterification with immobilized enzymes: II. Fixed-bed reactor behavior. , 1998, 60, 445-453.		13
107	Film Model Approximation for Particle-Diffusion-Controlled Binary Ion Exchange. Separation Science and Technology, 1999, 34, 1-16.	2.5	13
108	Relationship between <scp>HETP</scp> measurements and breakthrough curves in short chromatography columns. Biotechnology Progress, 2021, 37, e3065.	2.6	13

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109	Periodic countercurrent operation of sorption processes applied to water desalination with thermally regenerable ion-exchange resins. Industrial & Engineering Chemistry Fundamentals, 1986, 25, 677-685.	0.7	12
110	Gradient elution behavior of proteins in hydrophobic interaction chromatography with U-shaped retention factor curves. Journal of Chromatography A, 2018, 1547, 53-61.	3.7	12
111	Competitive binding of monoclonal antibody monomer-dimer mixtures on ceramic hydroxyapatite. Journal of Chromatography A, 2019, 1587, 136-145.	3.7	12
112	Chromatographic behavior of bivalent bispecific antibodies on hydrophobic interaction chromatography columns. Journal of Chromatography A, 2020, 1617, 460836.	3.7	12
113	Hindered diffusion of proteins in mixture adsorption on porous anion exchangers and impact on flow-through purification of large proteins. Journal of Chromatography A, 2019, 1585, 121-130.	3.7	11
114	Regioselective Enzymatic Diol Esterification in Batch and Fixed-Bed Adsorptive Reactors: Experiments and Modeling. Biotechnology Progress, 2000, 16, 600-609.	2.6	10
115	Effects of protein properties on adsorption and transport in polymerâ€grafted ion exchangers: A multiscale modeling study. AICHE Journal, 2017, 63, 4564-4575.	3.6	10
116	Assay for Recombinant and Native Human Intraacrosomal Antigen SPâ€10. American Journal of Reproductive Immunology, 1993, 29, 231-240.	1.2	9
117	SCRUBBING OF NITROGEN OXIDES WITH NITRIC ACID SOLUTIONS. Chemical Engineering Communications, 1986, 42, 157-170.	2.6	8
118	Pilot-scale studies of sugar separations by continuous chromatography. Applied Biochemistry and Biotechnology, 1989, 20-21, 635-654.	2.9	8
119	Lysine Adsorption on Cation Exchange Resin. II. Column Adsorption/Desorption Behavior and Modeling. Separation Science and Technology, 2004, 39, 3711-3738.	2.5	8
120	Gradient elution behavior of proteins in hydrophobic interaction chromatography with a U-shaped retention factor curve under overloaded conditions. Journal of Chromatography A, 2018, 1578, 28-34.	3.7	8
121	Dynamics of competitive binding and separation of monoclonal antibody monomer-dimer mixtures in ceramic hydroxyapatite columns. Journal of Chromatography A, 2020, 1609, 460504.	3.7	8
122	Mixed-Beds of Strong and Weak Anion Exchange Resins for Protein Separations with Step-Induced pH Gradients. Separation Science and Technology, 2014, 49, 477-489.	2.5	7
123	Analysis of gradient elution chromatography using the transport model. Chemical Engineering Science, 2020, 225, 115809.	3.8	7
124	Patterns of protein adsorption in ion-exchange particles and columns: Evolution of protein concentration profiles during load, hold, and wash steps predicted for pore and solid diffusion mechanisms. Journal of Chromatography A, 2021, 1653, 462412.	3.7	7
125	Lysine Adsorption on Cation Exchange Resin. III. Multicolumn Adsorption/Desorption Operation. Separation Science and Technology, 2005, 40, 791-809.	2.5	6
126	Chromatographic and adsorptive behavior of a bivalent bispecific antibody and associated fragments. Journal of Chromatography A, 2021, 1648, 462181.	3.7	6

