

Eugnio C Ferreira

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175
papers

3,506
citations

33
h-index

51
g-index

189
ext. papers

4,024
ext. citations

5.1
avg, IF

5.39
L-index

#	Paper	IF	Citations
175	OptFlux: an open-source software platform for in silico metabolic engineering. <i>BMC Systems Biology</i> , 2010 , 4, 45	3.5	258
174	Molecular aspects and comparative genomics of bacteriophage endolysins. <i>Journal of Virology</i> , 2013 , 87, 4558-70	6.6	158
173	Galacto-oligosaccharides production during lactose hydrolysis by free <i>Aspergillus oryzae</i> galactosidase and immobilized on magnetic polysiloxane-polyvinyl alcohol. <i>Food Chemistry</i> , 2009 , 115, 92-99	8.5	148
172	Modeling formalisms in Systems Biology. <i>AMB Express</i> , 2011 , 1, 45	4.1	107
171	Reconstructing genome-scale metabolic models with merlin. <i>Nucleic Acids Research</i> , 2015 , 43, 3899-910	20.1	82
170	Activated sludge monitoring of a wastewater treatment plant using image analysis and partial least squares regression. <i>Analytica Chimica Acta</i> , 2005 , 544, 246-253	6.6	79
169	Natural computation meta-heuristics for the in silico optimization of microbial strains. <i>BMC Bioinformatics</i> , 2008 , 9, 499	3.6	75
168	Tuning of observer-based estimators: theory and application to the on-line estimation of kinetic parameters. <i>Control Engineering Practice</i> , 2000 , 8, 377-388	3.9	75
167	Genomic and proteomic characterization of the broad-host-range Salmonella phage PVP-SE1: creation of a new phage genus. <i>Journal of Virology</i> , 2011 , 85, 11265-73	6.6	73
166	Quantification of the CBD-FITC conjugates surface coating on cellulose fibres. <i>BMC Biotechnology</i> , 2008 , 8, 1	3.5	67
165	The use of antibiotics to improve phage detection and enumeration by the double-layer agar technique. <i>BMC Microbiology</i> , 2009 , 9, 148	4.5	60
164	Metabolic responses to recombinant bioprocesses in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2013 , 164, 396-408	3.7	59
163	Identifying different types of bulking in an activated sludge system through quantitative image analysis. <i>Chemosphere</i> , 2011 , 85, 643-52	8.4	56
162	Random sampling of elementary flux modes in large-scale metabolic networks. <i>Bioinformatics</i> , 2012 , 28, i515-i521	7.2	53
161	Comparison of adsorption equilibrium of fructose, glucose and sucrose on potassium gel-type and macroporous sodium ion-exchange resins. <i>Analytica Chimica Acta</i> , 2009 , 654, 71-6	6.6	49
160	An Overview of the Evolution of Infrared Spectroscopy Applied to Bacterial Typing. <i>Biotechnology Journal</i> , 2018 , 13, 1700449	5.6	47
159	New PLS analysis approach to wine volatile compounds characterization by near infrared spectroscopy (NIR). <i>Food Chemistry</i> , 2018 , 246, 172-178	8.5	47

