

# Krist Gernaey

## List of Publications by Year in descending order

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431  
papers

12,443  
citations

22099

59  
h-index

48187

88  
g-index

444  
all docs

444  
docs citations

444  
times ranked

9216  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic optimization framework for the process synthesis and design of biorefineries. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 251-273.	2.3	9
2	Model development for the optimization of operational conditions of the pretreatment of wheat straw. <i>Chemical Engineering Journal</i> , 2022, 430, 133106.	6.6	7
3	Separation of succinic acid from fermentation broth: Dielectric exclusion, Donnan effect and diffusion as the most influential mass transfer mechanisms. <i>Separation and Purification Technology</i> , 2022, 281, 119904.	3.9	8
4	Computational fluid dynamics modelling of hydrodynamics, mixing and oxygen transfer in industrial bioreactors with Newtonian broths. <i>Biochemical Engineering Journal</i> , 2022, 177, 108265.	1.8	23
5	Soft sensors application for automated feeding control in high-throughput mammalian cell cultures. <i>Biotechnology and Bioengineering</i> , 2022, 119, 1077-1090.	1.7	5
6	Economic and environmental analysis of bio-succinic acid production: From established processes to a new continuous fermentation approach with in-situ electrolytic extraction. <i>Chemical Engineering Research and Design</i> , 2022, 179, 401-414.	2.7	17
7	Conceptual Process Design of an Integrated Xylitol Biorefinery With Value-Added Co-Products. <i>Frontiers in Chemical Engineering</i> , 2022, 4, .	1.3	4
8	Plant-wide assessment of alternative activated sludge configurations for biological nutrient removal under uncertain influent characteristics. <i>Science of the Total Environment</i> , 2022, 822, 153678.	3.9	8
9	Dynamic Modeling and Control of a Continuous Biopharmaceutical Manufacturing Plant. <i>Springer Optimization and Its Applications</i> , 2022, , 323-353.	0.6	1
10	Digitalisation in chemical engineering: Industrial needs, academic best practice, and curriculum limitations. <i>Education for Chemical Engineers</i> , 2022, 39, 94-107.	2.8	12
11	Benchmarking strategies to control GHG production and emissions. , 2022, , 213-228.		0
12	Sampling Error of TOC swab in Pharmaceutical Cleaning Verification. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 215, 114763.	1.4	1
13	Prediction of mass and volumetric flows in a full-scale industrial waste treatment plant. <i>Chemical Engineering Journal</i> , 2022, 445, 136774.	6.6	3
14	Shaping an Open Microbiome for Butanol Production through Process Control. <i>Fermentation</i> , 2022, 8, 333.	1.4	1
15	Digital models in biotechnology: Towards multi-scale integration and implementation. <i>Biotechnology Advances</i> , 2022, 60, 108015.	6.0	14
16	Incremental design of water symbiosis networks with prior knowledge: The case of an industrial park in Kenya. <i>Science of the Total Environment</i> , 2021, 751, 141706.	3.9	16
17	Transforming data to information: A parallel hybrid model for real-time state estimation in lignocellulosic ethanol fermentation. <i>Biotechnology and Bioengineering</i> , 2021, 118, 579-591.	1.7	28
18	Separation of middle boiling trace compounds by distillation: An investigation of practical implications of complex column arrangements on an industrial methanol distillation case study. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, .	0.8	2

