

Abraham M Lenhoff

List of Publications by Year in descending order

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165
papers

9,275
citations

31976

53
h-index

46799

89
g-index

166
all docs

166
docs citations

166
times ranked

6957
citing authors

#	ARTICLE	IF	CITATIONS
1	A class of porous metallic nanostructures. <i>Nature</i> , 1999, 401, 548-548.	27.8	481
2	A Class of Microstructured Particles Through Colloidal Crystallization. <i>Science</i> , 2000, 287, 2240-2243.	12.6	478
3	Colloidal crystals as templates for porous materials. <i>Current Opinion in Colloid and Interface Science</i> , 2000, 5, 56-63.	7.4	342
4	Assembly of Gold Nanostructured Films Templated by Colloidal Crystals and Use in Surface-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2000, 122, 9554-9555.	13.7	329
5	Pore size distributions of cation-exchange adsorbents determined by inverse size-exclusion chromatography. <i>Journal of Chromatography A</i> , 2000, 883, 39-54.	3.7	263
6	Protein Phase Behavior in Aqueous Solutions: Crystallization, Liquid-Liquid Phase Separation, Gels, and Aggregates. <i>Biophysical Journal</i> , 2008, 94, 570-583.	0.5	214
7	Rapid Measurement of Protein Osmotic Second Virial Coefficients by Self-Interaction Chromatography. <i>Biophysical Journal</i> , 2002, 82, 1620-1631.	0.5	201
8	Adsorption of Charged Latex Particles on Mica Studied by Atomic Force Microscopy. <i>Journal of Colloid and Interface Science</i> , 1996, 179, 587-599.	9.4	188
9	Electrostatic and van der Waals contributions to protein adsorption: computation of equilibrium constants. <i>Langmuir</i> , 1993, 9, 962-972.	3.5	159
10	Patterns of protein-protein interactions in salt solutions and implications for protein crystallization. <i>Protein Science</i> , 2007, 16, 1867-1877.	7.6	149
11	Knockout of a difficult-to-remove CHO host cell protein, lipoprotein lipase, for improved polysorbate stability in monoclonal antibody formulations. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1006-1015.	3.3	147
12	Identification and characterization of host cell protein product-associated impurities in monoclonal antibody bioprocessing. <i>Biotechnology and Bioengineering</i> , 2014, 111, 904-912.	3.3	146
13	Pore size distributions of ion exchangers and relation to protein binding capacity. <i>Journal of Chromatography A</i> , 2006, 1126, 107-119.	3.7	138
14	Electrostatic and van der Waals Contributions to Protein Adsorption: Comparison of Theory and Experiment. <i>Langmuir</i> , 1995, 11, 3500-3509.	3.5	134
15	Comparison of protein adsorption isotherms and uptake rates in preparative cation-exchange materials. <i>Journal of Chromatography A</i> , 1998, 827, 281-293.	3.7	126
16	Nondiffusive mechanisms enhance protein uptake rates in ion exchange particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 420-425.	7.1	125
17	2-D and 3-D Interactions in Random Sequential Adsorption of Charged Particles. <i>Journal of Colloid and Interface Science</i> , 1997, 194, 138-153.	9.4	111
18	Protein adsorption and transport in polymer-functionalized ion-exchangers. <i>Journal of Chromatography A</i> , 2011, 1218, 8748-8759.	3.7	109

