

Massimo Morbidelli

List of Publications by Year in descending order

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333
papers

10,983
citations

34105

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80
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351
all docs

351
docs citations

351
times ranked

7701
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional-Hybrid modeling through automated adaptive symbolic regression for interpretable mathematical expressions. Chemical Engineering Journal, 2022, 430, 133032.	12.7	13
2	Synthesis and Application of Hydrophilic Polymer Nanoparticles for Water Shut-Off. Energy & Fuels, 2022, 36, 1874-1881.	5.1	2
3	Continuous countercurrent chromatographic twin-column purification of oligonucleotides: The role of the displacement effect. Biotechnology and Bioengineering, 2022, 119, 1861-1872.	3.3	5
4	Machine Learning for Biologics: Opportunities for Protein Engineering, Developability, and Formulation. Trends in Pharmacological Sciences, 2021, 42, 151-165.	8.7	94
5	Analysis and optimal design of batch and two-column continuous chromatographic frontal processes for monoclonal antibody purification. Biotechnology and Bioengineering, 2021, 118, 3420-3434.	3.3	9
6	Process Intensification for the Purification of Peptidomimetics: The Case of Icatibant through Multicolumn Countercurrent Solvent Gradient Purification (MCSGP). Industrial & Engineering Chemistry Research, 2021, 60, 6826-6834.	3.7	13
7	Experimental Design of the Multicolumn Countercurrent Solvent Gradient Purification (MCSGP) Unit for the Separation of PEGylated Proteins. Industrial & Engineering Chemistry Research, 2021, 60, 10764-10776.	3.7	13
8	Hybrid Models Based on Machine Learning and an Increasing Degree of Process Knowledge: Application to Capture Chromatographic Step. Industrial & Engineering Chemistry Research, 2021, 60, 10466-10478.	3.7	29
9	Hybrid Models for the simulation and prediction of chromatographic processes for protein capture. Journal of Chromatography A, 2021, 1650, 462248.	3.7	40
10	Design of Biopharmaceutical Formulations Accelerated by Machine Learning. Molecular Pharmaceutics, 2021, 18, 3843-3853.	4.6	25
11	Hybrid modeling "a key enabler towards realizing digital twins in biopharma". Current Opinion in Chemical Engineering, 2021, 34, 100715.	7.8	25
12	Bioprocessing in the Digital Age: The Role of Process Models. Biotechnology Journal, 2020, 15, e1900172.	3.5	147
13	Modeling the nonlinear behavior of a bioactive peptide in reversed-phase gradient elution chromatography. Journal of Chromatography A, 2020, 1616, 460789.	3.7	14
14	Process intensification by frontal chromatography: Performance comparison of resin and membrane adsorber for monovalent antibody aggregate removal. Biotechnology and Bioengineering, 2020, 117, 662-672.	3.3	19
15	Understanding mAb aggregation during low pH viral inactivation and subsequent neutralization. Biotechnology and Bioengineering, 2020, 117, 687-700.	3.3	32
16	Modern trends in downstream processing of biotherapeutics through continuous chromatography: The potential of Multicolumn Countercurrent Solvent Gradient Purification. TrAC - Trends in Analytical Chemistry, 2020, 132, 116051.	11.4	29
17	Perfusion Mammalian Cell Culture for Recombinant Protein Manufacturing. , 2020, , 1-19.		0
18	Perfusion Bioreactors:The Set-Up and Process Characterisation. , 2020, , 20-45.		0

