EugÃ©nio C Ferreira

List of Publications by Year
in descending order

181 papers	4,556 citations	101543 36 h-index	144013 57 g-index
190 all docs	190 docs citations	190 times ranked	5230 citing authors

#	Article	IF	Citations
1	OptFlux: an open-source software platform for in silico metabolic engineering. BMC Systems Biology, 2010, 4, 45.	3.0	321
2	Molecular Aspects and Comparative Genomics of Bacteriophage Endolysins. Journal of Virology, 2013, 87, 4558-4570.	3.4	222
3	Galacto-oligosaccharides production during lactose hydrolysis by free Aspergillus oryzae Î²-galactosidase and immobilized on magnetic polysiloxane-polyvinyl alcohol. Food Chemistry, 2009, 115, 92-99.	8.2	170
4	Modeling formalisms in Systems Biology. AMB Express, 2011, 1, 45.	3.0	139
5	Reconstructing genome-scale metabolic models with merlin. Nucleic Acids Research, 2015, 43, 3899-3910.	14.5	121
6	Quantification of the CBD-FITC conjugates surface coating on cellulose fibres. BMC Biotechnology, 2008, 8, 1.	3.3	90
7	Natural computation meta-heuristics for the in silico optimization of microbial strains. BMC Bioinformatics, 2008, 9, 499.	2.6	90
8	Activated sludge monitoring of a wastewater treatment plant using image analysis and partial least squares regression. Analytica Chimica Acta, 2005, 544, 246-253.	5.4	89
9	The use of antibiotics to improve phage detection and enumeration by the double-layer agar technique. BMC Microbiology, 2009, 9, 148.	3.3	87
10	Tuning of observer-based estimators: theory and application to the on-line estimation of kinetic parameters. Control Engineering Practice, 2000, 8, 377-388.	5.5	85
11	An Overview of the Evolution of Infrared Spectroscopy Applied to Bacterial Typing. Biotechnology Journal, 2018, 13, 1700449.	3.5	81
12	Genomic and Proteomic Characterization of the Broad-Host-Range Salmonella Phage PVP-SE1: Creation of a New Phage Genus. Journal of Virology, 2011, 85, 11265-11273.	3.4	80
13	New PLS analysis approach to wine volatile compounds characterization by near infrared spectroscopy (NIR). Food Chemistry, 2018, 246, 172-178.	8.2	80
14	Metabolic responses to recombinant bioprocesses in Escherichia coli. Journal of Biotechnology, 2013, 164, 396-408.	3.8	76
15	Identifying different types of bulking in an activated sludge system through quantitative image analysis. Chemosphere, 2011, 85, 643-652.	8.2	71
16	Random sampling of elementary flux modes in large-scale metabolic networks. Bioinformatics, 2012, 28, i515-i521.	4.1	66
17	Virtual laboratories in (bio)chemical engineering education. Education for Chemical Engineers, 2010, 5, e22-e27.	4.8	59
18	Activated sludge characterization through microscopy: A review on quantitative image analysis and chemometric techniques. Analytica Chimica Acta, 2013, 802, 14-28.	5.4	59

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19	Quantitative monitoring of an activated sludge reactor using on-line UV-visible and near-infrared spectroscopy. Analytical and Bioanalytical Chemistry, 2009, 395, 1159-1166.	3.7	56
20	Population Dynamics of a Salmonella Lytic Phage and Its Host: Implications of the Host Bacterial Growth Rate in Modelling. PLoS ONE, 2014, 9, e102507.	2.5	56
21	Comparison of adsorption equilibrium of fructose, glucose and sucrose on potassium gel-type and macroporous sodium ion-exchange resins. Analytica Chimica Acta, 2009, 654, 71-76.	5.4	55
22	iOD907, the first genomeâ€scale metabolic model for the milk yeast Kluyveromyces lactis. Biotechnology Journal, 2014, 9, 776-790.	3.5	52
23	Monitoring biological wastewater treatment processes: recent advances in spectroscopy applications. Reviews in Environmental Science and Biotechnology, 2017, 16, 395-424.	8.1	50
24	Hybrid dynamic modeling of Escherichia coli central metabolic network combining Michaelisâ€“Menten and approximate kinetic equations. BioSystems, 2010, 100, 150-157.	2.0	49