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19	Determination of pore size distributions of porous chromatographic adsorbents by inverse size-exclusion chromatography. <i>Journal of Chromatography A</i> , 2004, 1037, 273-282.	3.7	106
20	Determinants of protein retention characteristics on cation-exchange adsorbents. <i>Journal of Chromatography A</i> , 2001, 933, 57-72.	3.7	105
21	Grand canonical Brownian dynamics simulation of colloidal adsorption. <i>Journal of Chemical Physics</i> , 1997, 107, 9157-9167.	3.0	103
22	Effects of pH on protein-protein interactions and implications for protein phase behavior. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 600-610.	2.3	103
23	Computation of the electrostatic interaction energy between a protein and a charged surface. <i>The Journal of Physical Chemistry</i> , 1992, 96, 3130-3134.	2.9	100
24	Solvation Free Energy of Amino Acids and Side-Chain Analogues. <i>Journal of Physical Chemistry B</i> , 2007, 111, 2098-2106.	2.6	99
25	Protein adsorption and transport in dextran-modified ion-exchange media. I: Adsorption. <i>Journal of Chromatography A</i> , 2009, 1216, 7774-7784.	3.7	96
26	Correlation between the Osmotic Second Virial Coefficient and the Solubility of Proteins. <i>Biotechnology Progress</i> , 2001, 17, 182-187.	2.6	95
27	Design of resilient processing plants: Process design under consideration of dynamic aspects. <i>Chemical Engineering Science</i> , 1982, 37, 245-258.	3.8	93
28	Drop formation in liquid-liquid systems before and after jetting. <i>Physics of Fluids</i> , 1995, 7, 2617-2630.	4.0	93
29	Hydrophobic interaction chromatography of proteins. <i>Journal of Chromatography A</i> , 2007, 1141, 191-205.	3.7	93
30	Influence of Structural Details in Modeling Electrostatically Driven Protein Adsorption. <i>Langmuir</i> , 1997, 13, 6761-6768.	3.5	91
31	Protein Adsorption Isotherms through Colloidal Energetics. <i>Langmuir</i> , 1999, 15, 3905-3914.	3.5	90
32	Mechanistic model of retention in protein ion-exchange chromatography. <i>Journal of Chromatography A</i> , 1996, 726, 45-56.	3.7	83
33	Expression of difficult-to-remove host cell protein impurities during extended Chinese hamster ovary cell culture and their impact on continuous bioprocessing. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1232-1242.	3.3	83
34	Effects of ionic strength on lysozyme uptake rates in cation exchangers. I: Uptake in SP Sepharose FF. <i>Biotechnology and Bioengineering</i> , 2005, 91, 139-153.	3.3	82
35	Significance and estimation of chromatographic parameters. <i>Journal of Chromatography A</i> , 1987, 384, 285-299.	3.7	79
36	Dynamic breakup of liquid-liquid jets. <i>Physics of Fluids</i> , 1994, 6, 2640-2655.	4.0	79

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37	Sorption processes in ion-exchange chromatography of viruses. <i>Journal of Chromatography A</i> , 2007, 1142, 2-12.	3.7	77
38	Self-interaction chromatography: a novel screening method for rational protein crystallization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1531-1535.	2.5	76
39	Protein adsorption and transport in dextran-modified ion-exchange media. II. Intraparticle uptake and column breakthrough. <i>Journal of Chromatography A</i> , 2011, 1218, 4698-4708.	3.7	71
40	Measurements of protein self-association as a guide to crystallization. <i>Current Opinion in Biotechnology</i> , 2003, 14, 512-516.	6.6	69
41	Effect of pH and Ca ²⁺ -Induced Associations of Soybean Proteins. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 4953-4958.	5.2	68
42	Host cell protein impurities in chromatographic polishing steps for monoclonal antibody purification. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1260-1272.	3.3	68
43	Quantitative imaging by confocal scanning fluorescence microscopy of protein crystallization via liquid-liquid phase separation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 819-825.	2.5	67
44	Predictive crystallization of ribonuclease A via rapid screening of osmotic second virial coefficients. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 50, 303-311.	2.6	66
45	Interactions and phase behavior of a monoclonal antibody. <i>Biotechnology Progress</i> , 2011, 27, 280-289.	2.6	63
46	Direct measurement of protein osmotic second virial cross coefficients by cross-interaction chromatography. <i>Protein Science</i> , 2004, 13, 1379-1390.	7.6	61
47	Self-Interaction Nanoparticle Spectroscopy: A Nanoparticle-Based Protein Interaction Assay. <i>Journal of the American Chemical Society</i> , 2008, 130, 3106-3112.	13.7	61
48	TIRF of salt and surface effects on protein adsorption. <i>Journal of Colloid and Interface Science</i> , 1992, 148, 469-484.	9.4	60
49	Improved Parametric Representation of Water Dielectric Data for Lifshitz Theory Calculations. <i>Journal of Colloid and Interface Science</i> , 1996, 179, 637-639.	9.4	60
50	Nonnative Protein Polymers: Structure, Morphology, and Relation to Nucleation and Growth. <i>Biophysical Journal</i> , 2007, 93, 4392-4403.	0.5	60
51	Adsorbed Layers of Ferritin at Solid and Fluid Interfaces Studied by Atomic Force Microscopy. <i>Journal of Colloid and Interface Science</i> , 2000, 223, 261-272.	9.4	59
52	Modeling of flow in a polymeric chromatographic monolith. <i>Journal of Chromatography A</i> , 2011, 1218, 3466-3475.	3.7	57
53	Excluded volume contribution to the osmotic second virial coefficient for proteins. <i>AIChE Journal</i> , 1995, 41, 1010-1014.	3.6	54
54	Protein adsorption and transport in dextran-modified ion-exchange media. III. Effects of resin charge density and dextran content on adsorption and intraparticle uptake. <i>Journal of Chromatography A</i> , 2011, 1218, 7180-7188.	3.7	54