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19	Scale-Down Models and Sensors for Process Development. , 2020, , 46-66.		0
20	Design and Optimisation of Mammalian Cell Perfusion Cultures. , 2020, , 67-99.		1
21	Clinical- and Commercial-Scale Reactors. , 2020, , 100-137.		0
22	Mechanistic and Statistical Modelling of Bioprocesses. , 2020, , 138-173.		0
23	Readily Adsorbable Thermoresponsive Polymers for the Preparation of Smart Cell-Culturing Surfaces on Site. ACS Biomaterials Science and Engineering, 2020, 6, 5337-5345.	5.2	8
24	Encapsulation of octenidine hydrochloride into bioresorbable polyesters for extended antimicrobial activity. European Polymer Journal, 2020, 138, 109987.	5.4	5
25	Cell culture process metabolomics together with multivariate data analysis tools opens new routes for bioprocess development and glycosylation prediction. Biotechnology Progress, 2020, 36, e3012.	2.6	23
26	Model based strategies towards protein A resin lifetime optimization and supervision. Journal of Chromatography A, 2020, 1625, 461261.	3.7	14
27	Monitoring Parallel Robotic Cultivations with Online Multivariate Analysis. Processes, 2020, 8, 582.	2.8	10
28	From batch to continuous chromatographic purification of a therapeutic peptide through multicolumn countercurrent solvent gradient purification. Journal of Chromatography A, 2020, 1625, 461304.	3.7	19
29	Current trends in the production of biodegradable bioplastics: The case of polyhydroxyalkanoates. Biotechnology Advances, 2020, 42, 107582.	11.7	61
30	Process-wide control and automation of an integrated continuous manufacturing platform for antibodies. Biotechnology and Bioengineering, 2020, 117, 1367-1380.	3.3	73
31	Design space and robustness analysis of batch and counter-current frontal chromatography processes for the removal of antibody aggregates. Journal of Chromatography A, 2020, 1619, 460943.	3.7	22
32	Oligonucleotides: Current Trends and Innovative Applications in the Synthesis, Characterization, and Purification. Biotechnology Journal, 2020, 15, e1900226.	3.5	32
33	Hybrid-CKF: Hybrid model coupled with extended Kalman filter for real-time monitoring and control of mammalian cell culture. Biotechnology and Bioengineering, 2020, 117, 2703-2714.	3.3	48
34	Development of Mammalian Cell Perfusion Cultures at Lab Scale: From Orbitally Shaken Tubes to Benchtop Bioreactors. Methods in Molecular Biology, 2020, 2095, 125-140.	0.9	3
35	Maltodextrin as stabilizer for emulsion polymerization: Adsorption and grafting behavior. Journal of Polymer Science, 2020, 58, 1642-1654.	3.8	3
36	Improved Performance in Mammalian Cell Perfusion Cultures by Growth Inhibition. Biotechnology Journal, 2019, 14, e1700722.	3.5	43

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37	Synthesis of Strong Cation Exchange Macroporous Polymer Cluster for Convective Protein Chromatography. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900311.	3.6	4
38	A two-step procedure for the design of perfusion bioreactors. <i>Biochemical Engineering Journal</i> , 2019, 151, 107295.	3.6	19
39	Aggregation of stable colloidal dispersion under short high-shear microfluidic conditions. <i>Chemical Engineering Journal</i> , 2019, 378, 122225.	12.7	6
40	Recovery of Mineral Oil from Underground Electrical Cables. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2357.	2.6	2
41	A new generation of predictive models: The added value of hybrid models for manufacturing processes of therapeutic proteins. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2540-2549.	3.3	82
42	Monitoring of antibody glycosylation pattern based on microarray MALDI-TOF mass spectrometry. <i>Journal of Biotechnology</i> , 2019, 302, 77-84.	3.8	5
43	Expansion processes for cell-based therapies. <i>Biotechnology Advances</i> , 2019, 37, 107455.	11.7	15
44	Macroporous Polymer-Protein Hybrid Materials for Antibody Purification by Combination of Reactive Gelation and Click-Chemistry. <i>Materials</i> , 2019, 12, 1580.	2.9	7
45	Perfusion cell culture for the production of conjugated recombinant fusion proteins reduces clipping and quality heterogeneity compared to batch-mode processes. <i>Journal of Biotechnology</i> , 2019, 302, 26-31.	3.8	35
46	Microcapsules: Reactive Gelation Synthesis of Monodisperse Polymeric Capsules Using Droplet-Based Microfluidics (<i>Adv. Mater. Technol.</i> 6/2019). <i>Advanced Materials Technologies</i> , 2019, 4, 1970032.	5.8	1
47	Process for Continuous Fab Production by Digestion of IgG. <i>Biotechnology Journal</i> , 2019, 14, e1800677.	3.5	11
48	Ziegler-Natta catalyst sonofragmentation for controlling size and size distribution of the produced polymer particles. <i>AIChE Journal</i> , 2019, 65, e16676.	3.6	3
49	A new flow cell and chemometric protocol for implementing in-line Raman spectroscopy in chromatography. <i>Biotechnology Progress</i> , 2019, 35, e2847.	2.6	42
50	Reactive Gelation Synthesis of Monodisperse Polymeric Capsules Using Droplet-Based Microfluidics. <i>Advanced Materials Technologies</i> , 2019, 4, 1900092.	5.8	9
51	Transcriptome and proteome analysis of steady-state in a perfusion CHO cell culture process. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1959-1972.	3.3	11
52	Process design and development of a mammalian cell perfusion culture in shake-tube and benchtop bioreactors. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1973-1985.	3.3	25
53	Decision Tree-PLS (DT-PLS) algorithm for the development of process: Specific local prediction models. <i>Biotechnology Progress</i> , 2019, 35, e2818.	2.6	29
54	Experimental Evaluation of the Impact of Intrinsic Process Parameters on the Performance of a Continuous Chromatographic Polishing Unit (MCSGP). <i>Biotechnology Journal</i> , 2019, 14, e1800732.	3.5	17

