Dong-Qiang Lin

List of Publications by Year
in descending order

162 papers	3,705 citations	136950 32 h-index	223800 46 g-index
163 all docs	163 docs citations	163 times ranked	2578 citing authors

#	Article	IF	Citations
1	Design of Chitosan and Its Water Soluble Derivatives-Based Drug Carriers with Polyelectrolyte Complexes. Marine Drugs, 2014, 12, 6236-6253.	4.6	104
2	Biosynthesis of Î³-aminobutyric acid (GABA) using immobilized whole cells of Lactobacillus brevis. World Journal of Microbiology and Biotechnology, 2007, 23, 865-871.	3.6	92
3	Biomass/adsorbent electrostatic interactions in expanded bed adsorption: A zeta potential study. Biotechnology and Bioengineering, 2003, 83, 149-157.	3.3	78
4	Thermodynamics of aqueous two-phase systemsâ€"the effect of polymer molecular weight on liquidâ€"liquid equilibrium phase diagrams by the modified NRTL model. Fluid Phase Equilibria, 1998, 147, 25-43.	2.5	72
5	Densities and Viscosities of Polyethylene Glycol + Salt + Water Systems at 20 .degree.C. Journal of Chemical & Engineering Data, 1995, 40, 1168-1171.	1.9	69
6	Protein adsorption kinetics of mixed-mode adsorbent with benzylamine as functional ligand. Chemical Engineering Science, 2006, 61, 7260-7268.	3.8	59
7	Mechanistic analysis on the effects of salt concentration and pH on protein adsorption onto a mixed-mode adsorbent with cation ligand. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 859, 16-23.	2.3	58
8	Purification and Characterization of Glutamate Decarboxylase of Lactobacillus brevis CGMCC 1306 Isolated from Fresh Milk. Chinese Journal of Chemical Engineering, 2007, 15, 157-161.	3.5	57
9	Review on biomimetic affinity chromatography with short peptide ligands and its application to protein purification. Journal of Chromatography A, 2018, 1571, 1-15.	3.7	56
10	Preparation and characterization of macroporous celluloseâ€"tungsten carbide composite beads for expanded bed applications. Journal of Chromatography A, 2007, 1175, 55-62.	3.7	55
11	Isopiestic Determination of the Water Activities of Poly(ethylene glycol) + Salt + Water Systems at 25 Â°C. Journal of Chemical & Engineering Data, 1996, 41, 1040-1042.	1.9	53
12	A modified NRTL equation for the calculation of phase equilibrium of polymer solutions. Fluid Phase Equilibria, 1996, 121, 125-139.	2.5	53
13	Prediction of liquid-liquid equilibria of polymerî—¸salt aqueous two-phase systems by a modified Pitzer's virial equation. Fluid Phase Equilibria, 1996, 124, 67-79.	2.5	53
14	Gelation conditions and transport properties of hollow calcium alginate capsules. Biotechnology and Bioengineering, 2004, 87, 228-233.	3.3	53
15	Zeta potential as a diagnostic tool to evaluate the biomass electrostatic adhesion during ion-exchange expanded bed application. Biotechnology and Bioengineering, 2006, 95, 185-191.	3.3	52
16	Evaluating antibody monomer separation from associated aggregates using mixed-mode chromatography. Journal of Chromatography A, 2013, 1294, 70-75.	3.7	52
17	Minimising biomass/adsorbent interactions in expanded bed adsorption processes: a methodological design approach. Bioseparation, 2001, 10, 7-19.	0.7	50
18	Preparation and Evaluation of Cellulose Adsorbents for Hydrophobic Charge Induction Chromatography. Industrial & Engineering Chemistry Research, 2008, 47, 9566-9572.	3.7	50

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19	Molecular Insight into the Ligandâ€“IgG Interactions for 4-Mercaptoethyl-pyridine Based Hydrophobic Charge-Induction Chromatography. Journal of Physical Chemistry B, 2012, 116, 1393-1400.	2.6	50
20	Enhancing IgG purification from serum albumin containing feedstock with hydrophobic charge-induction chromatography. Journal of Chromatography A, 2012, 1244, 116-122.	3.7	48