158	Quantitative monitoring of an activated sludge reactor using on-line UV-visible and near-infrared spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 1159-66	4.4	46
157	Activated sludge characterization through microscopy: a review on quantitative image analysis and chemometric techniques. <i>Analytica Chimica Acta</i> , 2013 , 802, 14-28	6.6	45
156	Monitoring of fed-batch E. coli fermentations with software sensors. <i>Bioprocess and Biosystems Engineering</i> , 2009 , 32, 381-8	3.7	43
155	Hybrid dynamic modeling of Escherichia coli central metabolic network combining Michaelis-Menten and approximate kinetic equations. <i>BioSystems</i> , 2010 , 100, 150-7	1.9	40
154	Stability, dynamics of convergence and tuning of observer-based kinetics estimators. <i>Journal of Process Control</i> , 2002 , 12, 311-323	3.9	40
153	On-line simultaneous monitoring of glucose and acetate with FIA during high cell density fermentation of recombinant E. coli. <i>Analytica Chimica Acta</i> , 2002 , 462, 293-304	6.6	40
152	Population dynamics of a Salmonella lytic phage and its host: implications of the host bacterial growth rate in modelling. <i>PLoS ONE</i> , 2014 , 9, e102507	3.7	40
151	Optimization of fed-batch fermentation processes with bio-inspired algorithms. <i>Expert Systems With Applications</i> , 2014 , 41, 2186-2195	7.8	39
150	Inoculum type response to different pHs on biohydrogen production from l-arabinose, a component of hemicellulosic biopolymers. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 1744-1751	6.7	38
149	Virtual laboratories in (bio)chemical engineering education. <i>Education for Chemical Engineers</i> , 2010 , 5, e22-e27	2.4	38
148	Effect of hyperbaric stress on yeast morphology: study by automated image analysis. <i>Applied Microbiology and Biotechnology</i> , 2004 , 66, 318-24	5.7	38
147	Correlation between sludge settling ability and image analysis information using partial least squares. <i>Analytica Chimica Acta</i> , 2009 , 642, 94-101	6.6	37
146	Selection and characterization of a multivalent Salmonella phage and its production in a nonpathogenic Escherichia coli strain. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 7338-42	4.8	35
145	Recognition of Protozoa and Metazoa using image analysis tools, discriminant analysis, neural networks and decision trees. <i>Analytica Chimica Acta</i> , 2007 , 595, 160-9	6.6	35
144	Monitoring biological wastewater treatment processes: recent advances in spectroscopy applications. <i>Reviews in Environmental Science and Biotechnology</i> , 2017 , 16, 395-424	13.9	33
143	Energy recovery and impact on land use of Maltese municipal solid waste incineration. <i>Energy</i> , 2013 , 49, 1-11	7.9	33
142	Survey of Protozoa and Metazoa populations in wastewater treatment plants by image analysis and discriminant analysis. <i>Environmetrics</i> , 2004 , 15, 381-390	1.3	33
141	iOD907, the first genome-scale metabolic model for the milk yeast <i>Kluyveromyces lactis</i> . <i>Biotechnology Journal</i> , 2014 , 9, 776-90	5.6	31

140	Development of an image analysis procedure for identifying protozoa and metazoa typical of activated sludge system. <i>Water Research</i> , 2007 , 41, 2581-9	12.5	30
139	A study on the convergence of observer-based kinetics estimators in stirred tank bioreactors. <i>Journal of Process Control</i> , 1996 , 6, 367-371	3.9	30
138	Aroma production by <i>Yarrowia lipolytica</i> in airlift and stirred tank bioreactors: Differences in yeast metabolism and morphology. <i>Biochemical Engineering Journal</i> , 2015 , 93, 55-62	4.2	29
137	Automatic identification of activated sludge disturbances and assessment of operational parameters. <i>Chemosphere</i> , 2013 , 91, 705-10	8.4	29
136	Quantitative image analysis for the characterization of microbial aggregates in biological wastewater treatment: a review. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 5887-912	5.1	28
135	@Note: a workbench for biomedical text mining. <i>Journal of Biomedical Informatics</i> , 2009 , 42, 710-20	10.2	28
134	Monitoring of activated sludge settling ability through image analysis: validation on full-scale wastewater treatment plants. <i>Bioprocess and Biosystems Engineering</i> , 2009 , 32, 361-7	3.7	28
133	Mass transfer properties of glucose and O ₂ in <i>Saccharomyces cerevisiae</i> flocs. <i>Biochemical Engineering Journal</i> , 1998 , 2, 35-43	4.2	28
132	Morphological analysis of <i>Yarrowia lipolytica</i> under stress conditions through image processing. <i>Bioprocess and Biosystems Engineering</i> , 2003 , 25, 371-5	3.7	28
131	Characterization of activated sludge abnormalities by image analysis and chemometric techniques. <i>Analytica Chimica Acta</i> , 2011 , 705, 235-42	6.6	27
130	Metabolic footprint analysis of recombinant <i>Escherichia coli</i> strains during fed-batch fermentations. <i>Molecular BioSystems</i> , 2011 , 7, 899-910		27
129	Principal component analysis and quantitative image analysis to predict effects of toxics in anaerobic granular sludge. <i>Bioresource Technology</i> , 2009 , 100, 1180-5	11	27
128	Exploring the gap between dynamic and constraint-based models of metabolism. <i>Metabolic Engineering</i> , 2012 , 14, 112-9	9.7	26
127	Air pollution control with semi-infinite programming. <i>Applied Mathematical Modelling</i> , 2009 , 33, 1957-1969	4.9	26
126	Estimation of effluent quality parameters from an activated sludge system using quantitative image analysis. <i>Chemical Engineering Journal</i> , 2016 , 285, 349-357	14.7	25
125	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. <i>Biotechnology and Bioengineering</i> , 2004 , 87, 194-9	4.9	24
124	Economic analysis and environmental impact assessment of three different fermentation processes for fructooligosaccharides production. <i>Bioresource Technology</i> , 2015 , 198, 673-81	11	20
123	Activated sludge process monitoring through in situ near-infrared spectral analysis. <i>Water Science and Technology</i> , 2008 , 57, 1643-50	2.2	20