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127	Role of configurational flexibility on the adsorption kinetics of bivalent bispecific antibodies on porous cation exchange resins. Journal of Chromatography A, 2021, 1655, 462479.	3.7	6
128	Introduction to Protein Chromatography. , 0, , 57-84.		5
129	Chemical modification of protein A chromatography ligands with polyethylene glycol. I: Effects on IgG adsorption equilibrium, kinetics, and transport. Journal of Chromatography A, 2018, 1546, 77-88.	3.7	5
130	Separation of monoclonal antibody monomer-dimer mixtures by gradient elution with ceramic hydroxyapatite. Journal of Chromatography A, 2020, 1629, 461465.	3.7	5
131	Simulated Moving Bed Chromatographic Reactors. Kluwer International Series in Engineering and Computer Science, 1996, , 733-740.	0.2	5
132	Adsorption Calculations Using the Film Model Approximation for Intraparticle Mass Transfer. Adsorption, 2003, 9, 55-65.	3.0	4
133	Apolipoprotein Aâ€‹_{Milano} anion exchange chromatography: Mass transfer and adsorption kinetics. Biotechnology Journal, 2010, 5, 1040-1049.	3.5	4
134	Predicting Retention and Resolution of Protein Charge Variants in Mixed-Beds of Strong and Weak Anion Exchange Resins with Step-Induced pH Gradients. Separation Science and Technology, 2014, 49, 1775-1786.	2.5	4
135	Chemical modification of protein a chromatography ligands with polyethylene glycol. II: Effects on resin robustness and process selectivity. Journal of Chromatography A, 2018, 1546, 89-96.	3.7	3
136	Theory of two-component irreversible adsorption with pore diffusion control. Chemical Engineering Science, 2022, 253, 117582.	3.8	3
137	Gradient Elution Chromatography. , 0, , 277-308.		2
138	Diffusion with instantaneous reaction in a drop with continuous-phase resistance. AICHE Journal, 1989, 35, 1543-1546.	3.6	1
139	Adsorption Equilibria. , 0, , 145-160.		1
140	Laboratory and Process Columns and Equipment. , 0, , 125-143.		1
141	Rapid and Sensitive Detection of the Interaction of Human Papillomavirus Virusâ€‹Like Particles with Yeast Whole Cell RNA Using Biolayer Interferometry. Biotechnology Journal, 2019, 14, e1800303.	3.5	1
142	Preparation and characterization of agarose-encapsulated ceramic hydroxyapatite particles for flow-through chromatography. Separation Science and Technology, 2022, 57, 2073-2087.	2.5	1
143	DYNAMICS OF ADSORPTIVE REACTOR WITH A BIMOLECULAR REACTION. Chemical Engineering Communications, 1999, 176, 65-75.	2.6	0
144	Bioseparations. Biotechnology Journal, 2006, 1, 29-30.	3.5	0

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145	Lysine Adsorption on Cation Exchange Resin. IV. Temperature Effects on Equilibrium and Kinetics in Batch and Column Systems. Separation Science and Technology, 2008, 43, 512-532.	2.5	0
146	In memoriam-Elmer L. Gaden, Jr.. Biotechnology and Bioengineering, 2012, 109, 1887-1888.	3.3	0
147	Resolution of Protein Charge Variants in Mixed-Bed Chromatography Columns with Step-Induced pH Gradients at High Protein Loadings. Separation Science and Technology, 0, , 150527095459001.	2.5	0
148	Cover Image, Volume 93, Issue 7. Journal of Chemical Technology and Biotechnology, 2018, 93, i-i.	3.2	0
149	ï¼¬ï¼ãƒªã‚¸ãƒ³ç²¾è£½ã‚ªãƒ³äº¤æ›¨è„‚å¡”ã‚·ã‚¹ãƒ†ãƒ ã«ãŠã‘ã‚‹å¡”æ•°ã®å½±éŸ¿. Kagaku Kogaku Ronbunshu, 2008, 34, 85-94.	0	0