25	Optimization of fed-batch fermentation processes with bio-inspired algorithms. Expert Systems With Applications, 2014, 41, 2186-2195.	7.6	48
26	Monitoring of fed-batch E. coli fermentations with software sensors. Bioprocess and Biosystems Engineering, 2009, 32, 381-388.	3.4	47
27	On-line simultaneous monitoring of glucose and acetate with FIA during high cell density fermentation of recombinant E. coli. Analytica Chimica Acta, 2002, 462, 293-304.	5.4	44
28	Survey of Protozoa and Metazoa populations in wastewater treatment plants by image analysis and discriminant analysis. Environmetrics, 2004, 15, 381-390.	1.4	44
29	Effect of hyperbaric stress on yeast morphology: study by automated image analysis. Applied Microbiology and Biotechnology, 2004, 66, 318-324.	3.6	43
30	Stability, dynamics of convergence and tuning of observer-based kinetics estimators. Journal of Process Control, 2002, 12, 311-323.	3.3	42
31	Recognition of protozoa and metazoa using image analysis tools, discriminant analysis, neural networks and decision trees. Analytica Chimica Acta, 2007, 595, 160-169.	5.4	42
32	Selection and Characterization of a Multivalent Salmonella Phage and Its Production in a Nonpathogenic Escherichia coli Strain. Applied and Environmental Microbiology, 2010, 76, 7338-7342.	3.1	42
33	Energy recovery and impact on land use of Maltese municipal solid waste incineration. Energy, 2013, 49, 1-11.	8.8	42
34	Aroma production by Yarrowia lipolytica in airlift and stirred tank bioreactors: Differences in yeast metabolism and morphology. Biochemical Engineering Journal, 2015, 93, 55-62.	3.6	42
35	Correlation between sludge settling ability and image analysis information using partial least squares. Analytica Chimica Acta, 2009, 642, 94-101.	5.4	41
36	Inoculum type response to different pHs on biohydrogen production from l-arabinose, a component of hemicellulosic biopolymers. International Journal of Hydrogen Energy, 2009, 34, 1744-1751.	7.1	40

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37	Morphological analysis of Yarrowia lipolytica under stress conditions through image processing. Bioprocess and Biosystems Engineering, 2003, 25, 371-375.	3.4	36
38	Air pollution control with semi-infinite programming. Applied Mathematical Modelling, 2009, 33, 1957-1969.	4.2	36
39	A study on the convergence of observer-based kinetics estimators in stirred tank bioreactors. Journal of Process Control, 1996, 6, 367-371.	3.3	35
40	Development of an image analysis procedure for identifying protozoa and metazoa typical of activated sludge system. Water Research, 2007, 41, 2581-2589.	11.3	34
41	@Note: A workbench for Biomedical Text Mining. Journal of Biomedical Informatics, 2009, 42, 710-720.	4.3	34
42	Metabolic footprint analysis of recombinant Escherichia coli strains during fed-batch fermentations. Molecular BioSystems, 2011, 7, 899-910.	2.9	34
43	Automatic identification of activated sludge disturbances and assessment of operational parameters. Chemosphere, 2013, 91, 705-710.	8.2	34
44	Exploring the gap between dynamic and constraint-based models of metabolism. Metabolic Engineering, 2012, 14, 112-119.	7.0	33
45	Long-term stability of a non-adapted aerobic granular sludge process treating fish canning wastewater associated to EPS producers in the core microbiome. Science of the Total Environment, 2021, 756, 144007.	8.0	33
46	Mass transfer properties of glucose and O2 in Saccharomyces cerevisiae flocs. Biochemical Engineering Journal, 1998, 2, 35-43.	3.6	31
47	Principal component analysis and quantitative image analysis to predict effects of toxics in anaerobic granular sludge. Bioresource Technology, 2009, 100, 1180-1185.	9.6	31
48	Quantitative image analysis for the characterization of microbial aggregates in biological wastewater treatment: a review. Environmental Science and Pollution Research, 2013, 20, 5887-5912.	5.3	31