122	Quantification of pharmaceutical compounds in wastewater samples by near infrared spectroscopy (NIR). <i>Talanta</i> , 2019 , 194, 507-513	6.2	20
121	Quantitative image analysis as a diagnostic tool for monitoring structural changes of anaerobic granular sludge during detergent shock loads. <i>Biotechnology and Bioengineering</i> , 2007 , 98, 60-8	4.9	19
120	Estimation of multiple biomass growth rates and biomass concentration in a class of bioprocesses. <i>Bioprocess and Biosystems Engineering</i> , 2003 , 25, 395-406	3.7	19
119	Semi-automated recognition of protozoa by image analysis. <i>Biotechnology Letters</i> , 1999 , 13, 111-118		19
118	Simultaneous partial nitrification and 2-fluorophenol biodegradation with aerobic granular biomass: Reactor performance and microbial communities. <i>Bioresource Technology</i> , 2017 , 238, 232-240	11	18
117	A Comparison between bright field and phase-contrast image analysis techniques in activated sludge morphological characterization. <i>Microscopy and Microanalysis</i> , 2010 , 16, 166-74	0.5	18
116	Critical perspective on the consequences of the limited availability of kinetic data in metabolic dynamic modelling. <i>IET Systems Biology</i> , 2011 , 5, 157-63	1.4	17
115	Kinetic and stoichiometric parameters estimation in a nitrifying bubble column through "in-situ" pulse respirometry. <i>Biotechnology and Bioengineering</i> , 2008 , 100, 94-102	4.9	16
114	Development of image analysis techniques as a tool to detect and quantify morphological changes in anaerobic sludge: I. Application to a granulation process. <i>Biotechnology and Bioengineering</i> , 2004 , 87, 184-93	4.9	16
113	Sludge volume index and suspended solids estimation of mature aerobic granular sludge by quantitative image analysis and chemometric tools. <i>Separation and Purification Technology</i> , 2020 , 234, 116049	8.3	16
112	Identification of metabolic engineering targets through analysis of optimal and sub-optimal routes. <i>PLoS ONE</i> , 2013 , 8, e61648	3.7	15
111	Quantitative image analysis as a diagnostic tool for identifying structural changes during a revival process of anaerobic granular sludge. <i>Water Research</i> , 2007 , 41, 1473-80	12.5	15
110	Long-term stability of a non-adapted aerobic granular sludge process treating fish canning wastewater associated to EPS producers in the core microbiome. <i>Science of the Total Environment</i> , 2021 , 756, 144007	10.2	15
109	Prediction of intracellular storage polymers using quantitative image analysis in enhanced biological phosphorus removal systems. <i>Analytica Chimica Acta</i> , 2013 , 770, 36-44	6.6	14
108	Kinetic and stoichiometric characterization of a fixed biofilm reactor by pulse respirometry. <i>Journal of Biotechnology</i> , 2012 , 157, 173-9	3.7	14
107	In situ pulse respirometric methods for the estimation of kinetic and stoichiometric parameters in aerobic microbial communities. <i>Biochemical Engineering Journal</i> , 2011 , 58-59, 12-19	4.2	14
106	Stalked protozoa identification by image analysis and multivariable statistical techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 1321-5	4.4	14
105	Quantitative image analysis as a tool for <i>Yarrowia lipolytica</i> dimorphic growth evaluation in different culture media. <i>Journal of Biotechnology</i> , 2016 , 217, 22-30	3.7	13