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55	Protein crystallization by design: chymotrypsinogen without precipitants 1 Edited by I. A. Wilson. <i>Journal of Molecular Biology</i> , 2000, 300, 235-239.	4.2	53
56	Applications of proteomic methods for CHO host cell protein characterization in biopharmaceutical manufacturing. <i>Current Opinion in Biotechnology</i> , 2018, 53, 144-150.	6.6	52
57	Light-Scattering Studies of Protein Solutions: Role of Hydration in Weak Protein-Protein Interactions. <i>Biophysical Journal</i> , 2005, 89, 1564-1573.	0.5	50
58	Three-Dimensional Pore Structure of Chromatographic Adsorbents from Electron Tomography. <i>Langmuir</i> , 2006, 22, 11148-11157.	3.5	50
59	Steady laminar flow of liquidâ€“liquid jets at high Reynolds numbers*. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1703-1717.	1.6	48
60	A Consistent Experimental and Modeling Approach to Light-Scattering Studies of Protein-Protein Interactions in Solution. <i>Biophysical Journal</i> , 2005, 88, 3300-3309.	0.5	48
61	Recovery of Chinese hamster ovary host cell proteins for proteomic analysis. <i>Biotechnology Journal</i> , 2014, 9, 87-99.	3.5	47
62	Calculation of short-range interactions between proteins. <i>Biophysical Chemistry</i> , 1999, 78, 219-231.	2.8	46
63	Effects of pore structure and molecular size on diffusion in chromatographic adsorbents. <i>Journal of Chromatography A</i> , 2006, 1126, 95-106.	3.7	46
64	Modeling of dispersion in a polymeric chromatographic monolith. <i>Journal of Chromatography A</i> , 2012, 1237, 55-63.	3.7	45
65	Electrostatic Contribution to the Energy and Entropy of Protein Adsorption. <i>Journal of Colloid and Interface Science</i> , 1998, 203, 218-221.	9.4	44
66	On-Line Spectroscopic Characterization of Sodium Cyanide with Nanostructured Gold Surface-Enhanced Raman Spectroscopy Substrates. <i>Applied Spectroscopy</i> , 2002, 56, 1524-1530.	2.2	44
67	TIRF of salt and surface effects on protein adsorption. <i>Journal of Colloid and Interface Science</i> , 1992, 148, 485-507.	9.4	43
68	Determination of fluidâ€“solid transitions in model protein solutions using the histogram reweighting method and expanded ensemble simulations. <i>Journal of Chemical Physics</i> , 2004, 120, 3003-3014.	3.0	43
69	Electrostatic Contributions to Protein Retention in Ion-Exchange Chromatography. 1. Cytochrome c Variants. <i>Analytical Chemistry</i> , 2004, 76, 6743-6752.	6.5	43
70	Mechanistic Modeling of Preparative Column Chromatography for Biotherapeutics. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2020, 11, 235-255.	6.8	42
71	A Predictive Approach to Correlating Protein Adsorption Isotherms on Ion-Exchange Media. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1028-1040.	2.6	41
72	Flowâ€“dependent entrapment of large bioparticles in porous process media. <i>Biotechnology and Bioengineering</i> , 2009, 104, 127-133.	3.3	41