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19	Understanding gradients in industrial bioreactors. <i>Biotechnology Advances</i> , 2021, 46, 107660.	6.0	47
20	Assessment of sludge management strategies in wastewater treatment systems using a plant-wide approach. <i>Water Research</i> , 2021, 190, 116714.	5.3	24
21	Towards a Digital Twin: A validated Digital Model of a Pilot Scale Bioreactor producing Green Fluorescent Protein (GFP). <i>Computer Aided Chemical Engineering</i> , 2021, 50, 625-630.	0.3	1
22	Implementation of first-principles surface interactions in a hybrid machine learning assisted modelling of flocculation. <i>Computer Aided Chemical Engineering</i> , 2021, , 845-850.	0.3	3
23	Programming skills across the (bio)engineering curriculum – a students’ perspective. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 2039-2044.	0.3	2
24	Modelling and Dynamic Optimization of beer fermentation towards optimal flavor and operation. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 599-604.	0.3	0
25	Sustainable bio-succinic acid production: superstructure optimization, techno-economic, and lifecycle assessment. <i>Energy and Environmental Science</i> , 2021, 14, 3542-3558.	15.6	65
26	Unsupervised Monitoring of Flocculation Processes based on Recurrence Theory. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 1389-1394.	0.3	0
27	Digital Twin in biomanufacturing: challenges and opportunities towards its implementation. <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 257-274.	1.5	43
28	Analysis of the response of the cell membrane of <i>Saccharomyces cerevisiae</i> during the detoxification of common lignocellulosic inhibitors. <i>Scientific Reports</i> , 2021, 11, 6853.	1.6	14
29	Model-Based Evaluation of a Data-Driven Control Strategy: Application to Ibuprofen Crystallization Processes. <i>Processes</i> , 2021, 9, 653.	1.3	5
30	Evaluating Resource Recovery Options in Wastewater Treatment Plants Using Mathematical Models. , 2021, , 45-69.		0
31	Particle-Scale Modeling to Understand Liquid Distribution in Twin-Screw Wet Granulation. <i>Pharmaceutics</i> , 2021, 13, 928.	2.0	6
32	Long-term operation assessment of a full-scale membrane-aerated biofilm reactor under Nordic conditions. <i>Science of the Total Environment</i> , 2021, 779, 146366.	3.9	32
33	A framework for the development of Pedagogical Process Simulators (P2Si) using explanatory models and gamification. <i>Computers and Chemical Engineering</i> , 2021, 151, 107350.	2.0	10
34	Automated Compartment Model Development Based on Data from Flow-Following Sensor Devices. <i>Processes</i> , 2021, 9, 1651.	1.3	7
35	Development of dynamic compartment models for industrial aerobic fed-batch fermentation processes. <i>Chemical Engineering Journal</i> , 2021, 420, 130402.	6.6	28
36	Assessment of alkaline stabilization processes in industrial waste streams using a model-based approach. <i>Journal of Environmental Management</i> , 2021, 293, 112806.	3.8	3

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37	Alone or together? A review on pure and mixed microbial cultures for butanol production. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 147, 111244.	8.2	27
38	Towards Digitalization in Bio-Manufacturing Operations: A Survey on Application of Big Data and Digital Twin Concepts in Denmark. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	1.3	16
39	Microbial biofilms in biorefinery – Towards a sustainable production of low-value bulk chemicals and fuels. <i>Biotechnology Advances</i> , 2021, 50, 107766.	6.0	12
40	Characterization of mixing performance in bioreactors using flow-following sensor devices. <i>Chemical Engineering Research and Design</i> , 2021, 174, 471-485.	2.7	9
41	Techno-economic and environmental impact assessment of biogas production and fertiliser recovery from pelagic Sargassum: A biorefinery concept for Barbados. <i>Energy Conversion and Management</i> , 2021, 245, 114605.	4.4	16
42	Mechanisms, status, and challenges of thermal hydrolysis and advanced thermal hydrolysis processes in sewage sludge treatment. <i>Chemosphere</i> , 2021, 281, 130890.	4.2	58
43	Modelling and control of an integrated high purity methanol distillation configuration. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 169, 108640.	1.8	5
44	Fault diagnosis of chemical processes based on joint recurrence quantification analysis. <i>Computers and Chemical Engineering</i> , 2021, 155, 107549.	2.0	7
45	Co-cultivation of a novel <i>Fusarium striatum</i> strain and a xylose consuming <i>Saccharomyces cerevisiae</i> yields an efficient process for simultaneous detoxification and fermentation of lignocellulosic hydrolysates. <i>Chemical Engineering Journal</i> , 2021, 426, 131575.	6.6	10
46	Integration of first-principle models and machine learning in a modeling framework: An application to flocculation. <i>Chemical Engineering Science</i> , 2021, 245, 116864.	1.9	17
47	Special Issue on “Recent Advances in Population Balance Modeling” Processes, 2021, 9, 122.	1.3	2
48	An uncertainty-aware hybrid modelling approach using probabilistic machine learning. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 591-597.	0.3	1
49	Exceptionally rich keratinolytic enzyme profile found in the rare actinomycetes <i>Amycolatopsis keratiniphila</i> D2T. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 8129-8138.	1.7	8
50	From second generation feed-stocks to innovative fermentation and downstream techniques for succinic acid production. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1829-1873.	6.6	37
51	Resource recovery from waste streams in a water-energy-food nexus perspective: Toward more sustainable food processing. <i>Food and Bioproducts Processing</i> , 2020, 119, 133-147.	1.8	47
52	Model-based analysis of biocatalytic processes and performance of microreactors with integrated optical sensors. <i>New Biotechnology</i> , 2020, 56, 27-37.	2.4	12
53	Model-Based Tools for Pharmaceutical Manufacturing Processes. <i>Processes</i> , 2020, 8, 49.	1.3	5
54	Towards one-step design of tailored enzymatic nanobiosensors. <i>Analyst</i> , The, 2020, 145, 1014-1024.	1.7	18