104	Selection of Elementary Modes for Bioprocess Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 156-161		13
103	Development of a method using image analysis for the measurement of cellulose-binding domains adsorbed onto cellulose fibers. <i>Biotechnology Progress</i> , 2007 , 23, 1492-7	2.8	13
102	A Comparison of Algorithms for the Optimization of Fermentation Processes		13
101	Near-infrared spectroscopy for the detection and quantification of bacterial contaminations in pharmaceutical products. <i>International Journal of Pharmaceutics</i> , 2015 , 492, 199-206	6.5	12
100	Polyhydroxyalkanoate granules quantification in mixed microbial cultures using image analysis: Sudan Black B versus Nile Blue A staining. <i>Analytica Chimica Acta</i> , 2015 , 865, 8-15	6.6	12
99	Advanced monitoring of high-rate anaerobic reactors through quantitative image analysis of granular sludge and multivariate statistical analysis. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 445-564	4.9	12
98	Genome-wide metabolic (re-) annotation of <i>Kluyveromyces lactis</i> . <i>BMC Genomics</i> , 2012 , 13, 517	4.5	12
97	The study of protozoa population in wastewater treatment plants by image analysis. <i>Brazilian Journal of Chemical Engineering</i> , 2001 , 18, 103-111	1.7	12
96	Bio-Based Nanoparticles as a Carrier of β -Carotene: Production, Characterisation and In Vitro Gastrointestinal Digestion. <i>Molecules</i> , 2020 , 25,	4.8	12
95	Environmental impact and biological removal processes of pharmaceutically active compounds: The particular case of sulfonamides, anticonvulsants and steroid estrogens. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 698-742	11.1	12
94	Variability in the composition of extracellular polymeric substances from a full-scale aerobic granular sludge reactor treating urban wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104156	6.8	11
93	Genome-wide metabolic re-annotation of <i>Ashbya gossypii</i> : new insights into its metabolism through a comparative analysis with <i>Saccharomyces cerevisiae</i> and <i>Kluyveromyces lactis</i> . <i>BMC Genomics</i> , 2014 , 15, 810	4.5	11
92	State and specific growth estimation in heterologous protein production by <i>Pichia pastoris</i> . <i>AIChE Journal</i> , 2012 , 58, 2966-2979	3.6	11
91	Study of saline wastewater influence on activated sludge flocs through automated image analysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 554-560	3.5	11
90	Dilution and magnification effects on image analysis applications in activated sludge characterization. <i>Microscopy and Microanalysis</i> , 2010 , 16, 561-8	0.5	11
89	IMPLEMENTATION OF A SPECIFIC RATE CONTROLLER IN A FED-BATCH E. COLI FERMENTATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 15565-15570		11
88	Can spreadsheet solvers solve demanding optimization problems?. <i>Computer Applications in Engineering Education</i> , 2001 , 9, 49-56	1.6	11
87	Genome-Wide Semi-Automated Annotation of Transporter Systems. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2017 , 14, 443-456	3	10