21	An improved isopiestic method for measurement of water activities in aqueous polymer and salt solutions. Fluid Phase Equilibria, 1996, 118, 241-248.	2.5	44
22	Effects of ligand density and pore size on the adsorption of bovine <scp>IgG</scp> with <scp>DEAE</scp> ionâ€exchange resins. Journal of Separation Science, 2012, 35, 2131-2137.	2.5	43
23	Evaluation of immunoglobulin adsorption on the hydrophobic charge-induction resins with different ligand densities and pore sizes. Journal of Chromatography A, 2013, 1278, 61-68.	3.7	43
24	Characterization of novel lactoferrin loaded capsules prepared with polyelectrolyte complexes. International Journal of Pharmaceutics, 2013, 455, 124-131.	5.2	42
25	Microchannel liquid-flow focusing and cryo-polymerization preparation of supermacroporous cryogel beads for bioseparation. Journal of Chromatography A, 2012, 1247, 81-88.	3.7	41
26	Self-immobilization of a magnetic biosorbent and magnetic induction heated dye adsorption processes. Chemical Engineering Journal, 2016, 284, 972-978.	12.7	40
27	Biodegradation of polyelectrolyte complex films composed of chitosan and sodium cellulose sulfate as the controllable release carrier. Carbohydrate Polymers, 2010, 82, 323-328.	10.2	39
28	Predictive modeling of protein adsorption along the bed height by taking into account the axial nonuniform liquid dispersion and particle classification in expanded beds. Journal of Chromatography A, 2005, 1095, 16-26.	3.7	35
29	Preparation and characterization of titanium oxide-densified cellulose beads for expanded bed adsorption. Journal of Applied Polymer Science, 2003, 90, 2848-2854.	2.6	34
30	Molecular mechanism of hydrophobic charge-induction chromatography: Interactions between the immobilized 4-mercaptoethyl-pyridine ligand and IgG. Journal of Chromatography A, 2012, 1260, 143-153.	3.7	34
31	Modeling the protein partitioning in aqueous polymer two-phase systems: influence of polymer concentration and molecular weight. Chemical Engineering Science, 2003, 58, 2963-2972.	3.8	33
32	Preparation and Characterization of Celluloseâ^'Stainless Steel Powder Composite Particles Customized for Expanded Bed Application. Industrial & Engineering Chemistry Research, 2005, 44, 8218-8224.	3.7	33
33	Diffusion Coefficients in Intrahollow Calcium Alginate Microcapsules. Journal of Chemical & Engineering Data, 2004, 49, 475-478.	1.9	32
34	The influence of homogenisation conditions on biomass-adsorbent interactions during ion-exchange expanded bed adsorption. Biotechnology and Bioengineering, 2006, 94, 543-553.	3.3	32
35	Chromatographic performance of macroporous celluloseâ€“tungsten carbide composite beads as anion-exchanger for expanded bed adsorption at high fluid velocity. Journal of Chromatography A, 2008, 1195, 60-66.	3.7	32
36	Caprylate as the albumin-selective modifier to improve IgG purification with hydrophobic charge-induction chromatography. Journal of Chromatography A, 2013, 1285, 88-96.	3.7	32

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37	A novel polymer-grafted hydrophobic charge-induction chromatographic resin for enhancing protein adsorption capacity. Chemical Engineering Journal, 2016, 304, 251-258.	12.7	32
38	Measurement of phase diagrams for new aqueous two-phase systems and prediction by a generalized multicomponent osmotic virial equation. Chemical Engineering Science, 1998, 53, 2755-2767.	3.8	31
39	Effect and mechanism of sodium chloride on the formation of chitosanâ€“cellulose sulfateâ€“tripolyphosphate crosslinked beads. Soft Matter, 2013, 9, 10354.	2.7	31
40	Measurement of water activities and prediction of liquidâ€“liquid equilibria for water+ethylene oxide-propylene oxide random copolymer+ammonium sulfate systems. Fluid Phase Equilibria, 2000, 175, 7-18.	2.5	30