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55	A novel use for an old problem: The Tennessee Eastman challenge process as an activating teaching tool. <i>Education for Chemical Engineers</i> , 2020, 30, 20-31.	2.8	18
56	Integration of Computational Chemistry and Artificial Intelligence for Multi-scale Modeling of Bioprocesses. <i>Computer Aided Chemical Engineering</i> , 2020, 48, 295-300.	0.3	6
57	A Hybrid Model Predictive Control Strategy using Neural Network Based Soft Sensors for Particle Processes. <i>Computer Aided Chemical Engineering</i> , 2020, 48, 1177-1182.	0.3	3
58	Surrogate Modelling Based Uncertainty and Sensitivity Analysis for the Downstream Process Design of a Xylitol Biorefinery. <i>Computer Aided Chemical Engineering</i> , 2020, , 1663-1668.	0.3	3
59	An E-learning Bot for Bioprocess Systems Engineering. <i>Computer Aided Chemical Engineering</i> , 2020, 48, 2023-2028.	0.3	4
60	Electrochemical tuning of alcohol oxidase and dehydrogenase catalysis via biosensing towards butanol-1 detection in fermentation media. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112702.	5.3	9
61	Stochastic simulation-based superstructure optimization framework for process synthesis and design under uncertainty. <i>Computers and Chemical Engineering</i> , 2020, 143, 107118.	2.0	15
62	Big Data Generation for Time Dependent Processes: The Tennessee Eastman Process for Generating Large Quantities of Process Data. <i>Computer Aided Chemical Engineering</i> , 2020, , 1309-1314.	0.3	6
63	Promoting the co-utilisation of glucose and xylose in lignocellulosic ethanol fermentations using a data-driven feed-back controller. <i>Biotechnology for Biofuels</i> , 2020, 13, 190.	6.2	9
64	The Role of Big Data in Industrial (Bio)chemical Process Operations. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 15283-15297.	1.8	41
65	Towards smart biomanufacturing: a perspective on recent developments in industrial measurement and monitoring technologies for bio-based production processes. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 947-964.	1.4	66
66	Why Is Batch Processing Still Dominating the Biologics Landscape? Towards an Integrated Continuous Bioprocessing Alternative. <i>Processes</i> , 2020, 8, 1641.	1.3	21
67	Flow-following sensor devices: A tool for bridging data and model predictions in large-scale fermentations. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 2908-2919.	1.9	19
68	Towards a digital twin: a hybrid data-driven and mechanistic digital shadow to forecast the evolution of lignocellulosic fermentation. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 1046-1060.	1.9	39
69	Automated Electrochemical Glucose Biosensor Platform as an Efficient Tool Toward On-Line Fermentation Monitoring: Novel Application Approaches and Insights. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 436.	2.0	23
70	Distinguishing Commercial Beers Using a Solution-Based Sensor Array Derived from Nanoscale Polydiacetylene Vesicles. <i>ACS Applied Nano Materials</i> , 2020, 3, 3439-3448.	2.4	16
71	Assessment of the fate of organic micropollutants in novel wastewater treatment plant configurations through an empirical mechanistic model. <i>Science of the Total Environment</i> , 2020, 716, 137079.	3.9	4
72	A process synthesis tool for WWTP – An application to design sustainable energy recovery facilities. <i>Chemical Engineering Research and Design</i> , 2020, 156, 353-370.	2.7	11

