Shan-Jing Yao

List of Publications by Year
in descending order

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170 papers	3,223 citations	172443 29 h-index	276858 41 g-index
172 all docs	172 docs citations	172 times ranked	2883 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	Preparation of ibuprofen-loaded chitosan films for oral mucosal drug delivery using supercritical solution impregnation. International Journal of Pharmaceutics, 2014, 473, 434-441.	5.2	79
3	Microparticle formation of sodium cellulose sulfate using supercritical fluid assisted atomization introduced by hydrodynamic cavitation mixer. Chemical Engineering Journal, 2010, 159, 220-229.	12.7	65
4	Exploring the contributions of two glutamate decarboxylase isozymes in Lactobacillus brevis to acid resistance and Î³-aminobutyric acid production. Microbial Cell Factories, 2018, 17, 180.	4.0	65
5	Review on biomedical and bioengineering applications of cellulose sulfate. Carbohydrate Polymers, 2015, 132, 311-322.	10.2	60
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	Evaluating antibody monomer separation from associated aggregates using mixed-mode chromatography. Journal of Chromatography A, 2013, 1294, 70-75.	3.7	52
11	Preparation and Evaluation of Cellulose Adsorbents for Hydrophobic Charge Induction Chromatography. Industrial & Engineering Chemistry Research, 2008, 47, 9566-9572.	3.7	50
12	Enhancing IgG purification from serum albumin containing feedstock with hydrophobic charge-induction chromatography. Journal of Chromatography A, 2012, 1244, 116-122.	3.7	48
13	Supercritical fluid assisted atomization introduced by hydrodynamic cavitation mixer (SAA-HCM) for micronization of levofloxacin hydrochloride. Journal of Supercritical Fluids, 2008, 43, 524-534.	3.2	47
14	11Î±-Hydroxylation of 16Î±,17-epoxyprogesterone by Rhizopus nigricans in a biphasic ionic liquid aqueous system. Bioresource Technology, 2011, 102, 9368-9373.	9.6	47
15	A Novel, Potential Microflora-Activated Carrier for a Colon-Specific Drug Delivery System and Its Characteristics. Industrial & Engineering Chemistry Research, 2009, 48, 5276-5284.	3.7	46
16	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
17	Pore formation of poly(Îµ-caprolactone) scaffolds with melting point reduction in supercritical CO 2 foaming. Journal of Supercritical Fluids, 2016, 117, 279-288.	3.2	38
18	Supercritical Fluid Extraction and Micronization of Ginkgo Flavonoids from Ginkgo Biloba Leaves. Industrial & Engineering Chemistry Research, 2010, 49, 5461-5466.	3.7	35

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19	Efficient decolorization of dye-containing wastewater using mycelial pellets formed of marine-derived Aspergillus niger. Chinese Journal of Chemical Engineering, 2017, 25, 330-337.	3.5	35
20	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
21	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
22	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
23	Preparation of pH-responsive DOX-loaded chitosan nanoparticles using supercritical assisted atomization with an enhanced mixer. International Journal of Pharmaceutics, 2019, 558, 82-90.	5.2	33
24	Diffusion Coefficients in Intrahollow Calcium Alginate Microcapsules. Journal of Chemical & Engineering Data, 2004, 49, 475-478.	1.9	32
25	A novel polymer-grafted hydrophobic charge-induction chromatographic resin for enhancing protein adsorption capacity. Chemical Engineering Journal, 2016, 304, 251-258.	12.7	32
26	Effect and mechanism of sodium chloride on the formation of chitosanâ€“cellulose sulfateâ€“tripolyphosphate crosslinked beads. Soft Matter, 2013, 9, 10354.	2.7	31
27	Formulation of insulin-loaded N -trimethyl chitosan microparticles with improved efficacy for inhalation by supercritical fluid assisted atomization. International Journal of Pharmaceutics, 2016, 505, 223-233.	5.2	31
28	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
29	Preparation and evaluation of dextran-grafted agarose resin for hydrophobic charge-induction chromatography. Journal of Chromatography A, 2014, 1369, 116-124.	3.7	30
30	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
31	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
32	A mixed-mode resin with tryptamine ligand for human serum albumin separation. Journal of Chromatography A, 2016, 1431, 145-153.	3.7	29
33	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
34	Preparation of chitosan microparticles with diverse molecular weights using supercritical fluid assisted atomization introduced by hydrodynamic cavitation mixer. Powder Technology, 2014, 254, 416-424.	4.2	28
35	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
36	Multimodal charge-induction chromatography for antibody purification. Journal of Chromatography A, 2016, 1429, 258-264.	3.7	28