49	Estimation of effluent quality parameters from an activated sludge system using quantitative image analysis. Chemical Engineering Journal, 2016, 285, 349-357.	12.7	31
50	Characterization of activated sludge abnormalities by image analysis and chemometric techniques. Analytica Chimica Acta, 2011, 705, 235-242.	5.4	29
51	Variability in the composition of extracellular polymeric substances from a full-scale aerobic granular sludge reactor treating urban wastewater. Journal of Environmental Chemical Engineering, 2020, 8, 104156.	6.7	29
52	Monitoring of activated sludge settling ability through image analysis: validation on full-scale wastewater treatment plants. Bioprocess and Biosystems Engineering, 2009, 32, 361-367.	3.4	28
53	Quantification of pharmaceutical compounds in wastewater samples by near infrared spectroscopy (NIR). Talanta, 2019, 194, 507-513.	5.5	27
54	Development of image analysis techniques as a tool to detect and quantify morphological changes in anaerobic sludge: II. Application to a granule deterioration process triggered by contact with oleic acid. Biotechnology and Bioengineering, 2004, 87, 194-199.	3.3	26

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55	Sludge volume index and suspended solids estimation of mature aerobic granular sludge by quantitative image analysis and chemometric tools. Separation and Purification Technology, 2020, 234, 116049.	7.9	24
56	Bio-Based Nanoparticles as a Carrier of Î²-Carotene: Production, Characterisation and In Vitro Gastrointestinal Digestion. Molecules, 2020, 25, 4497.	3.8	24
57	Estimation of multiple biomass growth rates and biomass concentration in a class of bioprocesses. Bioprocess and Biosystems Engineering, 2003, 25, 395-406.	3.4	23
58	Economic analysis and environmental impact assessment of three different fermentation processes for fructooligosaccharides production. Bioresource Technology, 2015, 198, 673-681.	9.6	23
59	Activated sludge process monitoring through in situ near-infrared spectral analysis. Water Science and Technology, 2008, 57, 1643-1650.	2.5	22
60	Semi-automated recognition of protozoa by image analysis. Biotechnology Letters, 1999, 13, 111-118.	0.5	21
61	Quantitative image analysis as a diagnostic tool for identifying structural changes during a revival process of anaerobic granular sludge. Water Research, 2007, 41, 1473-1480.	11.3	21
62	Simultaneous partial nitrification and 2-fluorophenol biodegradation with aerobic granular biomass: Reactor performance and microbial communities. Bioresource Technology, 2017, 238, 232-240.	9.6	21
63	Environmental impact and biological removal processes of pharmaceutically active compounds: The particular case of sulfonamides, anticonvulsants and steroid estrogens. Critical Reviews in Environmental Science and Technology, 2020, 50, 698-742.	12.8	21
64	Quantitative image analysis as a diagnostic tool for monitoring structural changes of anaerobic granular sludge during detergent shock loads. Biotechnology and Bioengineering, 2007, 98, 60-68.	3.3	20
65	A Comparison between Bright Field and Phase-Contrast Image Analysis Techniques in Activated Sludge Morphological Characterization. Microscopy and Microanalysis, 2010, 16, 166-174.	0.4	20
66	Genome-wide metabolic (re-) annotation of Kluyveromyces lactis. BMC Genomics, 2012, 13, 517.	2.8	20
67	Quantitative image analysis as a tool for Yarrowia lipolytica dimorphic growth evaluation in different culture media. Journal of Biotechnology, 2016, 217, 22-30.	3.8	20
68	Degradation of widespread pharmaceuticals by activated sludge: Kinetic study, toxicity assessment, and comparison with adsorption processes. Journal of Water Process Engineering, 2020, 33, 101061.	5.6	20
