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	Preparation and characterization of agarose-encapsulated ceramic hydroxyapatite particles for flow-through chromatography. Separation Science and Technology, 2022, 57, 2073-2087.	2.5	1
2	Theory of two-component irreversible adsorption with pore diffusion control. Chemical Engineering Science, 2022, 253, 117582.	3.8	3
3	Relationship between <scp>HETP</scp> measurements and breakthrough curves in short chromatography columns. Biotechnology Progress, 2021, 37, e3065.	2.6	13
4	Chromatographic and adsorptive behavior of a bivalent bispecific antibody and associated fragments. Journal of Chromatography A, 2021, 1648, 462181.	3.7	6
5	Protein Adsorption on Core-shell Particles: Comparison of Captoâ„¢ Core 400 and 700 Resins. Journal of Chromatography A, 2021, 1651, 462314.	3.7	16
6	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
7	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
8	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
9	Chromatographic behavior of bivalent bispecific antibodies on hydrophobic interaction chromatography columns. Journal of Chromatography A, 2020, 1617, 460836.	3.7	12
10	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
11	Toward in silico CMC: An industrial collaborative approach to modelâ€based process development. Biotechnology and Bioengineering, 2020, 117, 3986-4000.	3.3	26
12	Separation of monoclonal antibody monomer-dimer mixtures by gradient elution with ceramic hydroxyapatite. Journal of Chromatography A, 2020, 1629, 461465.	3.7	5
13	Analysis of gradient elution chromatography using the transport model. Chemical Engineering Science, 2020, 225, 115809.	3.8	7
14	Structure and functional properties of Captoâ„¢ Core 700 core-shell particles. Journal of Chromatography A, 2020, 1621, 461079.	3.7	15
15	Systematic Interpolation Method Predicts Antibody Monomer-Dimer Separation by Gradient Elution Chromatography at High Protein Loads. Biotechnology Journal, 2019, 14, 1800132.	3.5	23
16	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
17	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
18	Chromatographic behavior of bivalent bispecific antibodies on cation exchange columns. II. Biomolecular perspectives. Journal of Chromatography A, 2019, 1601, 133-144.	3.7	14

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19	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
20	Competitive binding of monoclonal antibody monomer-dimer mixtures on ceramic hydroxyapatite. Journal of Chromatography A, 2019, 1587, 136-145.	3.7	12
21	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
22	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
23	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
24	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
25	Cover Image, Volume 93, Issue 7. Journal of Chemical Technology and Biotechnology, 2018, 93, i-i.	3.2	0
26	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
27	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
28	Structural and performance characteristics of representative anion exchange resins used for weak partitioning chromatography. Biotechnology Progress, 2017, 33, 425-434.	2.6	15
29	Separation of antibody monomer-dimer mixtures by frontal analysis. Journal of Chromatography A, 2017, 1500, 96-104.	3.7	34
30	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
31	Polyclonal and monoclonal IgG binding on protein A resinsâ€”Evidence of competitive binding effects. Biotechnology and Bioengineering, 2017, 114, 1803-1812.	3.3	17
32	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
33	Comparison of perfusion media and monoliths for protein and virus-like particle chromatography. Journal of Chromatography A, 2016, 1447, 72-81.	3.7	22
34	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
35	Protein adsorption equilibrium and kinetics in multimodal cation exchange resins. Adsorption, 2016, 22, 165-179.	3.0	47
36	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

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37	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
38	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
39	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
40	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
41	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
42	Multiscale modeling of protein adsorption and transport in macroporous and polymerâ€grafted ion exchangers. AICHE Journal, 2014, 60, 3888-3901.	3.6	19
43	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
44	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
45	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
46	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
47	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
48	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
49	Protein and virus-like particle adsorption on perfusion chromatography media. Journal of Chromatography A, 2013, 1297, 96-105.	3.7	50
50	Multicomponent adsorption of monoclonal antibodies on macroporous and polymer grafted cation exchangers. Journal of Chromatography A, 2012, 1264, 48-56.	3.7	26
51	Counterion effects on protein adsorption equilibrium and kinetics in polymer-grafted cation exchangers. Journal of Chromatography A, 2012, 1253, 83-93.	3.7	19
52	Modeling multicomponent adsorption of monoclonal antibody charge variants in cation exchange columns. AICHE Journal, 2012, 58, 2503-2511.	3.6	42
53	Predicting protein dynamic binding capacity from batch adsorption tests. Biotechnology Journal, 2012, 7, 1216-1220.	3.5	40
54	In memoriam-Elmer L. Gaden, Jr.. Biotechnology and Bioengineering, 2012, 109, 1887-1888.	3.3	0