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55	Guaiacol hydrodeoxygenation as a model for lignin upgrading. Role of the support surface features on Ni-based alumina-silica catalysts. <i>Fuel</i> , 2019, 243, 501-508.	6.4	47
56	Semi-continuous scale-down models for clone and operating parameter screening in perfusion bioreactors. <i>Biotechnology Progress</i> , 2019, 35, e2790.	2.6	25
57	Combining Mechanistic Modeling and Raman Spectroscopy for Monitoring Antibody Chromatographic Purification. <i>Processes</i> , 2019, 7, 683.	2.8	27
58	<i>110th</i> Anniversary</i>: Fast and Easy-to-Use Method for Coating Tissue Culture Polystyrene Surfaces with Nonfouling Copolymers To Prevent Cell Adhesion. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22290-22298.	3.7	8
59	Control of Small-Scale Chromatographic Systems Under Disturbances. <i>Computer Aided Chemical Engineering</i> , 2019, 47, 269-274.	0.5	4
60	Insight into the Synthesis Process of an Industrial Ziegler-Natta Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 886-896.	3.7	22
61	Model-assisted process characterization and validation for a continuous two-column protein A capture process. <i>Biotechnology and Bioengineering</i> , 2019, 116, 87-98.	3.3	28
62	Purification of Human Monoclonal Antibodies and Their Fragments. <i>Methods in Molecular Biology</i> , 2019, 1904, 163-188.	0.9	8
63	Readily prepared biodegradable nanoparticles to formulate poorly water soluble drugs improving their pharmacological properties: The example of trabectedin. <i>Journal of Controlled Release</i> , 2018, 276, 140-149.	9.9	12
64	The Effect of Residence Time Distribution on the Slurry-Phase Catalytic Ethylene Polymerization: An Experimental and Computational Study. <i>Macromolecular Reaction Engineering</i> , 2018, 12, 1700058.	1.5	8
65	Preparation of perfusive chromatographic materials via shear-induced reactive gelation. <i>Journal of Chromatography A</i> , 2018, 1538, 25-33.	3.7	7
66	Control of Pore Structure in Polymeric Monoliths Prepared from Colloidal Dispersions. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700417.	3.6	8
67	Experimental and CFD physical characterization of animal cell bioreactors: From micro- to production scale. <i>Biochemical Engineering Journal</i> , 2018, 131, 84-94.	3.6	73
68	Sequential Multivariate Cell Culture Modeling at Multiple Scales Supports Systematic Shaping of a Monoclonal Antibody Toward a Quality Target. <i>Biotechnology Journal</i> , 2018, 13, e1700461.	3.5	47
69	Continuous integrated manufacturing of therapeutic proteins. <i>Current Opinion in Biotechnology</i> , 2018, 53, 76-84.	6.6	99
70	Proteomic analysis of micro-scale bioreactors as scale-down model for a mAb producing CHO industrial fed-batch platform. <i>Journal of Biotechnology</i> , 2018, 279, 27-36.	3.8	18
71	Incorporation and distribution of noble metal atoms in polyacrylonitrile colloidal particles using different polymerization strategies. <i>Polymer</i> , 2018, 145, 41-53.	3.8	3
72	Polyacrylonitrile Nanoparticle-Derived Hierarchical Structure for CO ₂ Capture. <i>Energy Technology</i> , 2018, 6, 718-727.	3.8	16