86	Salmonella typhimurium and Escherichia coli dissimilarity: Closely related bacteria with distinct metabolic profiles. <i>Biotechnology Progress</i> , 2015 , 31, 1217-25	2.8	10
85	Assessment of physiological conditions in E. coli fermentations by epifluorescent microscopy and image analysis. <i>Biotechnology Progress</i> , 2009 , 25, 882-91	2.8	10
84	Evolutionary Algorithms for Optimal Control in Fed-Batch Fermentation Processes. <i>Lecture Notes in Computer Science</i> , 2004 , 84-93	0.9	10
83	Reconstructing High-Quality Large-Scale Metabolic Models with merlin. <i>Methods in Molecular Biology</i> , 2018 , 1716, 1-36	1.4	10
82	Stringent response of Escherichia coli: revisiting the bibliome using literature mining. <i>Microbial Informatics and Experimentation</i> , 2011 , 1, 14		9
81	Morphology and physiology of anaerobic granular sludge exposed to an organic solvent. <i>Journal of Hazardous Materials</i> , 2009 , 167, 393-8	12.8	9
80	A chemometric tool to monitor high-rate anaerobic granular sludge reactors during load and toxic disturbances. <i>Biochemical Engineering Journal</i> , 2010 , 53, 38-43	4.2	9
79	BioDR: Semantic indexing networks for biomedical document retrieval. <i>Expert Systems With Applications</i> , 2010 , 37, 3444-3453	7.8	9
78	Optimization of bacterial nanocellulose fermentation using recycled paper sludge and development of novel composites. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 9143-9154	5.7	8
77	Influence of the RelA Activity on E. coli Metabolism by Metabolite Profiling of Glucose-Limited Chemostat Cultures. <i>Metabolites</i> , 2012 , 2, 717-32	5.6	8
76	Application of image analysis to the prediction of EBC barley kernel weight distribution. <i>Industrial Crops and Products</i> , 2009 , 30, 366-371	5.9	8
75	Evaluating evolutionary multiobjective algorithms for the in silico optimization of mutant strains 2008 ,		8
74	Image analysis, methanogenic activity measurements, and molecular biological techniques to monitor granular sludge from an EGSB reactor fed with oleic acid. <i>Water Science and Technology</i> , 2003 , 47, 181-188	2.2	8
73	Degradation of widespread pharmaceuticals by activated sludge: Kinetic study, toxicity assessment, and comparison with adsorption processes. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101061	6.7	8
72	NIR spectroscopy applied to the determination of 2-phenylethanol and l-phenylalanine concentrations in culture medium of Yarrowia lipolytica. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 812-818	3.5	8
71	A Study of the Short and Long-term Regulation of E. coli Metabolic Pathways. <i>Journal of Integrative Bioinformatics</i> , 2011 , 8, 195-209	3.8	7
70	Identification of minimal metabolic pathway models consistent with phenotypic data. <i>Journal of Process Control</i> , 2011 , 21, 1483-1492	3.9	7
69	A Dynamical Model for the Fermentative Production of Fructooligosaccharides. <i>Computer Aided Chemical Engineering</i> , 2009 , 1827-1832	0.6	7