41	Preparation of an anion exchanger based on TiO2-densified cellulose beads for expanded bed adsorption. Reactive and Functional Polymers, 2005, 62, 169-177.	4.1	30
42	Preparation and adsorption behavior of a celluloseâ€based, mixedâ€mode adsorbent with a benzylamine ligand for expanded bed applications. Journal of Applied Polymer Science, 2008, 107, 674-682.	2.6	30
43	Preparation and evaluation of dextran-grafted agarose resin for hydrophobic charge-induction chromatography. Journal of Chromatography A, 2014, 1369, 116-124.	3.7	30
44	Separation of lactoperoxidase from bovine whey milk by cation exchange composite cryogel embedded macroporous cellulose beads. Separation and Purification Technology, 2015, 147, 132-138.	7.9	30
45	Preparation and characterization of NaCSâ€“CMC/PDMDAAC capsules. Colloids and Surfaces B: Biointerfaces, 2005, 45, 136-143.	5.0	29
46	A new purification process for goose immunoglobulin IgY(Î”Fc) with hydrophobic charge-induction chromatography. Biochemical Engineering Journal, 2011, 56, 205-211.	3.6	29
47	Hydrophobic chargeâ€induction resin with 5â€aminobenzimidazol as the functional ligand: preparation, protein adsorption and immunoglobulin G purification. Journal of Separation Science, 2015, 38, 2387-2393.	2.5	29
48	A mixed-mode resin with tryptamine ligand for human serum albumin separation. Journal of Chromatography A, 2016, 1431, 145-153.	3.7	29
49	Model-based process development of continuous chromatography for antibody capture: A case study with twin-column system. Journal of Chromatography A, 2020, 1619, 460936.	3.7	29
50	Characterization of immunoglobulin adsorption on dextran-grafted hydrophobic charge-induction resins: Cross-effects of ligand density and pH/salt concentration. Journal of Chromatography A, 2015, 1396, 45-53.	3.7	28
51	Multimodal charge-induction chromatography for antibody purification. Journal of Chromatography A, 2016, 1429, 258-264.	3.7	28
52	Modeling axial distributions of adsorbent particle size and local voidage in expanded bed. Chemical Engineering Science, 2004, 59, 449-457.	3.8	27
53	Expansion and hydrodynamic properties of cellulose-stainless steel powder composite matrix for expanded bed adsorption. Journal of Chromatography A, 2006, 1107, 265-272.	3.7	27
54	Evaluation of new high-density ion exchange adsorbents for expanded bed adsorption chromatography. Journal of Chromatography A, 2007, 1145, 58-66.	3.7	27

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55	Optimization of a Natural Medium for Cellulase by a Marine Aspergillus niger Using Response Surface Methodology. Applied Biochemistry and Biotechnology, 2012, 167, 1963-1972.	2.9	27
56	Poly(hydroxyethyl methacrylate)-based composite cryogel with embedded macroporous cellulose beads for the separation of human serum immunoglobulin and albumin. Journal of Separation Science, 2013, 36, 3813-3820.	2.5	27
57	One-Step Purification of Lactoferrin from Crude Sweet Whey Using Cation-Exchange Expanded Bed Adsorption. Industrial & Engineering Chemistry Research, 2013, 52, 2693-2699.	3.7	26
58	New tetrapeptide ligands designed for antibody purification with biomimetic chromatography: Molecular simulation and experimental validation. Biochemical Engineering Journal, 2016, 114, 191-201.	3.6	26
59	Adsorbents for Expanded Bed Adsorption: Preparation and Functionalization. Chinese Journal of Chemical Engineering, 2009, 17, 678-687.	3.5	25
60	Measurement and Correlation of Protein Adsorption with Mixed-Mode Adsorbents Taking into Account the Influences of Salt Concentration and pH. Journal of Chemical & Engineering Data, 2006, 51, 1205-1211.	1.9	24