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73	Effect of the charge interactions on the composition behavior of acrylamide/acrylic acid copolymerization in aqueous medium. <i>European Polymer Journal</i> , 2018, 98, 302-312.	5.4	8
74	Research Update: Distribution and stabilization of Pd catalysts in porous carbon-based supports by aggregation of pre-doped colloidal particles. <i>APL Materials</i> , 2018, 6, 100704.	5.1	1
75	Accelerated Bioprocess Development of Endopolygalacturonase-Production with <i>Saccharomyces cerevisiae</i> Using Multivariate Prediction in a 48 Mini-Bioreactor Automated Platform. <i>Bioengineering</i> , 2018, 5, 101.	3.5	19
76	Effect of SiO ₂ Nanoparticles on the Performance of PVdF-HFP/Ionic Liquid Separator for Lithium-Ion Batteries. <i>Nanomaterials</i> , 2018, 8, 926.	4.1	25
77	Glycosylation Flux Analysis of Immunoglobulin G in Chinese Hamster Ovary Perfusion Cell Culture. <i>Processes</i> , 2018, 6, 176.	2.8	14
78	Continuous and Integrated Expression and Purification of Recombinant Antibodies. <i>Methods in Molecular Biology</i> , 2018, 1850, 147-178.	0.9	7
79	Current status and future challenges in continuous biochromatography. <i>Current Opinion in Chemical Engineering</i> , 2018, 22, 138-144.	7.8	38
80	Core-Shell Morphology of Redispersible Powders in Polymer-Cement Waterproof Mortars. <i>Polymers</i> , 2018, 10, 1122.	4.5	16
81	Model assisted comparison of Protein A resins and multi-column chromatography for capture processes. <i>Journal of Biotechnology</i> , 2018, 285, 64-73.	3.8	34
82	Calixarene-immobilized monolithic cryogels for preparative protein chromatography. <i>Journal of Chromatography A</i> , 2018, 1558, 59-68.	3.7	18
83	Reaction kinetics and simulations of ring-opening polymerization for the synthesis of polybutylene terephthalate. <i>Polymer</i> , 2018, 146, 120-132.	3.8	12
84	Synthesis of Cyclic (Ethylene Furanoate) Oligomers via Cyclodepolymerization. <i>Macromolecular Reaction Engineering</i> , 2018, 12, 1800018.	1.5	14
85	Development of a shake tube-based scale-down model for perfusion cultures. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2703-2713.	3.3	35
86	Self-Assembling PCL-Based Nanoparticles as PTX Solubility Enhancer Excipients. <i>Macromolecular Bioscience</i> , 2018, 18, e1800164.	4.1	9
87	Bottle-grade polyethylene furanoate from ring-opening polymerisation of cyclic oligomers. <i>Nature Communications</i> , 2018, 9, 2701.	12.8	145
88	Perfusion mammalian cell culture for recombinant protein manufacturing – A critical review. <i>Biotechnology Advances</i> , 2018, 36, 1328-1340.	11.7	171
89	Intensified Production of Recombinant Proteins. <i>RSC Green Chemistry</i> , 2018, , 327-343.	0.1	0
90	Effects of Coalescence on Shear-Induced Gelation of Colloids. <i>Langmuir</i> , 2017, 33, 1180-1188.	3.5	4