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55	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
56	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
57	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
58	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
59	Apolipoprotein Aâ€I_{Milano} anion exchange chromatography: Self association and adsorption equilibrium. Biotechnology Journal, 2010, 5, 1028-1039.	3.5	21
60	Apolipoprotein Aâ€I_{Milano} anion exchange chromatography: Mass transfer and adsorption kinetics. Biotechnology Journal, 2010, 5, 1040-1049.	3.5	4
61	Evaluation of polymer matrices for an adsorptive approach to plasma detoxification. Biomaterials, 2010, 31, 2857-2865.	11.4	15
62	pH Transients in hydroxyapatite chromatography columnsâ€"Experimental evidence and phenomenological modeling. Journal of Chromatography A, 2010, 1217, 2123-2131.	3.7	25
63	pH transients in hydroxyapatite chromatography columnsâ€"Effects of operating conditions and media properties. Journal of Chromatography A, 2010, 1217, 7573-7578.	3.7	15
64	Productivity Considerations and Design Charts for Biomolecule Capture with Periodic Countercurrent Adsorption Systems. Separation Science and Technology, 2010, 45, 149-154.	2.5	22
65	Protein adsorption kinetics in charged agarose gels: Effect of agarose content and modeling. AICHE Journal, 2009, 55, 331-341.	3.6	14
66	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
67	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
68	IgG adsorption on a new protein A adsorbent based on macroporous hydrophilic polymers. Journal of Chromatography A, 2009, 1216, 8348-8354.	3.7	22
69	Separation of protein charge variants with induced pH gradients using anion exchange chromatographic columns. Biotechnology Progress, 2008, 24, 1096-1106.	2.6	36
70	Rapid monoclonal antibody adsorption on dextran-grafted agarose media for ion-exchange chromatography. Journal of Chromatography A, 2008, 1211, 70-79.	3.7	76
71	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
72	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

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73	Temperature Dependence of the Dissociation Constants of Several Amino Acids. Journal of Chemical & Engineering Data, 2008, 53, 619-627.	1.9	72
74	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
75	ï¼¬ï¼ãƒªã‚¸ãƒ³ç²¾è£½ã‚ãªãƒªã‚¸ãƒ³æ›¸æ¨¹è„‚åšå¡”ã‚·ã‚¹ãƒ†ãƒ ã«ãŠã‘ã‚‹å¹³è¡¡ãŠã‚ˆã³å‹•åŠ›å¦ã®æ¸©åº¦å½±éŸ¿. Kagaku Kogaku Ronbunshu, 2008, 34, 85-94.	0.2	0
76	Protein adsorption in charged agarose gels studied by light microscopy. AICHE Journal, 2007, 53, 1472-1482.	3.6	18
77	pH transitions in cation exchange chromatographic columns containing weak acid groups. Journal of Chromatography A, 2007, 1142, 19-31.	3.7	70
78	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
79	Patterns of protein adsorption in chromatographic particles visualized by optical microscopy. Journal of Chromatography A, 2007, 1160, 206-214.	3.7	54
80	Radiotracer measurements of protein mass transfer: Kinetics in ion exchange media. Biotechnology Journal, 2006, 1, 665-674.	3.5	41
81	Bioseparations. Biotechnology Journal, 2006, 1, 29-30.	3.5	0
82	Two-component protein adsorption kinetics in porous ion exchange media. Journal of Chromatography A, 2005, 1079, 105-115.	3.7	57
83	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
84	Multicomponent protein adsorption in supported cationic polyacrylamide hydrogels. AICHE Journal, 2005, 51, 2469-2480.	3.6	29
85	Lysine Adsorption on Cation Exchange Resin. III. Multicolumn Adsorption/Desorption Operation. Separation Science and Technology, 2005, 40, 791-809.	2.5	6
86	Mesh Size of Charged Polyacrylamide Hydrogels from Partitioning Measurements. Industrial & Engineering Chemistry Research, 2005, 44, 8213-8217.	3.7	35
87	Lysine Adsorption on Cation Exchange Resin. II. Column Adsorption/Desorption Behavior and Modeling. Separation Science and Technology, 2004, 39, 3711-3738.	2.5	8
88	Lysine Adsorption on Cation Exchange Resin. I. Ion Exchange Equilibrium and Kinetics. Separation Science and Technology, 2004, 39, 3691-3710.	2.5	20
89	Adsorption Calculations Using the Film Model Approximation for Intraparticle Mass Transfer. Adsorption, 2003, 9, 55-65.	3.0	4
90	Protein partitioning and transport in supported cationic acrylamide-based hydrogels. AICHE Journal, 2003, 49, 1168-1177.	3.6	23