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37	Physiology-Oriented Engineering Strategy to Improve Gamma-Aminobutyrate Production in Lactobacillus brevis. Journal of Agricultural and Food Chemistry, 2017, 65, 858-866.	5.2	28
38	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
39	Enhancing the activity and thermostability of thermostable Î²-glucosidase from a marine Aspergillus niger at high salinity. Process Biochemistry, 2012, 47, 606-611.	3.7	27
40	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
41	Expression of a bifunctional cellulase with exoglucanase and endoglucanase activities to enhance the hydrolysis ability of cellulase from a marine Aspergillus niger. Process Biochemistry, 2017, 52, 115-122.	3.7	27
42	Morphological study on the pore growth profile of poly(Îµ-caprolactone) bi-modal porous foams using a modified supercritical CO2 foaming process. Journal of Supercritical Fluids, 2019, 143, 72-81.	3.2	27
43	Chromatographic separation of cytidine triphosphate from fermentation broth of yeast using anionâ€exchange cryogel. Journal of Separation Science, 2008, 31, 689-695.	2.5	26
44	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
45	Contribution of the activated catalase to oxidative stress resistance and Î³-aminobutyric acid production in Lactobacillus brevis. International Journal of Food Microbiology, 2016, 238, 302-310.	4.7	26
46	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
47	Spherical celluloseâ€“nickel powder composite matrix customized for expanded bed application. Journal of Applied Polymer Science, 2007, 104, 740-747.	2.6	24
48	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
49	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
50	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
51	Microbial Side-Chain Cleavage of Phytosterols by Mycobacteria in Vegetable Oil/Aqueous Two-Phase System. Applied Biochemistry and Biotechnology, 2014, 174, 522-533.	2.9	24
52	Model-assisted approaches for continuous chromatography: Current situation and challenges. Journal of Chromatography A, 2021, 1637, 461855.	3.7	24
53	Inactivation of Microorganisms in Carbon Dioxide at Elevated Pressure and Ambient Temperature. Industrial & Engineering Chemistry Research, 2007, 46, 6345-6352.	3.7	23
54	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

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55	Biosynthesis of Î³-aminobutyrate by engineered Lactobacillus brevis cells immobilized in gellan gum gel beads. Journal of Bioscience and Bioengineering, 2019, 128, 123-128.	2.2	23
56	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
57	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
58	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
59	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
60	Process development and optimization of continuous capture with threeâ€column periodic counterâ€current chromatography. Biotechnology and Bioengineering, 2021, 118, 3313-3322.	3.3	22
61	Solubility of Dexamethasone in Supercritical Carbon Dioxide with and without a Cosolvent. Journal of Chemical & Engineering Data, 2014, 59, 3359-3364.	1.9	21
62	Fabrication of bimodal porous PLGA scaffolds by supercritical CO₂ foaming/particle leaching technique. Journal of Applied Polymer Science, 2016, 133, .	2.6	21
63	Diffusion Characteristics of Solutes with Low Molecular Weight in Sodium Alginate/Cellulose Sulfateâ^'CaCl2/Poly(methylene-co-guanidine) Capsules. Journal of Chemical & Engineering Data, 2003, 48, 864-868.	1.9	20
64	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
65	Salt-Promoted Adsorption of an Antibody onto Hydrophobic Charge-Induction Adsorbents. Journal of Chemical & Engineering Data, 2010, 55, 5751-5758.	1.9	20
66	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
67	A novel twoâ€species wholeâ€cell immobilization system composed of marineâ€derived fungi and its application in wastewater treatment. Journal of Chemical Technology and Biotechnology, 2014, 89, 1733-1740.	3.2	20
68	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
69	Refolding and purification of recombinant human interferon-Î³ expressed as inclusion bodies inEscherichia coli using size exclusion chromatography. Biotechnology and Bioprocess Engineering, 2005, 10, 122-127.	2.6	19
70	Enhancement of Laccase Activity by Marine-derived Deuteromycete Pestalotiopsis sp. J63 with Agricultural Residues and Inducers. Chinese Journal of Chemical Engineering, 2013, 21, 1182-1189.	3.5	19
71	Bioactive insulin microparticles produced by supercritical fluid assisted atomization with an enhanced mixer. International Journal of Pharmaceutics, 2013, 454, 174-182.	5.2	19
72	Preparation of micrometric powders of parathyroid hormone (PTH1â€“34)-loaded chitosan oligosaccharide by supercritical fluid assisted atomization. International Journal of Pharmaceutics, 2018, 545, 389-394.	5.2	18