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91	Ion Exclusion Chromatography: Model Development and Experimental Evaluation. Industrial & Engineering Chemistry Research, 2017, 56, 1621-1632.	3.7	12
92	Intelligent, model-based control towards the intensification of downstream processes. Computers and Chemical Engineering, 2017, 105, 173-184.	3.8	18
93	Modulation and modeling of monoclonal antibody N-linked glycosylation in mammalian cell perfusion reactors. Biotechnology and Bioengineering, 2017, 114, 1978-1990.	3.3	72
94	Why Wasn't My Manuscript Sent Out for Review?. Industrial & Engineering Chemistry Research, 2017, 56, 7109-7111.	3.7	5
95	Enhanced process understanding and multivariate prediction of the relationship between cell culture process and monoclonal antibody quality. Biotechnology Progress, 2017, 33, 1368-1380.	2.6	54
96	Relating saturation capacity to charge density in strong cation exchangers. Journal of Chromatography A, 2017, 1507, 95-103.	3.7	6
97	Recovery of monosaccharides from lignocellulosic hydrolysates by ion exclusion chromatography. Journal of Chromatography A, 2017, 1496, 25-36.	3.7	13
98	Experimental design of a twin-column countercurrent gradient purification process. Journal of Chromatography A, 2017, 1492, 19-26.	3.7	58
99	Intracellular CHO Cell Metabolite Profiling Reveals Steady-State Dependent Metabolic Fingerprints in Perfusion Culture. Biotechnology Progress, 2017, 33, 879-890.	2.6	44
100	Biocompatible Polymer Nanoformulation To Improve the Release and Safety of a Drug Mimic Molecule Detectable via ICP-MS. Molecular Pharmaceutics, 2017, 14, 124-134.	4.6	20
101	Adsorption Behavior of Charge Isoforms of Monoclonal Antibodies on Strong Cation Exchangers. Biotechnology Journal, 2017, 12, 1700123.	3.5	3
102	Isotope labeling to determine the dynamics of metabolic response in CHO cell perfusion bioreactors using MALDI-TOF-MS. Biotechnology Progress, 2017, 33, 1630-1639.	2.6	28
103	Reactive separation processes for the production of PEGylated proteins. Current Opinion in Colloid and Interface Science, 2017, 31, 86-91.	7.4	7
104	Thermoresponsive Stability of Colloids in Butyl Acetate/Ethanol Binary Solvent Realized by Grafting Linear Acrylate Copolymers. Langmuir, 2017, 33, 9687-9693.	3.5	1
105	Design and operation of a continuous integrated monoclonal antibody production process. Biotechnology Progress, 2017, 33, 1303-1313.	2.6	106
106	NMR Metabolomics for Stem Cell type discrimination. Scientific Reports, 2017, 7, 15808.	3.3	14
107	Equilibrium Theory Based Design Space for the Multicolumn Countercurrent Solvent Gradient Purification Process. Industrial & Engineering Chemistry Research, 2017, 56, 13482-13489.	3.7	24
108	Influence of protein/glycan interaction on site-specific glycan heterogeneity. FASEB Journal, 2017, 31, 4623-4635.	0.5	37

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109	Diffusion (DOSY) ¹ H NMR as an Alternative Method for Molecular Weight Determination of Poly(ethylene furanoate) (PEF) Polyesters. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600436.	2.2	28
110	Process performance and product quality in an integrated continuous antibody production process. <i>Biotechnology and Bioengineering</i> , 2017, 114, 298-307.	3.3	115
111	Modeling of Polyolefin Polymerization in Semibatch Slurry Reactors: Experiments and Simulations. <i>Macromolecular Reaction Engineering</i> , 2017, 11, 1600036.	1.5	10
112	Robust factor selection in early cell culture process development for the production of a biosimilar monoclonal antibody. <i>Biotechnology Progress</i> , 2017, 33, 181-191.	2.6	33
113	Tracking of Fluorescently Labeled Polymer Particles Reveals Surface Effects during Shear-Controlled Aggregation. <i>Langmuir</i> , 2017, 33, 14038-14044.	3.5	8
114	The Generalized Stability Model and Its Applications in Polymer Colloids. <i>Advances in Polymer Science</i> , 2017, , 79-104.	0.8	0
115	Controlling the time evolution of mAb N-glycosylation, Part I: Microbioreactor experiments. <i>Biotechnology Progress</i> , 2016, 32, 1123-1134.	2.6	43
116	Controlling the time evolution of mAb N-glycosylation – Part II: Model-based predictions. <i>Biotechnology Progress</i> , 2016, 32, 1135-1148.	2.6	53
117	Model-based high-throughput design of ion exchange protein chromatography. <i>Journal of Chromatography A</i> , 2016, 1459, 67-77.	3.7	17
118	Small interfering RNA delivery through positively charged polymer nanoparticles. <i>Nanotechnology</i> , 2016, 27, 125102.	2.6	10
119	Population-balance description of shear-induced clustering, gelation and suspension viscosity in sheared DLVO colloids. <i>Soft Matter</i> , 2016, 12, 5313-5324.	2.7	18
120	Pilot-scale verification of maximum tolerable hydrodynamic stress for mammalian cell culture. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 3489-3498.	3.6	24
121	Model based adaptive control of a continuous capture process for monoclonal antibodies production. <i>Journal of Chromatography A</i> , 2016, 1444, 50-56.	3.7	89
122	Introduction to “Fundamentals of Preparative and Nonlinear Chromatography” by G. Guiochon, A. Felinger, D.G. Shirazi [Elsevier, Amsterdam, 2nd ed., 2006, Ch. 1]. <i>Journal of Chromatography A</i> , 2016, 1446, 10.	3.7	4
123	A reactive continuous chromatographic process for protein PEGylation. <i>Reaction Chemistry and Engineering</i> , 2016, 1, 218-228.	3.7	10
124	Protein adsorption on ion exchange resins and monoclonal antibody charge variant modulation. <i>Journal of Chromatography A</i> , 2016, 1447, 82-91.	3.7	43
125	High-throughput profiling of nucleotides and nucleotide sugars to evaluate their impact on antibody N-glycosylation. <i>Journal of Biotechnology</i> , 2016, 229, 3-12.	3.8	35
126	Effect of Dispersed Polymeric Nanoparticles on the Bulk Polymerization of Methyl Methacrylate. <i>Macromolecules</i> , 2016, 49, 7758-7766.	4.8	8