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73	Multi-column displacement chromatography for separation of charge variants of monoclonal antibodies. <i>Journal of Chromatography A</i> , 2019, 1586, 40-51.	3.7	41
74	Dispersion coefficient for laminar flow in curved tubes. <i>AIChE Journal</i> , 1988, 34, 2052-2058.	3.6	40
75	Casein precipitation equilibria in the presence of calcium ions and phosphates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003, 29, 297-307.	5.0	39
76	Electrostatic Contributions to Protein Retention in Ion-Exchange Chromatography. 2. Proteins with Various Degrees of Structural Differences. <i>Analytical Chemistry</i> , 2005, 77, 2157-2165.	6.5	39
77	Kinetics and equilibria of lysozyme precipitation and crystallization in concentrated ammonium sulfate solutions. <i>Biotechnology and Bioengineering</i> , 2006, 94, 177-188.	3.3	39
78	Developments and opportunities in continuous biopharmaceutical manufacturing. <i>MAbs</i> , 2021, 13, 1903664.	5.2	39
79	Anisotropic Contributions to Protein-Protein Interactions. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 835-845.	5.3	38
80	STM and AFM in biotechnology. <i>Biotechnology Progress</i> , 1993, 9, 1-11.	2.6	35
81	Effect of Spacer Arm Length on Protein Retention on a Strong Cation Exchange Adsorbent. <i>Analytical Chemistry</i> , 2004, 76, 5816-5822.	6.5	35
82	A patch-antipatch representation of specific protein interactions. <i>Journal of Crystal Growth</i> , 2001, 232, 195-203.	1.5	33
83	Contributions of depth filter components to protein adsorption in bioprocessing. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1938-1948.	3.3	33
84	Multiscale Modeling of Protein Uptake Patterns in Chromatographic Particles. <i>Langmuir</i> , 2008, 24, 5991-5995.	3.5	32
85	Dispersion in laminar flow in short tubes. <i>AIChE Journal</i> , 1989, 35, 2048-2052.	3.6	31
86	Flow in curved ducts. Part 2. Rotating ducts. <i>Journal of Fluid Mechanics</i> , 1990, 217, 575-593.	3.4	31
87	Relating Surfactant Properties to Activity and Solubilization of the Human Adenosine A3 Receptor. <i>Biophysical Journal</i> , 2005, 89, 452-464.	0.5	31
88	Hydrophobic interaction chromatography of proteins. <i>Journal of Chromatography A</i> , 2007, 1141, 235-243.	3.7	31
89	Chromatography of proteins on charge-variant ion exchangers and implications for optimizing protein uptake rates. <i>Journal of Chromatography A</i> , 2007, 1163, 190-202.	3.7	31
90	Effects of Ammonium Sulfate and Sodium Chloride Concentration on PEG/Protein Liquid-Liquid Phase Separation. <i>Langmuir</i> , 2008, 24, 10345-10351.	3.5	31