61	Spherical celluloseâ€“nickel powder composite matrix customized for expanded bed application. Journal of Applied Polymer Science, 2007, 104, 740-747.	2.6	24
62	Evaluation of mixed-mode chromatographic resins for separating IgG from serum albumin containing feedstock. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 936, 33-41.	2.3	24
63	Evaluation of poly(ethylene glycol)/hydroxypropyl starch aqueous two-phase system for immunoglobulin G extraction. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 928, 106-112.	2.3	24
64	An integrated expanded bed adsorption process for lactoferrin and immunoglobulin G purification from crude sweet whey. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 947-948, 201-207.	2.3	24
65	Model-assisted approaches for continuous chromatography: Current situation and challenges. Journal of Chromatography A, 2021, 1637, 461855.	3.7	24
66	Molecular insights into the binding selectivity of a synthetic ligand DAAG to Fc fragment of IgG. Journal of Molecular Recognition, 2014, 27, 250-259.	2.1	23
67	Antibody capture with twin-column continuous chromatography: Effects of residence time, protein concentration and resin. Separation and Purification Technology, 2020, 253, 117554.	7.9	23
68	Model-based process development and evaluation of twin-column continuous capture processes with Protein A affinity resin. Journal of Chromatography A, 2020, 1625, 461300.	3.7	23
69	Stability of expanded beds during the application of crude feedstock. Biotechnology and Bioengineering, 2003, 81, 21-26.	3.3	22
70	The influence of biomass on the hydrodynamic behavior and stability of expanded beds. Biotechnology and Bioengineering, 2004, 87, 337-346.	3.3	22
71	Separation of nattokinase fromBacillus subtilis fermentation broth by expanded bed adsorption with mixed-mode adsorbent. Biotechnology and Bioprocess Engineering, 2005, 10, 128-135.	2.6	22
72	Patch controlled protein adsorption in mixed-mode chromatography with benzylamine as functional ligand. Biochemical Engineering Journal, 2008, 38, 355-361.	3.6	22

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73	Adsorption of rutin with a novel Î²-cyclodextrin polymer adsorbent: Thermodynamic and kinetic study. Carbohydrate Polymers, 2012, 90, 1764-1770.	10.2	22
74	Directed expression of halophilic and acidophilic Î²-glucosidases by introducing homologous constitutive expression cassettes in marine Aspergillus niger. Journal of Biotechnology, 2019, 292, 12-22.	3.8	22
75	Process development and optimization of continuous capture with threeâ€column periodic counterâ€current chromatography. Biotechnology and Bioengineering, 2021, 118, 3313-3322.	3.3	22
76	Separation of monoclonal antibody charge variants using cation exchange chromatography: Resins and separation conditions optimization. Separation and Purification Technology, 2020, 235, 116136.	7.9	21
77	Improving the Stereoselectivity of Asymmetric Reduction of 3-Oxo Ester to 3-Hydroxy Ester with Pretreatments on Bakers' Yeast. Industrial & Engineering Chemistry Research, 2004, 43, 4871-4875.	3.7	20
78	Salt-Promoted Adsorption of an Antibody onto Hydrophobic Charge-Induction Adsorbents. Journal of Chemical & Engineering Data, 2010, 55, 5751-5758.	1.9	20
79	Influences of Ligand Structure and pH on the Adsorption with Hydrophobic Charge Induction Adsorbents: A Case Study of Antibody IgY. Separation Science and Technology, 2011, 46, 1957-1965.	2.5	20
80	5-Aminobenzimidazole as new hydrophobic charge-induction ligand for expanded bed adsorption of bovine IgG. Journal of Chromatography A, 2015, 1425, 97-105.	3.7	20