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73	Modeling and system identification of an unconventional bioreactor used for single cell protein production. <i>Chemical Engineering Journal</i> , 2020, 390, 124438.	6.6	4
74	Application of Organic-Inorganic Hybrids in Chemical Analysis, Bio- and Environmental Monitoring. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1458.	1.3	19
75	Two novel S1 peptidases from <i>Amycolatopsis keratinophila</i> subsp. <i>keratinophila</i> D2T degrading keratinous slaughterhouse by-products. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 2513-2522.	1.7	5
76	Dynamic model validation and advanced polymer control for rotating belt filtration as primary treatment of domestic wastewaters. <i>Chemical Engineering Science</i> , 2020, 217, 115510.	1.9	8
77	Monitoring yeast fermentations by nonlinear infrared technology and chemometrics—understanding process correlations and indirect predictions. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 5315-5335.	1.7	11
78	Towards the Development of Digital Twins for the Bio-manufacturing Industry. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2020, 176, 1-34.	0.6	25
79	Hybrid machine learning assisted modelling framework for particle processes. <i>Computers and Chemical Engineering</i> , 2020, 140, 106916.	2.0	33
80	Design and Application of an Electrochemical Sensor for Ammonium Monitoring in Bioprocesses. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2073-2073.	0.0	0
81	Benchmarking real-time monitoring strategies for ethanol production from lignocellulosic biomass. <i>Biomass and Bioenergy</i> , 2019, 127, 105296.	2.9	25
82	A compartment model for risk-based monitoring of lactic acid bacteria cultivations. <i>Biochemical Engineering Journal</i> , 2019, 151, 107293.	1.8	14
83	Assessing the effects of intra-granule precipitation in a full-scale industrial anaerobic digester. <i>Water Science and Technology</i> , 2019, 79, 1327-1337.	1.2	12
84	Dynamic investigation and modeling of the nitrogen cometabolism in <i>Methylococcus capsulatus</i> (Tj) ETQq0 0 0 rgBT/Overlock 10 Tf 50		
85	Quantitative Flow Cytometry to Understand Population Heterogeneity in Response to Changes in Substrate Availability in <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> Chemostats. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 187.	2.0	28
86	Novel strategies for predictive particle monitoring and control using advanced image analysis. <i>Computer Aided Chemical Engineering</i> , 2019, , 1435-1440.	0.3	7
87	Facilitating learning by failure through a pedagogical model-based tool for bioprocesses. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 1825-1830.	0.3	1
88	Towards development of a decision support tool for conceptual design of wastewater treatment plants using stochastic simulation optimization. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 325-330.	0.3	3
89	Achieving value from process intensification through better process control. , 2019, , .		0
90	Cleaning of toothpaste from vessel walls by impinging liquid jets and their falling films: Quantitative modelling of soaking effects. <i>Chemical Engineering Science</i> , 2019, 208, 115148.	1.9	12