69	Development of image analysis techniques as a tool to detect and quantify morphological changes in anaerobic sludge: I. Application to a granulation process. Biotechnology and Bioengineering, 2004, 87, 184-193.	3.3	19
70	Salmonella typhimuriumandEscherichia colidissimilarity: Closely related bacteria with distinct metabolic profiles. Biotechnology Progress, 2015, 31, 1217-1225.	2.6	19
71	Critical perspective on the consequences of the limited availability of kinetic data in metabolic dynamic modelling. IET Systems Biology, 2011, 5, 157-163.	1.5	18
72	Near-infrared spectroscopy for the detection and quantification of bacterial contaminations in pharmaceutical products. International Journal of Pharmaceutics, 2015, 492, 199-206.	5.2	18

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73	Increased extracellular polymeric substances production contributes for the robustness of aerobic granular sludge during long-term intermittent exposure to 2-fluorophenol in saline wastewater. Journal of Water Process Engineering, 2021, 40, 101977.	5.6	18
74	merlin, an improved framework for the reconstruction of high-quality genome-scale metabolic models. Nucleic Acids Research, 2022, 50, 6052-6066.	14.5	18
75	A Comparison of Algorithms for the Optimization of Fermentation Processes. , 0, , .		17
76	Selection of Elementary Modes for Bioprocess Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 156-161.	0.4	17
77	The Role of Extracellular Polymeric Substances in Micropollutant Removal. Frontiers in Chemical Engineering, 2022, 4, .	2.7	17
78	Stalked protozoa identification by image analysis and multivariable statistical techniques. Analytical and Bioanalytical Chemistry, 2008, 391, 1321-1325.	3.7	16
79	Kinetic and stoichiometric parameters estimation in a nitrifying bubble column through â€œin-situâ€• pulse respirometry. Biotechnology and Bioengineering, 2008, 100, 94-102.	3.3	16
80	Identification of Metabolic Engineering Targets through Analysis of Optimal and Sub-Optimal Routes. PLoS ONE, 2013, 8, e61648.	2.5	16
81	Polyhydroxyalkanoate granules quantification in mixed microbial cultures using image analysis: Sudan Black B versus Nile Blue A staining. Analytica Chimica Acta, 2015, 865, 8-15.	5.4	16
82	The study of protozoa population in wastewater treatment plants by image analysis. Brazilian Journal of Chemical Engineering, 2001, 18, 103-111.	1.3	16
83	Kinetic and stoichiometric characterization of a fixed biofilm reactor by pulse respirometry. Journal of Biotechnology, 2012, 157, 173-179.	3.8	15
84	Prediction of intracellular storage polymers using quantitative image analysis in enhanced biological phosphorus removal systems. Analytica Chimica Acta, 2013, 770, 36-44.	5.4	15
85	Effect of ibuprofen on extracellular polymeric substances (EPS) production and composition, and assessment of microbial structure by quantitative image analysis. Journal of Environmental Management, 2021, 293, 112852.	7.8	15
86	Development of a Method Using Image Analysis for the Measurement of Cellulose-Binding Domains Adsorbed onto Cellulose Fibers. Biotechnology Progress, 2007, 23, 1492-1497.	2.6	14
87	IMPLEMENTATION OF A SPECIFIC RATE CONTROLLER IN A FED-BATCH E. COLI FERMENTATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 15565-15570.	0.4	14
88	Dilution and Magnification Effects on Image Analysis Applications in Activated Sludge Characterization. Microscopy and Microanalysis, 2010, 16, 561-568.	0.4	14
89	BioDR: Semantic indexing networks for biomedical document retrieval. Expert Systems With Applications, 2010, 37, 3444-3453.	7.6	14
90	In situ pulse respirometric methods for the estimation of kinetic and stoichiometric parameters in aerobic microbial communities. Biochemical Engineering Journal, 2011, 58-59, 12-19.	3.6	14

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91	State and specific growth estimation in heterologous protein production by Pichia pastoris. AICHE Journal, 2012, 58, 2966-2979.	3.6	14