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127	Optimal model-based design of the twin-column CaptureSMB process improves capacity utilization and productivity in protein A affinity capture. <i>Biotechnology Journal</i> , 2016, 11, 135-145.	3.5	96
128	Continuous counter-current chromatography for capture and polishing steps in biopharmaceutical production. <i>Biotechnology Journal</i> , 2016, 11, 1126-1141.	3.5	117
129	Conductive framework of inverse opal structure for sulfur cathode in lithium-sulfur batteries. <i>Scientific Reports</i> , 2016, 6, 32800.	3.3	17
130	Protein adsorption in polyelectrolyte brush type cation-exchangers. <i>Journal of Chromatography A</i> , 2016, 1471, 126-137.	3.7	5
131	Modeling the Kinetics of Protein Conjugation Reactions. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1598-1608.	0.8	15
132	Comparison of batch and continuous multi-column protein A capture processes by optimal design. <i>Biotechnology Journal</i> , 2016, 11, 920-931.	3.5	120
133	Integrated process for high conversion and high yield protein PEGylation. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1711-1718.	3.3	23
134	Uniform distribution of graphene oxide sheets into a poly-vinylidene fluoride nanoparticle matrix through shear-driven aggregation. <i>Soft Matter</i> , 2016, 12, 5876-5882.	2.7	5
135	A poly-(styrene-acrylonitrile) copolymer-derived hierarchical architecture in electrode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11481-11490.	10.3	7
136	Advanced control strategies for the multicolumn countercurrent solvent gradient purification process. <i>AIChE Journal</i> , 2016, 62, 2341-2357.	3.6	56
137	PEGylated Nanoparticles Obtained through Emulsion Polymerization as Paclitaxel Carriers. <i>Molecular Pharmaceutics</i> , 2016, 13, 40-46.	4.6	31
138	Shear-driven aggregation of binary colloids for randomly distributing nanoparticles in a matrix. <i>Soft Matter</i> , 2016, 12, 3696-3702.	2.7	5
139	Kinetics of Monoclonal Antibody Aggregation from Dilute toward Concentrated Conditions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3267-3280.	2.6	40
140	A continuum theory for multicomponent chromatography modeling. <i>Journal of Chromatography A</i> , 2016, 1446, 50-58.	3.7	14
141	Characterization and comparison of ATF and TFF in stirred bioreactors for continuous mammalian cell culture processes. <i>Biochemical Engineering Journal</i> , 2016, 110, 17-26.	3.6	126
142	Competitive Adsorption of Xanthates with Different Chain Lengths on Chalcopyrite Particles. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 1461-1468.	3.7	6
143	Fate of PLA and PCL-Based Polymeric Nanocarriers in Cellular and Animal Models of Triple-Negative Breast Cancer. <i>Biomacromolecules</i> , 2016, 17, 744-755.	5.4	19
144	Microarray-based MALDI-TOF mass spectrometry enables monitoring of monoclonal antibody production in batch and perfusion cell cultures. <i>Methods</i> , 2016, 104, 33-40.	3.8	25