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91	Relation of structure to performance characteristics of monolithic and perfusive stationary phases. <i>Journal of Chromatography A</i> , 2009, 1216, 6365-6376.	3.7	31
92	Comparative Effects of Salt, Organic, and Polymer Precipitants on Protein Phase Behavior and Implications for Vapor Diffusion. <i>Crystal Growth and Design</i> , 2009, 9, 682-691.	3.0	30
93	Dispersion in round tubes and its implications for extracolumn dispersion. <i>Journal of Chromatography A</i> , 1991, 556, 235-248.	3.7	29
94	Phase equilibria in the lysozyme-ammonium sulfate-water system. <i>Biotechnology and Bioengineering</i> , 2000, 70, 498-506.	3.3	29
95	Salting-in characteristics of globular proteins. <i>Biophysical Chemistry</i> , 2011, 156, 72-78.	2.8	28
96	Energetic and Entropic Contributions to the Interaction of Unequal Spherical Double Layers. <i>Journal of Colloid and Interface Science</i> , 1994, 165, 177-194.	9.4	27
97	Binding of Alkyl Polyglucoside Surfactants to Bacteriorhodopsin and its Relation to Protein Stability. <i>Biophysical Journal</i> , 2008, 94, 3647-3658.	0.5	27
98	Insights into Protein Sorption and Desorption on Dextran-Modified Ion-Exchange Media. <i>Chemical Engineering and Technology</i> , 2012, 35, 91-101.	1.5	27
99	Robust mechanistic modeling of protein ion-exchange chromatography. <i>Journal of Chromatography A</i> , 2021, 1660, 462669.	3.7	27
100	Electrical Double-Layer Interaction between Heterogeneously Charged Colloidal Particles: A Superposition Formulation. <i>Journal of Colloid and Interface Science</i> , 1998, 201, 233-243.	9.4	26
101	Effect of Gravity on Colloidal Deposition Studied by Atomic Force Microscopy. <i>Journal of Colloid and Interface Science</i> , 2001, 240, 9-16.	9.4	26
102	Toward in silico CMC: An industrial collaborative approach to model-based process development. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3986-4000.	3.3	26
103	Hydrophobic interaction chromatography of proteins. <i>Journal of Chromatography A</i> , 2008, 1205, 46-59.	3.7	25
104	Binary adsorption of globular proteins on ion-exchange media. <i>Journal of Chromatography A</i> , 2009, 1216, 6177-6195.	3.7	24
105	Effects of Urea on the Microstructure and Phase Behavior of Aqueous Solutions of Poly(oxyethylene) Surfactants. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 85-96.	3.7	23
106	Use of moments to characterize mass transport in steady flows of arbitrary complexity. <i>Chemical Engineering Science</i> , 1982, 37, 954-956.	3.8	22
107	Mobility of Adsorbed Proteins Studied by Fluorescence Recovery after Photobleaching. <i>Langmuir</i> , 2003, 19, 3705-3711.	3.5	22
108	The role of protein and surfactant interactions in membrane-protein crystallization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 724-730.	2.5	22