92	Genome-Wide Semi-Automated Annotation of Transporter Systems. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 443-456.	3.0	14
93	Genome-wide metabolic re-annotation of Ashbya gossypii: new insights into its metabolism through a comparative analysis with Saccharomyces cerevisiae and Kluyveromyces lactis. BMC Genomics, 2014, 15, 810.	2.8	13
94	Reconstructing High-Quality Large-Scale Metabolic Models with merlin. Methods in Molecular Biology, 2018, 1716, 1-36.	0.9	13
95	Image analysis, methanogenic activity measurements, and molecular biological techniques to monitor granular sludge from an EGSB reactor fed with oleic acid. Water Science and Technology, 2003, 47, 181-188.	2.5	12
96	Evolutionary Algorithms for Optimal Control in Fed-Batch Fermentation Processes. Lecture Notes in Computer Science, 2004, , 84-93.	1.3	12
97	Study of saline wastewater influence on activated sludge flocs through automated image analysis. Journal of Chemical Technology and Biotechnology, 2009, 84, 554-560.	3.2	12
98	Advanced monitoring of highâ€rate anaerobic reactors through quantitative image analysis of granular sludge and multivariate statistical analysis. Biotechnology and Bioengineering, 2009, 102, 445-456.	3.3	12
99	Optimization of bacterial nanocellulose fermentation using recycled paper sludge and development of novel composites. Applied Microbiology and Biotechnology, 2019, 103, 9143-9154.	3.6	12
100	Environmentally-friendly technology for rapid identification and quantification of emerging pollutants from wastewater using infrared spectroscopy. Environmental Toxicology and Pharmacology, 2020, 80, 103458.	4.0	12
101	Can spreadsheet solvers solve demanding optimization problems?. Computer Applications in Engineering Education, 2001, 9, 49-56.	3.4	11
102	Evaluating evolutionary multiobjective algorithms for the in silico optimization of mutant strains. , 2008, , .		10
103	Application of image analysis to the prediction of EBC barley kernel weight distribution. Industrial Crops and Products, 2009, 30, 366-371.	5.2	10
104	Assessment of physiological conditions in E. coli fermentations by epifluorescent microscopy and image analysis. Biotechnology Progress, 2009, 25, 882-891.	2.6	10
105	Morphology and physiology of anaerobic granular sludge exposed to an organic solvent. Journal of Hazardous Materials, 2009, 167, 393-398.	12.4	10
106	NIR spectroscopy applied to the determination of 2â€phenylethanol and <scp>l</scp>â€phenylalanine concentrations in culture medium of Yarrowia lipolytica. Journal of Chemical Technology and Biotechnology, 2019, 94, 812-818.	3.2	10
107	A kinetic model of the central carbon metabolism for acrylic acid production in Escherichia coli. PLoS Computational Biology, 2021, 17, e1008704.	3.2	10
108	A Dynamical Model for the Fermentative Production of Fructooligosaccharides. Computer Aided Chemical Engineering, 2009, , 1827-1832.	0.5	9

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109	A chemometric tool to monitor high-rate anaerobic granular sludge reactors during load and toxic disturbances. Biochemical Engineering Journal, 2010, 53, 38-43.	3.6	9
110	Identification of minimal metabolic pathway models consistent with phenotypic data. Journal of Process Control, 2011, 21, 1483-1492.	3.3	9
111	Stringent response of Escherichia coli: revisiting the bibliome using literature mining. Microbial Informatics and Experimentation, 2011, 1, 14.	7.6	9
112	Influence of the RelA Activity on E. coli Metabolism by Metabolite Profiling of Glucose-Limited Chemostat Cultures. Metabolites, 2012, 2, 717-732.	2.9	9
113	COVID-19, Chikungunya, Dengue and Zika Diseases: An Analytical Platform Based on MALDI-TOF MS, IR Spectroscopy and RT-qPCR for Accurate Diagnosis and Accelerate Epidemics Control. Microorganisms, 2021, 9, 708.	3.6	9