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73	Effect of poxB gene knockout on metabolism in Escherichia coli based on growth characteristics and enzyme activities. World Journal of Microbiology and Biotechnology, 2007, 23, 573-580.	3.6	17
74	Supercritical fluid assisted production of micrometric powders of the labile trypsin and chitosan/trypsin composite microparticles. International Journal of Pharmaceutics, 2015, 489, 226-236.	5.2	17
75	Performances of NaCSâ€“WSC protein drug microcapsules with different degree of substitution of NaCS using sodium polyphosphate as cross-linking agent. Cellulose, 2014, 21, 1897-1908.	4.9	16
76	Novel double-walled microspheres based on chitosan, sodium cellulose sulfate and sodium tripolyphosphate: Preparation, characterization and in vitro release study. Korean Journal of Chemical Engineering, 2015, 32, 369-372.	2.7	16
77	Evaluation of Biocompatible Ionic Liquids for Their Application in Phytosterols Bioconversion by Mycobacterium sp. Resting Cells. ACS Sustainable Chemistry and Engineering, 2017, 5, 10702-10709.	6.7	16
78	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
79	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
80	Preparation of polyelectrolyte complex membranes based on sodium cellulose sulfate and poly(dimethyldiallylammonium chloride) and its permeability properties. Journal of Applied Polymer Science, 2009, 112, 402-409.	2.6	15
81	Preparation and characterization of supermacroporous polyacrylamide cryogel beads for biotechnological application. Journal of Applied Polymer Science, 2013, 130, 3082-3089.	2.6	15
82	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
83	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
84	Chromatographic separation of phenyllactic acid from crude broth using cryogels with dual functional groups. Journal of Chromatography A, 2018, 1554, 92-100.	3.7	15
85	Sodium cellulose sulfate: A promising biomaterial used for microcarriersâ€™ designing. Frontiers of Chemical Science and Engineering, 2019, 13, 46-58.	4.4	15
86	Refolding of lysozyme at high concentration in batch and fedbatch operation. Korean Journal of Chemical Engineering, 2002, 19, 871-875.	2.7	14
87	Refolding of lysozyme in vitro assisted by colloidal thermosensitive poly(Nâ€isopropylacrylamide) brushes grafted onto the surface of uniform polystyrene cores. Journal of Applied Polymer Science, 2009, 114, 1270-1277.	2.6	14
88	A Two-stage pH and Temperature Control with Substrate Feeding Strategy for Production of Gamma-aminobutyric Acid by Lactobacillus brevis CGMCC 1306. Chinese Journal of Chemical Engineering, 2013, 21, 1190-1194.	3.5	14
89	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
90	Side-chain cleavage of phytosterols byMycobacteriumsp. MB 3683 in a biphasic ionic liquid/aqueous system. Journal of Chemical Technology and Biotechnology, 2016, 91, 2631-2637.	3.2	14