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109	A critical examination of the decoupling approximation for small-angle scattering from hard ellipsoids of revolution. <i>Journal of Applied Crystallography</i> , 2016, 49, 1734-1739.	4.5	22
110	Effects of additives on surfactant phase behavior relevant to bacteriorhodopsin crystallization. <i>Protein Science</i> , 2006, 15, 2682-2696.	7.6	21
111	A comparative study of monoclonal antibodies. 1. phase behavior and protein-protein interactions. <i>Biotechnology Progress</i> , 2015, 31, 268-276.	2.6	21
112	The effects of axial diffusion and permeability barriers on the transient response of tissue cylinders. I. Solution in transform space. <i>Journal of Theoretical Biology</i> , 1982, 97, 663-677.	1.7	20
113	Molecular thermodynamic properties of protein solutions from partial specific volumes. <i>AIChE Journal</i> , 1995, 41, 1005-1009.	3.6	20
114	Salting-Out of Lysozyme and Ovalbumin from Mixtures: Predicting Precipitation Performance from Protein-Protein Interactions. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 5203-5213.	3.7	19
115	Ion-exchange chromatography of proteins: the inside story. <i>Materials Today: Proceedings</i> , 2016, 3, 3559-3567.	1.8	19
116	Estimating and leveraging protein diffusion on ion-exchange resin surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7004-7010.	7.1	19
117	The effects of axial diffusion and permeability barriers on the transient response of tissue cylinders. II. Solution in time domain. <i>Journal of Theoretical Biology</i> , 1984, 106, 207-238.	1.7	18
118	Characterization and Suitability of Therapeutic Antibody Dense Phases for Subcutaneous Delivery. <i>Molecular Pharmaceutics</i> , 2013, 10, 3582-3591.	4.6	18
119	Ionic strength-dependent changes in tentacular ion exchangers with variable ligand density. II. Functional properties. <i>Journal of Chromatography A</i> , 2017, 1506, 55-64.	3.7	18
120	Measured and calculated effects of mutations in bacteriophage T4 lysozyme on interactions in solution. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000, 41, 123-132.	2.6	17
121	Optimization of protein sample preparation for two-dimensional electrophoresis. <i>Electrophoresis</i> , 2012, 33, 1947-1957.	2.4	17
122	Polymorphic Protein Crystal Growth: Influence of Hydration and Ions in Glucose Isomerase. <i>Crystal Growth and Design</i> , 2014, 14, 46-57.	3.0	17
123	Partitioning of host and recombinant cells in aqueous two-phase polymer systems. <i>Biotechnology and Bioengineering</i> , 1990, 36, 484-492.	3.3	16
124	Correlation of diafiltration sieving behavior of lysozyme-BSA mixtures with osmotic second virial cross-coefficients. <i>Biotechnology and Bioengineering</i> , 2004, 87, 303-310.	3.3	16
125	Relative retention of the fibroblast growth factors FGF-1 and FGF-2 on strong cation-exchange sorbents. <i>Journal of Chromatography A</i> , 2004, 1036, 51-60.	3.7	16
126	Characterization of cross-linked cellulosic ion-exchange adsorbents: 1. Structural properties. <i>Journal of Chromatography A</i> , 2013, 1319, 46-56.	3.7	16

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127	Ionic strength-dependent changes in tentacular ion exchangers with variable ligand density. I. Structural properties. <i>Journal of Chromatography A</i> , 2016, 1463, 90-101.	3.7	16
128	Determinants of protein elution rates from preparative ion-exchange adsorbents. <i>Journal of Chromatography A</i> , 2016, 1440, 94-104.	3.7	16
129	Measurement of mobility of adsorbed colloids by lateral force microscopy. <i>Journal of Colloid and Interface Science</i> , 2003, 267, 352-359.	9.4	15
130	Hydrophobic interaction chromatography of proteins. IV. Protein adsorption capacity and transport in preparative mode. <i>Journal of Chromatography A</i> , 2011, 1218, 427-440.	3.7	15
131	Silica-based strong anion exchange media for protein purification. <i>Journal of Chromatography A</i> , 2015, 1376, 53-63.	3.7	15
132	Characterization of dextran-grafted hydrophobic charge-induction resins: Structural properties, protein adsorption and transport. <i>Journal of Chromatography A</i> , 2017, 1517, 44-53.	3.7	15
133	DNA retention on depth filters. <i>Journal of Membrane Science</i> , 2019, 570-571, 464-471.	8.2	15
134	Self-interaction chromatography of proteins on a microfluidic monolith. <i>Biochemical Engineering Journal</i> , 2011, 53, 216-222.	3.6	14
135	Shrinking-core modeling of binary chromatographic breakthrough. <i>Journal of Chromatography A</i> , 2011, 1218, 2222-2231.	3.7	14
136	Local Crystalline Structure in an Amorphous Protein Dense Phase. <i>Biophysical Journal</i> , 2015, 109, 1716-1723.	0.5	14
137	Towards continuous mAb purification: Clearance of host cell proteins from CHO cell culture harvests via "flow" through affinity chromatography using peptide-based adsorbents. <i>Biotechnology and Bioengineering</i> , 2022, 119, 1873-1889.	3.3	14
138	Characterization of cross-linked cellulosic ion-exchange adsorbents: 2. Protein sorption and transport. <i>Journal of Chromatography A</i> , 2016, 1438, 100-112.	3.7	13
139	Effects of Resin Architecture and Protein Size on Nanoscale Protein Distribution in Ion-Exchange Media. <i>Langmuir</i> , 2018, 34, 673-684.	3.5	13
140	The Combined Simulation Approach of Atomistic and Continuum Models for the Thermodynamics of Lysozyme Crystals. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19507-19515.	2.6	12
141	Roles of Additives and Precipitants in Crystallization of Calcium- and Integrin-Binding Protein. <i>Crystal Growth and Design</i> , 2005, 5, 1499-1507.	3.0	12
142	Characterization of Protein "Excipient Microheterogeneity in Biopharmaceutical Solid-State Formulations by Confocal Fluorescence Microscopy. <i>Molecular Pharmaceutics</i> , 2017, 14, 546-553.	4.6	12
143	Displacement to separate host cell proteins and aggregates in cation exchange chromatography of monoclonal antibodies. <i>Biotechnology and Bioengineering</i> , 2021, 118, 164-174.	3.3	12
144	Role of competitive interactions in growth rate trends of subtilisin s88 crystals. <i>Journal of Crystal Growth</i> , 2000, 212, 543-554.	1.5	11