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91	Output uncertainty of dynamic growth models: Effect of uncertain parameter estimates on model reliability. <i>Biochemical Engineering Journal</i> , 2019, 150, 107247.	1.8	25
92	Meta-modeling based efficient global sensitivity analysis for wastewater treatment plants – An application to the BSM2 model. <i>Computers and Chemical Engineering</i> , 2019, 127, 233-246.	2.0	50
93	An exploration of barriers for commercializing phosphorus recovery technologies. <i>Journal of Cleaner Production</i> , 2019, 229, 1342-1354.	4.6	64
94	Evaluation of anaerobic digestion post-treatment options using an integrated model-based approach. <i>Water Research</i> , 2019, 156, 264-276.	5.3	16
95	An integrated strategy for the effective production of bristle protein hydrolysate by the keratinolytic filamentous bacterium <i>Amycolatopsis keratiniphila</i> D2. <i>Waste Management</i> , 2019, 89, 94-102.	3.7	18
96	Model-Based Cost Optimization of Double-Effect Water-Lithium Bromide Absorption Refrigeration Systems. <i>Processes</i> , 2019, 7, 50.	1.3	7
97	Sensors for biosensors: a novel tandem monitoring in a droplet towards efficient screening of robust design and optimal operating conditions. <i>Analyst</i> , 2019, 144, 2511-2522.	1.7	17
98	An Industrial Perspective on Scale-Down Challenges Using Miniaturized Bioreactors. <i>Trends in Biotechnology</i> , 2019, 37, 697-706.	4.9	28
99	The effect of acetate on population heterogeneity in different cellular characteristics of <i>Escherichia coli</i> in aerobic batch cultures. <i>Biotechnology Progress</i> , 2019, 35, e2796.	1.3	8
100	Plant-wide model-based analysis of iron dosage strategies for chemical phosphorus removal in wastewater treatment systems. <i>Water Research</i> , 2019, 155, 12-25.	5.3	78
101	Systematic decision-support methodology for identifying promising platform technologies towards circular economy. <i>Computer Aided Chemical Engineering</i> , 2019, , 1513-1518.	0.3	0
102	Hypothesis-driven compartment model for stirred bioreactors utilizing computational fluid dynamics and multiple pH sensors. <i>Chemical Engineering Journal</i> , 2019, 356, 161-169.	6.6	14
103	A CFD based automatic method for compartment model development. <i>Computers and Chemical Engineering</i> , 2019, 123, 236-245.	2.0	31
104	Economic Risk Analysis and Critical Comparison of Biodiesel Production Systems. <i>Biofuel and Biorefinery Technologies</i> , 2019, , 127-148.	0.1	2
105	Resource recovery from bio-based production processes in developing Asia. <i>Sustainable Production and Consumption</i> , 2019, 17, 196-214.	5.7	21
106	CFD predicted pH gradients in lactic acid bacteria cultivations. <i>Biotechnology and Bioengineering</i> , 2019, 116, 769-780.	1.7	31
107	Investigation of the cleaning of egg yolk deposits from tank surfaces using continuous and pulsed flows. <i>Food and Bioprocess Technology</i> , 2019, 113, 154-167.	1.8	21
108	BIOPRO-Sim: A benchmark simulation model for bio-manufacturing processes. <i>Computer Aided Chemical Engineering</i> , 2019, , 961-966.	0.3	0