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91	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
92	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
93	Improvement of Î³-aminobutyrate biosynthesis by genetically engineered Lactococcus lactis. Biochemical Engineering Journal, 2020, 157, 107525.	3.6	14
94	Partial purification of nattokinase from Bacillus subtilis by expanded bed adsorption. Biotechnology Letters, 2000, 22, 1383-1387.	2.2	13
95	A Combined Refolding Technique for Recombinant Human Interferon-Î³ Inclusion Bodies by Ion-exchange Chromatography with a Urea Gradient. World Journal of Microbiology and Biotechnology, 2005, 21, 797-802.	3.6	13
96	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
97	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
98	Supercritical fluid assisted production of chitosan oligomers micrometric powders. Carbohydrate Polymers, 2014, 102, 400-408.	10.2	13
99	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
100	Reconstruction of the glutamate decarboxylase system in Lactococcus lactis for biosynthesis of food-grade Î³-aminobutyric acid. Applied Microbiology and Biotechnology, 2021, 105, 4127-4140.	3.6	13
101	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
102	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
103	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
104	Binary Adsorption Processes of Albumin and Immunoglobulin on Hydrophobic Charge-Induction Resins. Journal of Chemical & Engineering Data, 2016, 61, 1353-1360.	1.9	12
105	Combination of induced autolysis and sodium hypochlorite oxidation for the production of Saccharomyces cerevisiae (1 Â 3)-Î²-D-glucan. World Journal of Microbiology and Biotechnology, 2003, 19, 947-952.	3.6	11
106	Sorption and Diffusion Behavior of Carbon Dioxide into Poly(l-lactic acid) Films at Elevated Pressures. Chinese Journal of Chemical Engineering, 2013, 21, 1296-1302.	3.5	11
107	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
108	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

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109	A Complex Process of Asymmetric Synthesis of Î²-Hydroxy Ester by Baker's Yeast Accompanied by Resin Adsorption. Industrial & Engineering Chemistry Research, 2005, 44, 5411-5416.	3.7	10
110	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
111	Fabrication and formation studies on single-walled CA/NaCS-WSC microcapsules. Materials Science and Engineering C, 2016, 59, 909-915.	7.3	10
112	Effect of Cholinium Amino Acids Ionic Liquids As Cosolvents on the Bioconversion of Phytosterols by Mycobacterium sp. Resting Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 17124-17132.	6.7	10
113	Thermosensitive poly(N-isopropylacrylamide) hydrogel for refolding of recombinant bovine prethrombin-2 fromE. coli inclusion bodies. Journal of Applied Polymer Science, 2005, 96, 1734-1740.	2.6	9
114	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
115	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
116	Removal of dyes from wastewater by growing fungal pellets in a semi-continuous mode. Frontiers of Chemical Science and Engineering, 2017, 11, 338-345.	4.4	9
117	Development and application of hydrophobic charge-induction chromatography for bioseparation. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1134-1135, 121850.	2.3	9
118	Collection and Purification of Parasporal Crystals fromBacillus thuringiensisby Aqueous Two-Phase Extraction. Separation Science and Technology, 2003, 38, 1665-1680.	2.5	8
119	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
120	pH stabilization of lactic acid fermentation via the glutamate decarboxylation reaction: Simultaneous production of lactic acid and Î³-aminobutyric acid. Process Biochemistry, 2015, 50, 1523-1527.	3.7	8
121	Sustained release of dexamethasone from drugâ€loading <scp>PLGA</scp> scaffolds with specific pore structure fabricated by supercritical CO₂ foaming. Journal of Applied Polymer Science, 2018, 135, 46207.	2.6	8
122	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
123	Supercritical CO2 assisted preparation of chitosan-based nano-in-microparticles with potential for efficient pulmonary drug delivery. Journal of CO2 Utilization, 2021, 46, 101486.	6.8	8
124	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
125	Lysozyme refolding at high concentration by dilution and size-exclusion chromatography. Journal of Zhejiang University: Science A, 2003, 4, 136-141.	2.4	7
126	Dehydrogenation of 11Î±â€hydroxyâ€16Î±, 17â€epoxyprogesterone by encapsulated Arthrobacter simplex cells in an aqueous/organic solvent twoâ€liquidâ€phase system. Journal of Chemical Technology and Biotechnology, 2009, 84, 208-214.	3.2	7