114	Assessment of an aerobic granular sludge system in the presence of pharmaceutically active compounds by quantitative image analysis and chemometric techniques. Journal of Environmental Management, 2021, 289, 112474.	7.8	9
115	Knowledge-based fuzzy system for diagnosis and control of an integrated biological wastewater treatment process. Water Science and Technology, 2006, 53, 313-320.	2.5	8
116	Quantitative physiology and elemental composition of Kluyveromyces lactis CBS 2359 during growth on glucose at different specific growth rates. Antonie Van Leeuwenhoek, 2018, 111, 183-195.	1.7	8
117	Validation of a quantitative image analysis methodology for the assessment of the morphology and structure of aerobic granular sludge in the presence of pharmaceutically active compounds. Environmental Technology and Innovation, 2021, 23, 101639.	6.1	8
118	A Study of the Short and Long-term Regulation of E. coli Metabolic Pathways. Journal of Integrative Bioinformatics, 2011, 8, 195-209.	1.5	7
119	Discrimination of clinically relevant Candida species by Fourier-transform infrared spectroscopy with attenuated total reflectance (FTIR-ATR). RSC Advances, 2016, 6, 92065-92072.	3.6	7
120	Treatment of saline wastewater amended with endocrine disruptors by aerobic granular sludge: Assessing performance and microbial community dynamics. Journal of Environmental Chemical Engineering, 2022, 10, 107272.	6.7	7
121	Determination of diffusion coefficients of glycerol and glucose from starch based thermoplastic compounds on simulated physiological solution. Journal of Materials Science: Materials in Medicine, 2005, 16, 239-246.	3.6	6
122	Evolutionary Algorithms for Static and Dynamic Optimization of Fed-batch Fermentation Processes. , 2005, , 288-291.		6
123	Analysis of the effects of hyperbaric gases on S. cerevisiae cell cycle through a morphological approach. Process Biochemistry, 2007, 42, 1378-1383.	3.7	6
124	Merlin: Metabolic Models Reconstruction using Genome-Scale Information. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 120-125.	0.4	6
125	Image analysis application for the study of activated sludge floc size during the treatment of synthetic and real fishery wastewaters. Environmental Science and Pollution Research, 2011, 18, 1390-1397.	5.3	6
126	Online Analysis for Industrial Bioprocesses. , 2017, , 679-704.		6

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127	Modelling diffusion-reaction phenomena in yeast flocs of Saccharomyces cerevisiae. Bioprocess and Biosystems Engineering, 1998, 18, 335-342.	0.5	5
128	MODEL-BASED ADAPTIVE CONTROL OF ACETATE CONCENTRATION DURING THE PRODUCTION OF RECOMBINANT PROTEINS WITH E. COLI. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 461-466.	0.4	5
129	Automated image analysis to improve bead ingestion toxicity test counts in the protozoan Tetrahymena pyriformis. Letters in Applied Microbiology, 2003, 37, 230-233.	2.2	5
130	Raw data pre-processing in the protozoa and metazoa identification by image analysis and multivariate statistical techniques. Journal of Chemometrics, 2007, 21, 156-164.	1.3	5
131	Semantic annotation of biological concepts interplaying microbial cellular responses. BMC Bioinformatics, 2011, 12, 460.	2.6	5
132	SamPler â€“ a novel method for selecting parameters for gene functional annotation routines. BMC Bioinformatics, 2019, 20, 454.	2.6	5
133	Discrimination of Camellia japonica cultivars and chemometric models: An interlaboratory study. Computers and Electronics in Agriculture, 2019, 159, 28-33.	7.7	5
134	Differential Evolution for the Offline and Online Optimization of Fed-Batch Fermentation Processes. Studies in Computational Intelligence, 2008, , 299-317.	0.9	5
135	Evaluating Evolutionary Algorithms and Differential Evolution for the Online Optimization of Fermentation Processes. , 2007, , 236-246.		5