68	Knowledge-based fuzzy system for diagnosis and control of an integrated biological wastewater treatment process. <i>Water Science and Technology</i> , 2006 , 53, 313-20	2.2	7
67	Increased extracellular polymeric substances production contributes for the robustness of aerobic granular sludge during long-term intermittent exposure to 2-fluorophenol in saline wastewater. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101977	6.7	7
66	Discrimination of clinically relevant <i>Candida</i> species by Fourier-transform infrared spectroscopy with attenuated total reflectance (FTIR-ATR). <i>RSC Advances</i> , 2016 , 6, 92065-92072	3.7	7
65	Online Analysis for Industrial Bioprocesses: Broth Analysis 2017 , 679-704		6
64	Image analysis application for the study of activated sludge floc size during the treatment of synthetic and real fishery wastewaters. <i>Environmental Science and Pollution Research</i> , 2011 , 18, 1390-7	5.1	6
63	Determination of diffusion coefficients of glycerol and glucose from starch based thermoplastic compounds on simulated physiological solution. <i>Journal of Materials Science: Materials in Medicine</i> , 2005 , 16, 239-46	4.5	6
62	Evolutionary Algorithms for Static and Dynamic Optimization of Fed-batch Fermentation Processes 2005 , 288-291		6
61	Semantic annotation of biological concepts interplaying microbial cellular responses. <i>BMC Bioinformatics</i> , 2011 , 12, 460	3.6	5
60	Modelling diffusion-reaction phenomena in yeast flocs of <i>Saccharomyces cerevisiae</i> . <i>Bioprocess and Biosystems Engineering</i> , 1998 , 18, 335-342		5
59	Raw data pre-processing in the protozoa and metazoa identification by image analysis and multivariate statistical techniques. <i>Journal of Chemometrics</i> , 2007 , 21, 156-164	1.6	5
58	Analysis of the effects of hyperbaric gases on <i>S. cerevisiae</i> cell cycle through a morphological approach. <i>Process Biochemistry</i> , 2007 , 42, 1378-1383	4.8	5
57	MODEL-BASED ADAPTIVE CONTROL OF ACETATE CONCENTRATION DURING THE PRODUCTION OF RECOMBINANT PROTEINS WITH <i>E. COLI</i> . <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 461-466		5
56	Differential Evolution for the Offline and Online Optimization of Fed-Batch Fermentation Processes. <i>Studies in Computational Intelligence</i> , 2008 , 299-317	0.8	5
55	Modelling diffusion-reaction phenomena in yeast flocs of. <i>Bioprocess and Biosystems Engineering</i> , 1998 , 18, 335		5
54	A kinetic model of the central carbon metabolism for acrylic acid production in <i>Escherichia coli</i> . <i>PLoS Computational Biology</i> , 2021 , 17, e1008704	5	5
53	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. <i>Microorganisms</i> , 2021 , 9,	4.9	5
52	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. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101639	7	5
51	Challenges in integrating <i>Escherichia coli</i> molecular biology data. <i>Briefings in Bioinformatics</i> , 2011 , 12, 91-103	13.4	4

50	. <i>IEEE International Conference on Fuzzy Systems, 2007,</i>		4
49	Automated image analysis to improve bead ingestion toxicity test counts in the protozoan <i>Tetrahymena pyriformis</i> . <i>Letters in Applied Microbiology</i> , 2003 , 37, 230-3	2.9	4
48	Evaluating Evolutionary Algorithms and Differential Evolution for the Online Optimization of Fermentation Processes 2007 , 236-246		4
47	Environmentally-friendly technology for rapid identification and quantification of emerging pollutants from wastewater using infrared spectroscopy. <i>Environmental Toxicology and Pharmacology</i> , 2020 , 80, 103458	5.8	4
46	Assessment of an aerobic granular sludge system in the presence of pharmaceutically active compounds by quantitative image analysis and chemometric techniques. <i>Journal of Environmental Management</i> , 2021 , 289, 112474	7.9	4
45	Quantitative image analysis of polyhydroxyalkanoates inclusions from microbial mixed cultures under different SBR operation strategies. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 15148-15156 ³	5.1	3
44	SamPler - a novel method for selecting parameters for gene functional annotation routines. <i>BMC Bioinformatics</i> , 2019 , 20, 454	3.6	3
43	Image analysis technique as a tool to identify morphological changes in <i>Trametes versicolor</i> pellets according to exopolysaccharide or laccase production. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 172, 2132-42	3.2	3
42	Exploiting intrinsic fluorescence spectroscopy to discriminate between <i>Acinetobacter calcoaceticus</i> / <i>Acinetobacter baumannii</i> complex species. <i>RSC Advances</i> , 2017 , 7, 8581-8588	3.7	3
41	Determination of Kinetic and Stoichiometric Parameters of <i>Pseudomonas putida</i> F1 by Chemostat and In Situ Pulse Respirometry. <i>Chemical Product and Process Modeling</i> , 2009 , 4,	1.1	3
40	Merlin: Metabolic Models Reconstruction using Genome-Scale Information*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 120-125		3
39	Assessment of yeast viability under hyperbaric conditions through a modeling approach. <i>Journal of Chemical Technology and Biotechnology</i> , 2005 , 80, 872-877	3.5	3
38	Image Analysis for Automatic Characterization of Polyhydroxyalkanoates Granules. <i>Lecture Notes in Computer Science</i> , 2013 , 790-797	0.9	3
37	A Comparative Proteome Analysis of Δ Mutant Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016 , 4, 78	5.8	3
36	merlinv4.0: an updated platform for the reconstruction of high-quality genome-scale metabolic models		3
35	Discrimination of <i>Camellia japonica</i> cultivars and chemometric models: An interlaboratory study. <i>Computers and Electronics in Agriculture</i> , 2019 , 159, 28-33	6.5	2
34	Quantitative physiology and elemental composition of <i>Kluyveromyces lactis</i> CBS 2359 during growth on glucose at different specific growth rates. <i>Antonie Van Leeuwenhoek</i> , 2018 , 111, 183-195	2.1	2
33	The 10th International Chemical and Biological Engineering Conference (CHEMPOR 2008). <i>International Journal of Chemical Engineering</i> , 2009 , 2009, 1-2	2.2	2