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145	Characterization of lysozyme adsorption in cellulosic chromatographic materials using small-angle neutron scattering. <i>Journal of Chromatography A</i> , 2015, 1399, 45-52.	3.7	11
146	Molecular Effects of Anionic Surfactants on Lysozyme Precipitation and Crystallization. <i>Crystal Growth and Design</i> , 2005, 5, 351-359.	3.0	10
147	Convective dispersion and interphase mass transfer. <i>Chemical Engineering Science</i> , 1986, 41, 2795-2810.	3.8	9
148	Effect of bioparticle size on dispersion and retention in monolithic and perfusive beds. <i>Journal of Chromatography A</i> , 2010, 1217, 7372-7384.	3.7	9
149	Characterization of Phase Separation in Mixed Surfactant Films by Liquid Tapping Mode Atomic Force Microscopy. <i>Langmuir</i> , 1999, 15, 3021-3025.	3.5	8
150	Polyhedral Instability of Glucose Isomerase Crystals as Revealed by Confocal Scanning Fluorescence Microscopy. <i>Crystal Growth and Design</i> , 2007, 7, 1411-1415.	3.0	8
151	Self-Assembly of Medium-Chain Alkyl Monoglucosides in Ammonium Sulfate Solutions with Poly(ethylene glycol). <i>Langmuir</i> , 2007, 23, 5358-5366.	3.5	8
152	In Situ Characterization of the Microstructural Evolution of Biopharmaceutical Solid-State Formulations with Implications for Protein Stability. <i>Molecular Pharmaceutics</i> , 2019, 16, 173-183.	4.6	8
153	A natural interaction: Chemical engineering and molecular biophysics. <i>AIChE Journal</i> , 2003, 49, 806-812.	3.6	6
154	Data-Driven Development of Predictive Models for Sustained Drug Release. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 3582-3591.	3.3	4
155	Behavior of weakly adsorbing protein impurities in flow-through ion-exchange chromatography. <i>Journal of Chromatography A</i> , 2022, 1664, 462788.	3.7	4
156	Assembly of gold nanostructured films templated by colloidal crystals and use in surface-enhanced Raman spectroscopy. , 2002, , .		3
157	Erratum to "Determination of pore size distributions of porous chromatographic adsorbents by inverse size-exclusion chromatography" [J. Chromatogr. A 1037 (2004) 273-282]. <i>Journal of Chromatography A</i> , 2006, 1113, 259.	3.7	3
158	Implications of turbulent flow in connecting capillaries used in high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2018, 1536, 185-194.	3.7	3
159	Mechanisms of precipitate formation during the purification of an Fc-fusion protein. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2489-2503.	3.3	3
160	Design of PLGA-Based Drug Delivery Systems Using a Physically-Based Sustained Release Model. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 345-357.	3.3	3
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165	Contributions of Depth Filter Components to Protein Adsorption in Protein Bioprocessing. <i>Biotechnology and Bioengineering</i> , 0, , .	3.3	0