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91	Particle-size distribution effects in batch adsorption. AICHE Journal, 2003, 49, 3066-3073.	3.6	42
92	Continuous Regioselective Enzymatic Esterification in a Simulated Moving Bed Reactor. Industrial & Engineering Chemistry Research, 2002, 41, 4722-4732.	3.7	30
93	Protein adsorption on novel acrylamido-based polymeric ion-exchangers. Journal of Chromatography A, 2002, 971, 105-116.	3.7	59
94	Protein Transport in Constrained Anionic Hydrogels:â€‰ Diffusion and Boundary-Layer Mass Transfer. Industrial & Engineering Chemistry Research, 2001, 40, 1548-1558.	3.7	42
95	Effects of bovine serum albumin heterogeneity on frontal analysis with anion-exchange media. Journal of Chromatography A, 2001, 937, 13-19.	3.7	50
96	Asymmetric Ketone Reduction with Immobilized Yeast in Hexane: Biocatalyst Deactivation and Regeneration. Biotechnology Progress, 2001, 17, 304-310.	2.6	40
97	Protein adsorption on novel acrylamido-based polymeric ion-exchangers. Journal of Chromatography A, 2000, 897, 65-80.	3.7	54
98	Protein adsorption on novel acrylamido-based polymeric ion exchangers. Journal of Chromatography A, 2000, 897, 81-97.	3.7	67
99	Effect of Aeration during Cell Growth on Ketone Reactions by Immobilized Yeast. Biotechnology Progress, 2000, 16, 208-212.	2.6	17
100	Regioselective Enzymatic Diol Esterification in Batch and Fixed-Bed Adsorptive Reactors: Experiments and Modeling. Biotechnology Progress, 2000, 16, 600-609.	2.6	10
101	Film Model Approximation for Multicomponent Adsorption. Adsorption, 2000, 6, 5-13.	3.0	23
102	Protein diffusion in charged polyacrylamide gels. Journal of Chromatography A, 1999, 865, 155-168.	3.7	39
103	Binary protein adsorption on gel-composite ion-exchange media. AICHE Journal, 1999, 45, 512-522.	3.6	59
104	Adsorptive control of water in esterification with immobilized enzymes. Continuous operation in a periodic counter-current reactor. , 1999, 66, 137-146.		27
105	Film Model Approximation for Particle-Diffusion-Controlled Multicomponent Ion Exchange. Separation Science and Technology, 1999, 34, 2685-2697.	2.5	15
106	Film Model Approximation for Particle-Diffusion-Controlled Binary Ion Exchange. Separation Science and Technology, 1999, 34, 1-16.	2.5	13
107	DYNAMICS OF ADSORPTIVE REACTOR WITH A BIMOLECULAR REACTION. Chemical Engineering Communications, 1999, 176, 65-75.	2.6	0
108	Asymmetric Reduction of Acetophenone with Calcium-Alginate-Entrapped Baker's Yeast in Organic Solvents. Biotechnology Progress, 1998, 14, 588-593.	2.6	43