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127	Effect of the SA content of a novel thermo-sensitive P(NIPAM-co-SA) copolymer on denatured lysozyme refolding in vitro. Journal of Applied Polymer Science, 2011, 121, 2597-2605.	2.6	7
128	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
129	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
130	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
131	Lipase-Catalyzed Enantioselective Transesterification of Cyanohydrins for the Synthesis of (S)-alpha-Cyano-3-phenoxybenzyl Acetatea. Annals of the New York Academy of Sciences, 1998, 864, 646-648.	3.8	6
132	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
133	Strategy of Combining Prefiltration and Chromatography Using Composite Cryogels for Large-Scale Separation of Biotransformation Compounds from Crude High-Cell-Density Broth. Industrial & Engineering Chemistry Research, 2015, 54, 2564-2572.	3.7	6
134	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
135	Thermostable ethanol tolerant xylanase from a cold-adapted marine species Acinetobacter johnsonii. Chinese Journal of Chemical Engineering, 2019, 27, 1166-1170.	3.5	6
136	Preparation of copolymer-grafted mixed-mode resins for immunoglobulin G adsorption. Frontiers of Chemical Science and Engineering, 2019, 13, 70-79.	4.4	6
137	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
138	Rational design of specific ligands for human serum albumin separation and applications. Journal of Separation Science, 2020, 43, 4028-4035.	2.5	6
139	A novel dextranâ€grafted tetrapeptide resin for antibody purification. Journal of Separation Science, 2020, 43, 3816-3823.	2.5	6
140	Salt-tolerant and thermostable mechanisms of an endoglucanase from marine Aspergillus niger. Bioresources and Bioprocessing, 2022, 9, .	4.2	6
141	Cytotoxic Effect on Cancer Cells and Structural Identification of Phenols from Spatholobi Caulis by HPLC-ESI-MSn. Natural Product Communications, 2009, 4, 1934578X0900400.	0.5	5
142	A combined process of biocatalysis and cell activity regeneration for the asymmetric reduction of 3â€oxo ester with immobilized baker's yeast. Journal of Chemical Technology and Biotechnology, 2009, 84, 186-191.	3.2	5
143	Improvement of hEGF production with enhanced cell division ability using dissolved oxygen responses to pulse addition of tryptone. Biotechnology and Bioprocess Engineering, 2009, 14, 52-59.	2.6	5
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	Effect of the cross-linking agent on performances of NaCS-CS/WSC microcapsules. Colloids and Surfaces B: Biointerfaces, 2016, 147, 416-421.	5.0	5
146	Mixed-Mode Expanded-Bed Adsorption for Human Serum Albumin Separation. Industrial & Engineering Chemistry Research, 2018, 57, 1039-1047.	3.7	5
147	Development of a disposable micro-capillary film grafted with peptide ligands for immunoadsorption. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1129, 121801.	2.3	5
148	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
149	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
150	Comparison of the adsorption characteristics of expanded bed adsorbent with conventional chromatographic adsorbent. Korean Journal of Chemical Engineering, 2001, 18, 357-362.	2.7	4
151	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
152	Optimizing preparation of NaCSâ€“chitosan complex to form a potential material for the colonâ€specific drug delivery system. Journal of Applied Polymer Science, 2010, 117, 3001-3012.	2.6	4
153	Tetrapeptide ligands screening for antibody separation and purification by molecular simulation and experimental verification. Biochemical Engineering Journal, 2021, 176, 108213.	3.6	4
154	Adsorption Performance of Proteins to CM Sepharose FF and DEAE Sepharose FF Adsorbents. Korean Journal of Chemical Engineering, 2003, 20, 93-98.	2.7	3
155	The Effect of Ag+on Arginine Kinase: Inhibition Kinetics. Journal of Biomolecular Structure and Dynamics, 2009, 27, 59-64.	3.5	3
156	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
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