136	Adaptive linearizing control of bioreactors. , 1996, , .		4
137	Assessment of yeast viability under hyperbaric conditions through a modeling approach. Journal of Chemical Technology and Biotechnology, 2005, 80, 872-877.	3.2	4
138	Exact Fuzzy Observer for a Baker's Yeast Fed-Batch Fermentation Process. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	4
139	Determination of Kinetic and Stoichiometric Parameters of Pseudomonas putida F1 by Chemostat and In Situ Pulse Respirometry. Chemical Product and Process Modeling, 2009, 4, .	0.9	4
140	Challenges in integrating Escherichia coli molecular biology data. Briefings in Bioinformatics, 2011, 12, 91-103.	6.5	4
141	High Carbon Load in Food Processing Industrial Wastewater is a Driver for Metabolic Competition in Aerobic Granular Sludge. Frontiers in Environmental Science, 2021, 9, .	3.3	4
142	Image Analysis Technique as a Tool to Identify Morphological Changes in Trametes versicolor Pellets According to Exopolysaccharide or Laccase Production. Applied Biochemistry and Biotechnology, 2014, 172, 2132-2142.	2.9	3
143	A Comparative Proteome Analysis of Escherichia coli Î”relA Mutant Cells. Frontiers in Bioengineering and Biotechnology, 2016, 4, 78.	4.1	3
144	Quantitative image analysis of polyhydroxyalkanoates inclusions from microbial mixed cultures under different SBR operation strategies. Environmental Science and Pollution Research, 2017, 24, 15148-15156.	5.3	3

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145	Exploiting intrinsic fluorescence spectroscopy to discriminate between Acinetobacter calcoaceticusâ€“Acinetobacter baumannii complex species. RSC Advances, 2017, 7, 8581-8588.	3.6	3
146	Mapping Salmonella typhimurium pathways using 13C metabolic flux analysis. Metabolic Engineering, 2019, 52, 303-314.	7.0	3
147	Image Analysis for Automatic Characterization of Polyhydroxyalcanoates Granules. Lecture Notes in Computer Science, 2013, , 790-797.	1.3	3
148	FT-NIR spectroscopy analysis for monitoring the microbial production of 2-phenylethanol using crude glycerol as carbon source. LWT - Food Science and Technology, 2022, 155, 112951.	5.2	3
149	Prediction of sludge settleability, density and suspended solids of aerobic granular sludge in the presence of pharmaceutically active compounds by quantitative image analysis and chemometric tools. Journal of Environmental Chemical Engineering, 2022, 10, 107136.	6.7	3
150	An Integrated System for Advanced Monitoring and Control of Fed-Batch Fermevtations of Recombinant E. coli. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 349-354.	0.4	2
151	Influence of up-flow velocity on the performance of an anaerobic filter under oleic acid overloads. Biotechnology Letters, 2001, 23, 1833-1839.	2.2	2
152	DESIGN OF ON-LINE STATE ESTIMATORS FOR A RECOMBINANT E. COLI FED-BATCH FERMENTATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 67-72.	0.4	2
153	A Critical Review on Modelling Formalisms and Simulation Tools in Computational Biosystems. Lecture Notes in Computer Science, 2009, , 1063-1070.	1.3	2
154	The 10th International Chemical and Biological Engineering Conference (CHEMPOR 2008). International Journal of Chemical Engineering, 2009, 2009, 1-2.	2.4	2
155	Large Scale Dynamic Model Reconstruction for the Central Carbon Metabolism of Escherichia coli. Lecture Notes in Computer Science, 2009, , 1079-1083.	1.3	2
156	Monitoring morphological changes from activated sludge to aerobic granular sludge under distinct organic loading rates and increasing minimal imposed sludge settling velocities through quantitative image analysis. Chemosphere, 2022, 286, 131637.	8.2	2
157	Data Integration Issues in the Reconstruction of the Genome-Scale Metabolic Model of Zymomonas Mobillis. Advances in Soft Computing, 2009, , 92-101.	0.4	2