32	DESIGN OF ON-LINE STATE ESTIMATORS FOR A RECOMBINANT E. COLI FED-BATCH FERMENTATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 67-72		2
31	Influence of up-flow velocity on the performance of an anaerobic filter under oleic acid overloads. <i>Biotechnology Letters</i> , 2001 , 23, 1833-1839	3	2
30	Adaptive linearizing control of bioreactors 1996 ,		2
29	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. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107136	6.8	2
28	Evolutionary Approaches for Strain Optimization Using Dynamic Models under a Metabolic Engineering Perspective. <i>Lecture Notes in Computer Science</i> , 2009 , 140-151	0.9	2
27	High Carbon Load in Food Processing Industrial Wastewater is a Driver for Metabolic Competition in Aerobic Granular Sludge. <i>Frontiers in Environmental Science</i> , 2021 , 9,	4.8	2
26	Effect of ibuprofen on extracellular polymeric substances (EPS) production and composition, and assessment of microbial structure by quantitative image analysis. <i>Journal of Environmental Management</i> , 2021 , 293, 112852	7.9	2
25	Genome scale metabolic network reconstruction of the pathogen <i>Enterococcus faecalis</i> . <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 131-136		1
24	A Systematic Modeling Approach to Elucidate the Triggering of the Stringent Response in Recombinant E. coli Systems. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 313-320		1
23	A Critical Review on Modelling Formalisms and Simulation Tools in Computational Biosystems. <i>Lecture Notes in Computer Science</i> , 2009 , 1063-1070	0.9	1
22	Large Scale Dynamic Model Reconstruction for the Central Carbon Metabolism of <i>Escherichia coli</i> . <i>Lecture Notes in Computer Science</i> , 2009 , 1079-1083	0.9	1
21	Applying a Metabolic Footprinting Approach to Characterize the Impact of the Recombinant Protein Production in <i>Escherichia coli</i> . <i>Advances in Intelligent and Soft Computing</i> , 2010 , 193-200		1
20	Staged and non-staged anaerobic filters: performance in relation to physical and biological characteristics of microbial aggregates. <i>Journal of Chemical Technology and Biotechnology</i> , 2000 , 75, 601-609	3.5	1
19	Quantitative image analysis as a robust tool to assess effluent quality from an aerobic granular sludge system treating industrial wastewater. <i>Chemosphere</i> , 2021 , 132773	8.4	1
18	Evaluating Simulated Annealing Algorithms in the Optimization of Bacterial Strains 2007 , 473-484		1
17	Data Integration Issues in the Reconstruction of the Genome-Scale Metabolic Model of <i>Zymomonas Mobilis</i> . <i>Advances in Soft Computing</i> , 2009 , 92-101		1
16	Computational Intelligence Techniques for Supervision and Diagnosis of Biological Wastewater Treatment Systems. <i>Studies in Computational Intelligence</i> , 2009 , 127-162	0.8	1
15	Mapping <i>Salmonella typhimurium</i> pathways using C metabolic flux analysis. <i>Metabolic Engineering</i> , 2019 , 52, 303-314	9.7	1

14	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. <i>Chemosphere</i> , 2022 , 286, 131637	8.4	1
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