81	A novel Î²-cyclodextrin polymer/tungsten carbide composite matrix for expanded bed adsorption: Preparation and characterization of physical properties. Carbohydrate Polymers, 2010, 80, 1085-1090.	10.2	19
82	Antibodyâ€“Ligand Interactions for Hydrophobic Charge-Induction Chromatography: A Surface Plasmon Resonance Study. Langmuir, 2015, 31, 3422-3430.	3.5	19
83	On-column refolding of recombinant human interferon-Î³ inclusion bodies by expanded bed adsorption chromatography. Biotechnology and Bioengineering, 2006, 93, 755-760.	3.3	18
84	Modeling of liquidâ€“liquid equilibrium of polyethylene glycol-salt aqueous two-phase systemsâ€”the effect of partial dissociation of the salt. Fluid Phase Equilibria, 1999, 154, 109-122.	2.5	17
85	The Use of Ion-Selective Electrodes for Evaluating Residence Time Distributions in Expanded Bed Adsorption Systems. Biotechnology Progress, 2001, 17, 1128-1136.	2.6	17
86	Variation of the local effective axial dispersion coefficient with bed height in expanded beds. Chemical Engineering Journal, 2005, 109, 123-131.	12.7	17
87	Isolation of immunoglobulin <scp>G</scp> from bovine milk whey by poly(hydroxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	2.5	17
88	Molecular insight into protein binding orientations and interaction modes on hydrophobic charge-induction resin. Journal of Chromatography A, 2017, 1512, 34-42.	3.7	16
89	Expression of Piromyces rhizinflata cellulase in marine Aspergillus niger to enhance halostable cellulase activity by adjusting enzyme-composition. Biochemical Engineering Journal, 2017, 117, 156-161.	3.6	16
90	Preparation and characterization of supermacroporous polyacrylamide cryogel beads for biotechnological application. Journal of Applied Polymer Science, 2013, 130, 3082-3089.	2.6	15

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91	A microcalorimetric study of molecular interactions between immunoglobulin G and hydrophobic charge-induction ligand. Journal of Chromatography A, 2016, 1443, 145-151.	3.7	15
92	Evaluation on adsorption selectivity of immunoglobulin G with 2-mercapto-1-methyl-imidazole-based hydrophobic charge-induction resins. Biochemical Engineering Journal, 2017, 119, 34-41.	3.6	15
93	Characterization of dextran-grafted hydrophobic charge-induction resins: Structural properties, protein adsorption and transport. Journal of Chromatography A, 2017, 1517, 44-53.	3.7	15
94	Measurement and modeling of axial distribution of adsorbent particles in expanded bed: taking into account the particle density difference. Chemical Engineering Science, 2004, 59, 5873-5881.	3.8	14
95	Variation of the Axial Dispersion along the Bed Height for Adsorbents with a Density Difference and a Log-Normal Size Distribution in an Expanded Bed. Industrial & Engineering Chemistry Research, 2004, 43, 8066-8073.	3.7	14
96	Protein adsorption on ‹scp›DEAE‹/scp› ionâ€exchange resins with different ligand densities and pore sizes. Journal of Separation Science, 2012, 35, 3084-3090.	2.5	14
97	Evaluation of a PEG/hydroxypropyl starch aqueous twoâ€phase system for the separation of monoclonal antibodies from cell culture supernatant. Journal of Separation Science, 2014, 37, 447-453.	2.5	14
98	Thermal Inactivation Kinetics and Secondary Structure Change of a Low Molecular Weight Halostable Exoglucanase from a Marine Aspergillus niger at High Salinities. Applied Biochemistry and Biotechnology, 2017, 183, 1111-1125.	2.9	14
99	High-throughput screening and optimization of mixed-mode resins for human serum albumin separation with microtiter filter plate. Biochemical Engineering Journal, 2018, 131, 47-57.	3.6	14
100	Liquidâ^'Liquid Equilibria of Aqueous Two-Phase Systems Containing Ethylene Oxideâ^'Propylene Oxide Random Copolymer and Ammonium Sulfate. Journal of Chemical & Engineering Data, 1999, 44, 921-925.	1.9	13