158	Evolutionary Approaches for Strain Optimization Using Dynamic Models under a Metabolic Engineering Perspective. Lecture Notes in Computer Science, 2009, , 140-151.	1.3	2
159	Quantitative image analysis as a robust tool to assess effluent quality from an aerobic granular sludge system treating industrial wastewater. Chemosphere, 2021, , 132773.	8.2	2
160	A study of the short and long-term regulation of E. coli metabolic pathways. Journal of Integrative Bioinformatics, 2011, 8, 183.	1.5	2
161	Staged and non-staged anaerobic filters: performance in relation to physical and biological characteristics of microbial aggregates. Journal of Chemical Technology and Biotechnology, 2000, 75, 601-609.	3.2	1
162	ESTIMATION OF BIOMASS CONCENTRATION USING INTERVAL OBSERVERS IN AN E. COLI FED-BATCH FERMENTATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 103-108.	0.4	1

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163	A framework for the development of Biomedical Text Mining software tools. , 2008, , .		1
164	Evaluating the integration of proteomic data for the prediction of intracellular fluxes after knockout experiments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 114-119.	0.4	1
165	Applying a Metabolic Footprinting Approach to Characterize the Impact of the Recombinant Protein Production in Escherichia coli. Advances in Intelligent and Soft Computing, 2010, , 193-200.	0.2	1
166	A Systematic Modeling Approach to Elucidate the Triggering of the Stringent Response in Recombinant E. coli Systems. Advances in Intelligent and Soft Computing, 2011, , 313-320.	0.2	1
167	Genome scale metabolic network reconstruction of the pathogen Enterococcus faecalis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 131-136.	0.4	1
168	What is the relationship between intracellular and extracellular metabolites? The theory of â€œmetabolic overflowâ€•put into test. New Biotechnology, 2014, 31, S28-S29.	4.4	1
169	Monitoring intracellular polyphosphate accumulation in enhanced biological phosphorus removal systems by quantitative image analysis. Water Science and Technology, 2014, 69, 2315-2323.	2.5	1
170	Computational Intelligence Techniques for Supervision and Diagnosis of Biological Wastewater Treatment Systems. Studies in Computational Intelligence, 2009, , 127-162.	0.9	1
171	Biomedical Text Mining Applied to Document Retrieval and Semantic Indexing. Lecture Notes in Computer Science, 2009, , 954-963.	1.3	1
172	Evaluating Simulated Annealing Algorithms in the Optimization of Bacterial Strains. , 2007, , 473-484.		1
173	Chapter 18 Dynamic Modelling of Complex Enzymatic Reactions. Data Handling in Science and Technology, 1990, 6, 211-220.	3.1	0
174	Identification of Yield Coefficients in an E.coli Model â€“ An Optimal Experimental Design Using Genetic Algorithms. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 43-48.	0.4	0
175	A framework for the integrated analysis of metabolic and regulatory networks. , 2008, , .		0
176	Editorial: Special Issue Contributed by the 10th International Chemical and Biological Engineering Conference - CHEMPOR 2008. Chemical Product and Process Modeling, 2009, 4, .	0.9	0
177	A Software Tool for the Simulation and Optimization of Dynamic Metabolic Models. Lecture Notes in Computer Science, 2009, , 1071-1078.	1.3	0
178	Modelling of Biotechnological Processes â€“ An Approach Based on Artificial Neural Networks. Studies in Computational Intelligence, 2009, , 311-332.	0.9	0
179	Interpreting the Regulatory Interplay in E. coli Metabolic Pathways. Advances in Intelligent and Soft Computing, 2011, , 303-312.	0.2	0
180	Modelling diffusion-reaction phenomena in yeast flocs of. Bioprocess and Biosystems Engineering, 1998, 18, 335.	0.5	0

#	Article	IF	Citations
181	O papel da investigaÃ§Ã£o e da inovaÃ§Ã£o. , 2020, , 244-262.		0