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109	Developing a framework to model the primary drying step of a continuous freeze-drying process based on infrared radiation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 127, 159-170.	2.0	11
110	Multi-function microfluidic platform for sensor integration. <i>New Biotechnology</i> , 2018, 47, 8-17.	2.4	8
111	Improved Prediction of Phosphorus Dynamics in Biotechnological Processes by Considering Precipitation and Polyphosphate Formation: A Case Study on Antibiotic Production with <i>Streptomyces coelicolor</i> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 9740-9749.	1.8	1
112	Liquid-to-solid ratio control as an advanced process control solution for continuous twin-screw wet granulation. <i>AIChE Journal</i> , 2018, 64, 2500-2514.	1.8	19
113	Global Sensitivity Analysis as Good Modelling Practices tool for the identification of the most influential process parameters of the primary drying step during freeze-drying. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 123, 108-116.	2.0	8
114	Configuration optimization of series flow double-effect water-lithium bromide absorption refrigeration systems by cost minimization. <i>Energy Conversion and Management</i> , 2018, 158, 359-372.	4.4	40
115	Caught in-between: System for in-flow inactivation of enzymes as an intermediary step in "plug-and-play" microfluidic platforms. <i>New Biotechnology</i> , 2018, 47, 39-49.	2.4	4
116	"Connecting worlds" a view on microfluidics for a wider application. <i>Biotechnology Advances</i> , 2018, 36, 1341-1366.	6.0	36
117	Occurrence, characterisation and fate of (nano)particulate Ti and Ag in two Norwegian wastewater treatment plants. <i>Water Research</i> , 2018, 141, 19-31.	5.3	46
118	A probabilistic model-based soft sensor to monitor lactic acid bacteria fermentations. <i>Biochemical Engineering Journal</i> , 2018, 135, 49-60.	1.8	26
119	CFD modelling of axial mixing in the intermediate and final rinses of cleaning-in-place procedures of straight pipes. <i>Journal of Food Engineering</i> , 2018, 221, 95-105.	2.7	15
120	Experimental and computational evaluation of area selectively immobilized horseradish peroxidase in a microfluidic device. <i>Chemical Engineering Journal</i> , 2018, 332, 16-23.	6.6	13
121	Mechanistic modeling of cyclic voltammetry: A helpful tool for understanding biosensor principles and supporting design optimization. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 945-955.	4.0	22
122	Organic carbon recovery modeling for a rotating belt filter and its impact assessment on a plant-wide scale. <i>Chemical Engineering Journal</i> , 2018, 334, 1965-1976.	6.6	27
123	Exploring the effects of ZVI addition on resource recovery in the anaerobic digestion process. <i>Chemical Engineering Journal</i> , 2018, 335, 703-711.	6.6	56
124	A fast and simple method to estimate relative, hyphal tensile strength of filamentous fungi used to assess the effect of autophagy. <i>Biotechnology and Bioengineering</i> , 2018, 115, 597-605.	1.7	3
125	A Genome-Scale Metabolic Model for <i>Methylococcus capsulatus</i> (Bath) Suggests Reduced Efficiency Electron Transfer to the Particulate Methane Monooxygenase. <i>Frontiers in Microbiology</i> , 2018, 9, 2947.	1.5	40
126	Integrated Process Design and Control of Cyclic Distillation Columns. <i>IFAC-PapersOnLine</i> , 2018, 51, 542-547.	0.5	13