101	Expansion and hydrodynamic properties of Î²-cyclodextrin polymer/tungsten carbide composite matrix in an expanded bed. Journal of Chromatography A, 2009, 1216, 7840-7845.	3.7	13
102	New hydrophobic charge-induction resin with 2-mercaptoimidazole as the ligand and its separation characteristics for porcine IgG. Biotechnology and Bioprocess Engineering, 2013, 18, 1169-1175.	2.6	13
103	Molecular recognition of Fcâ€specific ligands binding onto the consensus binding site of IgG: insights from molecular simulation. Journal of Molecular Recognition, 2014, 27, 501-509.	2.1	13
104	Chromatographic adsorption of serum albumin and antibody proteins in cryogels with benzyl-quaternary amine ligands. Journal of Chromatography A, 2015, 1381, 173-183.	3.7	13
105	Liquid Biphasic Systems for Oil-Rich Algae Bioproducts Processing. Sustainability, 2019, 11, 4682.	3.2	13
106	Comparison of Protein A affinity resins for twin-column continuous capture processes: Process performance and resin characteristics. Journal of Chromatography A, 2021, 1654, 462454.	3.7	13
107	Preparation and Application of Novel EOPOâ^'IDAâ^'Metal Polymer as Recyclable Metal Affinity Ligand in Aqueous Two-Phase Systems. Industrial & Engineering Chemistry Research, 2006, 45, 1774-1779.	3.7	12
108	Mass Transfer Behavior of Solutes in NaCSâ^'PDMDAAC Capsules. Industrial & Engineering Chemistry Research, 2006, 45, 1811-1816.	3.7	12

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109	Preparation of celluloseâ€“tungsten carbide composite beads with ionic liquid for expanded bed application. Journal of Applied Polymer Science, 2011, 119, 3453-3461.	2.6	12
110	Protein adsorption behavior and immunoglobulin separation with a mixedâ€mode resin based on pâ€aminohippuric acid. Journal of Separation Science, 2014, 37, 2474-2480.	2.5	12
111	Binary Adsorption Processes of Albumin and Immunoglobulin on Hydrophobic Charge-Induction Resins. Journal of Chemical & Engineering Data, 2016, 61, 1353-1360.	1.9	12
112	Affinity extraction of lactate dehydrogenase by aqueous two-phase systems using free triazine dyes. Biotechnology Letters, 1996, 10, 41-46.	0.5	11
113	Using a kinetic model that considers cell segregation to optimize hEGF expression in fed-batch cultures of recombinant Escherichia coli. Bioprocess and Biosystems Engineering, 2005, 27, 143-152.	3.4	11
114	Cryo-copolymerization preparation of dextran-hyaluronate based supermacroporous cryogel scaffolds for tissue engineering applications. Frontiers of Chemical Science and Engineering, 2012, 6, 339-347.	4.4	11
115	Halostable catalytic properties of exoglucanase from a marine Aspergillus niger and secondary structure change caused by high salinities. Process Biochemistry, 2017, 58, 85-91.	3.7	11
116	A new tetrapeptide biomimetic chromatographic resin for antibody separation with high adsorption capacity and selectivity. Journal of Chromatography A, 2019, 1604, 460474.	3.7	11
117	Isopiestic determination of the water activities and prediction of liquidâ€“liquid equilibrium in polyethylene glycol+hydroxypropyl starch+water systems. Fluid Phase Equilibria, 1999, 162, 159-170.	2.5	10
118	Evaluation and characterization of axial distribution in expanded bed. I. Bead size, bead density and local bed voidage. Journal of Chromatography A, 2013, 1304, 78-84.	3.7	10
119	Poly(glycidyl methacrylate)â€grafted hydrophobic chargeâ€induction agarose resins with 5â€aminobenzimidazole as a functional ligand. Journal of Separation Science, 2016, 39, 3130-3136.	2.5	10
120	Evaluation of magnetic particles modified with a hydrophobic charge-induction ligand for antibody capture. Journal of Chromatography A, 2016, 1460, 61-67.	3.7	10