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145	Model-based development of an on-column PEGylation process. Reaction Chemistry and Engineering, 2016, 1, 204-217.	3.7	20
146	Shear-Induced Reactive Gelation. Langmuir, 2015, 31, 12727-12735.	3.5	13
147	A multiscale view of therapeutic protein aggregation: A colloid science perspective. Biotechnology Journal, 2015, 10, 367-378.	3.5	65
148	Fingerprint detection and process prediction by multivariate analysis of fedâ€batch monoclonal antibody cell culture data. Biotechnology Progress, 2015, 31, 1633-1644.	2.6	37
149	Synthesis and Ring-Opening Polymerization of Cyclic Butylene 2,5-Furandicarboxylate. Macromolecular Chemistry and Physics, 2015, 216, 2141-2146.	2.2	36
150	Synthesis of Water-Based Dispersions of Polymer/TiO2 Hybrid Nanospheres. Nanomaterials, 2015, 5, 1454-1468.	4.1	23
151	A control strategy for periodic systems â€ application to the twin-column MCSGP. Computer Aided Chemical Engineering, 2015, 37, 1505-1510.	0.5	6
152	Contribution of Electrostatics in the Fibril Stability of a Model Ionic-Complementary Peptide. Biomacromolecules, 2015, 16, 3792-3801.	5.4	15
153	Mass transfer coefficients determination from linear gradient elution experiments. Journal of Chromatography A, 2015, 1375, 42-48.	3.7	7
154	Highâ€throughput nucleoside phosphate monitoring in mammalian cell fedâ€batch cultivation using quantitative matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight mass spectrometry. Biotechnology Journal, 2015, 10, 190-198.	3.5	13
155	Insights into pHâ€induced metabolic switch by flux balance analysis. Biotechnology Progress, 2015, 31, 347-357.	2.6	46
156	Kinetics and Cluster Morphology Evolution of Shear-Driven Aggregation of Well-Stabilized Colloids. Langmuir, 2015, 31, 1113-1119.	3.5	12
157	Experimental determination of maximum effective hydrodynamic stress in multiphase flow using shear sensitive aggregates. AIChE Journal, 2015, 61, 1735-1744.	3.6	36
158	Determination of the maximum operating range of hydrodynamic stress in mammalian cell culture. Journal of Biotechnology, 2015, 194, 100-109.	3.8	62
159	Twin-column CaptureSMB: A novel cyclic process for protein A affinity chromatography. Journal of Chromatography A, 2015, 1389, 85-95.	3.7	138
160	Application of polymeric macroporous supports for temperature-responsive chromatography of pharmaceuticals. Journal of Chromatography A, 2015, 1407, 90-99.	3.7	16
161	Model-based description of peptide retention on doped reversed-phase media. Journal of Chromatography A, 2015, 1407, 169-175.	3.7	17
162	Experimental and Modeling Study of Acrylamide Copolymerization with Quaternary Ammonium Salt in Aqueous Solution. Macromolecules, 2015, 48, 5076-5087.	4.8	19

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163	Kinetic modeling of protein PEGylation. Chemical Engineering Science, 2015, 137, 816-827.	3.8	28
164	Analysis of site-specific N-glycan remodeling in the endoplasmic reticulum and the Golgi. Glycobiology, 2015, 25, 1335-1349.	2.5	60
165	A Colloidal Description of Intermolecular Interactions Driving Fibril Fibril Aggregation of a Model Amphiphilic Peptide. Langmuir, 2015, 31, 7590-7600.	3.5	16
166	Impact of aggregate formation on the viscosity of protein solutions. Soft Matter, 2015, 11, 5513-5522.	2.7	69
167	Strong cation-exchange chromatography of proteins on a sulfoalkylated monolithic cryogel. Journal of Chromatography A, 2015, 1386, 13-21.	3.7	28
168	Fragmentation of Amyloid Fibrils Occurs in Preferential Positions Depending on the Environmental Conditions. Journal of Physical Chemistry B, 2015, 119, 4644-4652.	2.6	49
169	Doping reversed-phase media for improved peptide purification. Journal of Chromatography A, 2015, 1397, 11-18.	3.7	10
170	Effect of polyol sugars on the stabilization of monoclonal antibodies. Biophysical Chemistry, 2015, 197, 40-46.	2.8	34
171	A two level hierarchical model of protein retention in ion exchange chromatography. Journal of Chromatography A, 2015, 1411, 50-62.	3.7	12
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