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109	Adsorptive control of water in esterification with immobilized enzymes: I. Batch reactor behavior. , 1998, 60, 434-444.		28
110	Adsorptive control of water in esterification with immobilized enzymes: II. Fixed-bed reactor behavior. , 1998, 60, 445-453.		13
111	Protein Adsorption and Desorption on Gel-Filled Rigid Particles for Ion Exchange. Industrial & Engineering Chemistry Research, 1998, 37, 1079-1087.	3.7	40
112	Enzymatic Transformations of Thio Acids and Thio Esters. Biotechnology Progress, 1997, 13, 71-76.	2.6	16
113	Temperature effects on equilibrium and mass transfer of phenylalanine in cation exchangers. Reactive and Functional Polymers, 1997, 32, 25-41.	4.1	17
114	Synthesis of lovastatin with immobilizedCandida rugosa lipase in organic solvents: Effects of reaction conditions on initial rates. , 1997, 56, 671-680.		28
115	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
116	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
117	Protein Adsorption on Cation Exchangers: Comparison of Macroporous and Gel-Composite Media. Biotechnology Progress, 1996, 12, 342-355.	2.6	190
118	Simulated Moving Bed Chromatographic Reactors. Kluwer International Series in Engineering and Computer Science, 1996, , 733-740.	0.2	5
119	Fatty acid esterification using nylon-immobilized lipase. Biotechnology and Bioengineering, 1995, 48, 601-605.	3.3	73
120	Linear driving force approximation for intraparticle diffusion and convection in permeable supports. Chemical Engineering Science, 1995, 50, 887-889.	3.8	26
121	Displacement chromatography of amino acids: Effects of selectivity reversal. AICHE Journal, 1994, 40, 1618-1628.	3.6	13
122	Diffusion and convection in chromatographic processes using permeable supports with a bidisperse pore structure. Chemical Engineering Science, 1993, 48, 3927-3935.	3.8	89
123	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
124	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
125	Assay for Recombinant and Native Human Intraacrosomal Antigen SPâ€10. American Journal of Reproductive Immunology, 1993, 29, 231-240.	1.2	9
126	Chromatography with permeable supports: Theory and comparison with experiments. Separation and Purification Technology, 1992, 2, 62-72.	0.7	67

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127	Synthesis of esters using a nylon-immobilized lipase in batch and continuous reactors. Enzyme and Microbial Technology, 1992, 14, 904-910.	3.2	46
128	Analytic solution for volume-overloaded gradient elution chromatography. Journal of Chromatography A, 1992, 605, 151-159.	3.7	20
129	Chromatography of reversibly reacting mixtures: mutarotation effects in sugar separations. Chemical Engineering Science, 1992, 47, 1645-1657.	3.8	15
130	Continuous separation of proteins by annular chromatography. Industrial & Engineering Chemistry Research, 1991, 30, 1061-1067.	3.7	45
131	Enzymatic synthesis of esters using an immobilized lipase. Biotechnology and Bioengineering, 1991, 37, 1004-1009.	3.3	106
132	Sugar separations on a pilot scale by continuous annular chromatography. Biotechnology Progress, 1990, 6, 13-20.	2.6	33
133	Analytic solution for chromatography with nonuniform sorbent particles. AICHE Journal, 1990, 36, 147-150.	3.6	31
134	Displacement separations by continuous annular chromatography. AICHE Journal, 1990, 36, 1220-1228.	3.6	51
135	Equilibrium sorption of amino acids by a cation-exchange resin. Industrial & Engineering Chemistry Research, 1990, 29, 849-857.	3.7	57
136	SEPARATION OF METALS BY CONTINUOUS ANNULAR CHROMATOGRAPHY WITH STEP ELUTION. Chemical Engineering Communications, 1989, 79, 207-227.	2.6	18
137	Pilot-scale studies of sugar separations by continuous chromatography. Applied Biochemistry and Biotechnology, 1989, 20-21, 635-654.	2.9	8
138	Uptake of phenylalanine and tyrosine by a strong-acid cation exchanger. AICHE Journal, 1989, 35, 53-68.	3.6	112
139	Diffusion with instantaneous reaction in a drop with continuous-phase resistance. AICHE Journal, 1989, 35, 1543-1546.	3.6	1
140	Mass transfer in the absorption of nitrogen oxides in alkaline solutions. AICHE Journal, 1988, 34, 1190-1199.	3.6	22
141	Exact analytic solution of a mathematical model for chromatographic operations. Chemical Engineering Science, 1988, 43, 2877-2883.	3.8	66
142	Sorption of water from alcohol-water mixtures by cation-exchange resins. Industrial & Engineering Chemistry Research, 1987, 26, 2437-2441.	3.7	15
143	SCRUBBING OF NITROGEN OXIDES WITH NITRIC ACID SOLUTIONS. Chemical Engineering Communications, 1986, 42, 157-170.	2.6	8
144	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

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145	Adsorption Equilibria. , 0, , 145-160.		1
146	Gradient Elution Chromatography. , 0, , 277-308.		2
147	Introduction to Protein Chromatography. , 0, , 57-84.		5
148	Laboratory and Process Columns and Equipment. , 0, , 125-143.		1
149	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