121	Fabrication and formation studies on single-walled CA/NaCS-WSC microcapsules. Materials Science and Engineering C, 2016, 59, 909-915.	7.3	10
122	A novel twinâ€column continuous chromatography approach for separation and enrichment of monoclonal antibody charge variants. Engineering in Life Sciences, 2021, 21, 382-391.	3.6	10
123	Preparation and evaluation of mixed-mode resins with tryptophan analogues as functional ligands for human serum albumin separation. Chinese Journal of Chemical Engineering, 2017, 25, 898-905.	3.5	9
124	Integration of Expanded Bed Adsorption and Hydrophobic Charge-Induction Chromatography for Monoclonal Antibody Separation. Industrial & Engineering Chemistry Research, 2017, 56, 765-773.	3.7	9
125	Mathematical modelling of expanded bed adsorptionÂâ€“Âa perspective on in silico process design. Journal of Chemical Technology and Biotechnology, 2018, 93, 1815-1826.	3.2	9
126	Analysis and optimal design of batch and twoâ€column continuous chromatographic frontal processes for monoclonal antibody purification. Biotechnology and Bioengineering, 2021, 118, 3420-3434.	3.3	9

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127	Collection and Purification of Parasporal Crystals fromBacillus thuringiensisby Aqueous Two-Phase Extraction. Separation Science and Technology, 2003, 38, 1665-1680.	2.5	8
128	Target Control of Cell Disruption To Minimize the Biomass Electrostatic Adhesion during Anion-Exchange Expanded Bed Adsorption. Biotechnology Progress, 2007, 23, 162-167.	2.6	8
129	A novel method for the preparation of spherical celluloseâ€tungsten carbide composite matrix with NMMO as nonderivatizing solvent. Journal of Applied Polymer Science, 2011, 121, 2985-2992.	2.6	8
130	Immiscible liquidâ€“liquid slug flow characteristics in the generation of aqueous drops within a rectangular microchannel for preparation of poly(2-hydroxyethylmethacrylate) cryogel beads. Chemical Engineering Research and Design, 2014, 92, 2182-2190.	5.6	8
131	Evaluation of adsorption selectivity of immunoglobulins M, A and G and purification of immunoglobulin M with mixed-mode resins. Journal of Chromatography A, 2018, 1533, 77-86.	3.7	8
132	Downstream processing of virusâ€like particles with aqueous twoâ€phase systems: Applications and challenges. Journal of Separation Science, 2022, 45, 2064-2076.	2.5	8
133	Process Design for Purification of Muscle Lactate Dehydrogenase by Affinity Partitioning Using Free Reactive Dyes. Separation Science and Technology, 1998, 33, 1937-1937.	2.5	7
134	Evaluation and characterization of axial distribution in expanded bed: II. Liquid mixing and local effective axial dispersion. Journal of Chromatography A, 2015, 1393, 65-72.	3.7	7
135	Selectivity evaluation and separation of human immunoglobulin G, Fab and Fc fragments with mixed-mode resins. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1040, 105-111.	2.3	7
136	Model-based evaluation and model-free strategy for process development of three-column periodic counter-current chromatography. Journal of Chromatography A, 2022, 1677, 463311.	3.7	7
137	Partitioning of Proteins using a Hydrophobically Modified Ethylene Oxide/SDS Aqueous Two-phase System. World Journal of Microbiology and Biotechnology, 2005, 21, 1209-1214.	3.6	6
138	Hydrophobic charge-induction chromatographic resin with 5-aminobenzimidazol ligand: Effects of ligand density on protein adsorption. Separation Science and Technology, 2016, 51, 1700-1707.	2.5	6
139	Salt-tolerant mechanism of marine Aspergillus niger cellulase cocktail and improvement of its activity. Chinese Journal of Chemical Engineering, 2020, 28, 1120-1128.	3.5	6