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127	Key control handles in integrated urban wastewater systems for improving receiving water quality. <i>Urban Water Journal</i> , 2018, 15, 790-800.	1.0	6
128	A Methodology for Development of a Pedagogical Simulation Tool used in Fermentation Applications. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 1621-1626.	0.3	2
129	Exploring the potential of electroless and electroplated noble metal-semiconductor hybrids within bio- and environmental sensing. <i>Analyst, The</i> , 2018, 143, 5646-5669.	1.7	10
130	Investigation of the effect of uncertain growth kinetics on a CFD based model for the growth of <i>S. cerevisiae</i> in an industrial bioreactor. <i>Chemical Engineering Research and Design</i> , 2018, 140, 12-22.	2.7	7
131	A shortcut approach for decision-making and operational analysis of an integrated end-to-end continuous pharmaceutical process. <i>Computer Aided Chemical Engineering</i> , 2018, , 2107-2112.	0.3	3
132	Implementation of a Radial Basis Function control strategy for the crystallization of Ibuprofen under uncertainty. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 565-570.	0.3	3
133	A Systematic Methodology for Comprehensive Economic Assessment of Process Control Structures. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 13116-13130.	1.8	19
134	BIOPRO World Talent Campus: A week of real world challenge for biotechnology post-graduate students. <i>Education for Chemical Engineers</i> , 2018, 25, 1-8.	2.8	3
135	Anomaly Analysis in Cleaning-in-Place Operations of an Industrial Brewery Fermenter. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 12871-12883.	1.8	4
136	Dynamic Plantwide Modeling, Uncertainty, and Sensitivity Analysis of a Pharmaceutical Upstream Synthesis: Ibuprofen Case Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 10026-10037.	1.8	19
137	Model-based analysis and optimization of a full-scale industrial high-rate anaerobic bioreactor. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2726-2739.	1.7	13
138	Modeling for Process Risk Assessment in Industrial Bioprocesses. , 2018, , .		1
139	Model-based process development for a continuous lactic acid bacteria fermentation. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 1601-1606.	0.3	4
140	Resource recovery from organic solid waste using hydrothermal processing: Opportunities and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 96, 64-75.	8.2	117
141	Biocatalyst Screening with a Twist: Application of Oxygen Sensors Integrated in Microchannels for Screening Whole Cell Biocatalyst Variants. <i>Bioengineering</i> , 2018, 5, 30.	1.6	9
142	Efficient Computational Design of a Scaffold for Cartilage Cell Regeneration. <i>Bioengineering</i> , 2018, 5, 33.	1.6	8
143	Enzymatic keratin hydrolysis: Dynamic modelling, parameter estimation and validation. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 1553-1558.	0.3	1
144	Screening of organic solvents for bioprocesses using aqueous-organic two-phase systems. <i>Biotechnology Advances</i> , 2018, 36, 1801-1814.	6.0	67

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145	Removal of benzaldehyde from a water/ethanol mixture by applying scavenging techniques. Green Processing and Synthesis, 2017, 6, 353-361.	1.3	2
146	Understanding N <sub>2</sub> O formation mechanisms through sensitivity analyses using a plant-wide benchmark simulation model. Chemical Engineering Journal, 2017, 317, 935-951.	6.6	29
147	A novel model-based control strategy for aerobic filamentous fungal fed-batch fermentation processes. Biotechnology and Bioengineering, 2017, 114, 1459-1468.	1.7	16
148	Plant-wide modelling of phosphorus transformations in wastewater treatment systems: Impacts of control and operational strategies. Water Research, 2017, 113, 97-110.	5.3	82
149	A review of control strategies for manipulating the feed rate in fed-batch fermentation processes. Journal of Biotechnology, 2017, 245, 34-46.	1.9	136
150	Adding Value to Bioethanol through a Purification Process Revamp. Industrial & Engineering Chemistry Research, 2017, 56, 5692-5704.	1.8	7
151	Evaluation of mixing and mass transfer in a stirred pilot scale bioreactor utilizing CFD. Chemical Engineering Science, 2017, 171, 19-26.	1.9	58
152	Supply Chain Optimization of Integrated Glycerol Biorefinery: <i>GlyThink</i> Model Development and Application. Industrial & Engineering Chemistry Research, 2017, 56, 6711-6727.	1.8	13
153	A model library for simulation and benchmarking of integrated urban wastewater systems. Environmental Modelling and Software, 2017, 93, 282-295.	1.9	22
154	CFD Modeling of Flow and Ion Exchange Kinetics in a Rotating Bed Reactor System. Industrial & Engineering Chemistry Research, 2017, 56, 3853-3865.	1.8	12
155	Biorefinery Sustainability Analysis. Lecture Notes in Energy, 2017, , 161-200.	0.2	2
156	Shape optimization as a tool to design biocatalytic microreactors. Chemical Engineering Journal, 2017, 322, 215-223.	6.6	14
157	Modelling an industrial anaerobic granular reactor using a multi-scale approach. Water Research, 2017, 126, 488-500.	5.3	29
158	Quantitative risk assessment via uncertainty analysis in combination with error propagation for the determination of the dynamic Design Space of the primary drying step during freeze-drying. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 121, 32-41.	2.0	26
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