140	Rational design of specific ligands for human serum albumin separation and applications. Journal of Separation Science, 2020, 43, 4028-4035.	2.5	6
141	A novel dextranâ€grafted tetrapeptide resin for antibody purification. Journal of Separation Science, 2020, 43, 3816-3823.	2.5	6
142	Optimizing Dye-Ligand Density with Molecular Analysis for Affinity Chromatography of Rabbit Muscle l-Lactate Dehydrogenase. Biotechnology Progress, 2007, 23, 904-910.	2.6	6
143	Salt-tolerant and thermostable mechanisms of an endoglucanase from marine Aspergillus niger. Bioresources and Bioprocessing, 2022, 9, .	4.2	6
144	Preparation of cellulose adsorbents with ionic liquid and pore expansion for chromatographic applications. Journal of Applied Polymer Science, 2014, 131, .	2.6	5

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145	Determination of Apparent Drug Permeability Coefficients through Chitosan-Sodium Cellulose Sulfate Polyelectrolyte Complex Films. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2014, 30, 365-370.	4.9	5
146	Mixed-Mode Expanded-Bed Adsorption for Human Serum Albumin Separation. Industrial & Engineering Chemistry Research, 2018, 57, 1039-1047.	3.7	5
147	High-Throughput Process Development for Recombinant Human Serum Albumin Separation from Pichia pastoris Broth with Mixed-Mode Chromatography. Industrial & Engineering Chemistry Research, 2019, 58, 3238-3248.	3.7	5
148	Adsorption Characteristics of Human Immunoglobulin G on Five New Tetrapeptide Biomimetic Affinity Resins. Journal of Chemical & Engineering Data, 2019, 64, 1671-1679.	1.9	5
149	Aqueous micellar two-phase system composed of hyamine-type hydrophobically modified ethylene oxide and application for cytochrome P450 BM-3 separation. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 852, 167-173.	2.3	4
150	Experimental and in silico studies on three hydrophobic charge-induction adsorbents for porcine immunoglobulin purification. Chinese Journal of Chemical Engineering, 2016, 24, 151-157.	3.5	4
151	Tetrapeptide ligands screening for antibody separation and purification by molecular simulation and experimental verification. Biochemical Engineering Journal, 2021, 176, 108213.	3.6	4
152	Coadsorption of Human Immunoglobulin G and Bovine Serum Albumin on a p-Aminohippuric Acid Based Mixed-Mode Resin. Journal of Chemical & Engineering Data, 2016, 61, 151-159.	1.9	3
153	Evaluation of Molecular Binding Modes on Site â…¡ of Human Serum Albumin. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2016, 32, 1819-1828.	4.9	3
154	Molecular Simulations on Dynamic Binding of Ibuprofen onto Site II of Human Serum Albumin: One Potential Way Analysis. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2016, 32, 2811-2818.	4.9	3
155	Discovery of extremophilic cellobiohydrolases from marine Aspergillus niger with computational analysis. Process Biochemistry, 2022, 115, 118-127.	3.7	3
156	Fabrication and Characterization of Cryogel Beads and Composite Monoliths. , 2016, , 113-146.		2
157	Optimizing Dye-Ligand Density with Molecular Analysis for Affinity Chromatography of Rabbit Muscle L-Lactate Dehydrogenase. Biotechnology Progress, 2007, 23, 904-910.	2.6	2
158	Study on antibody adsorption and elution performance of carboxyl and hydrophobic groups on mixedâ€•mode ligands. Journal of Separation Science, 2022, 45, 2946-2955.	2.5	2
159	NONUNIFORM HYDRODYNAMICS AND AXIAL DISPERSION BEHAVIORS IN EXPANDED BEDS. , 2004, , .		1
160	PROCESS DESIGN IN EXPANDED BED ADSORPTION - INTEGRATING TARGET ADSORPTION AND BIOMASS INFLUENCE. , 2004, , .		0
161	EXPANDED BED ADSORPTION FOR RECOVERY OF Î±-CHLOROPROPIONIC ACID DEHALOGENASE USING TIO2-DENSIFIED CELLULOSE ADSORBENT. , 2004, , .		0
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