Francisco Javier Lafuente Sancho

List of Publications by Year
in descending order

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140	4,656	81900	128289
papers	citations	39 h-index	60 g-index

140	140	140	3431
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of influent COD/N ratio on biological nitrogen removal (BNR) from high-strength ammonium industrial wastewater. Process Biochemistry, 2004, 39, 2035-2041.	3.7	191
2	Biological nitrogen removal of high-strength ammonium industrial wastewater with two-sludge system. Water Research, 2003, 37, 4211-4221.	11.3	148
3	Biological sweetening of energy gases mimics in biotrickling filters. Chemosphere, 2008, 71, 10-17.	8.2	146
4	Respirometric estimation of the oxygen affinity constants for biological ammonium and nitrite oxidation. Journal of Chemical Technology and Biotechnology, 2005, 80, 388-396.	3.2	132
5	Kinetic models for nitrification inhibition by ammonium and nitrite in a suspended and an immobilised biomass systems. Process Biochemistry, 2004, 39, 1159-1165.	3.7	115
6	Total and stable washout of nitrite oxidizing bacteria from a nitrifying continuous activated sludge system using automatic control based on Oxygen Uptake Rate measurements. Water Research, 2009, 43, 2761-2772.	11.3	113
7	Effect of internal recycle on the nitrogen removal efficiency of an anaerobic/anoxic/oxic (A2/O) wastewater treatment plant (WWTP). Process Biochemistry, 2004, 39, 1615-1624.	3.7	106
8	Inorganic carbon limitations on nitrification: Experimental assessment and modelling. Water Research, 2007, 41, 277-286.	11.3	101
9	A detailed model of a biofilter for ammonia removal: Model parameters analysis and model validation. Chemical Engineering Journal, 2005, 113, 205-214.	12.7	91
10	Fungal biofilters for toluene biofiltration: Evaluation of the performance with four packing materials under different operating conditions. Chemosphere, 2007, 67, 684-692.	8.2	90
11	Start-up of a nitrification system with automatic control to treat highly concentrated ammonium wastewater: Experimental results and modeling. Chemical Engineering Journal, 2008, 144, 407-419.	12.7	78
12	Aerobic phosphorus release linked to acetate uptake: Influence of PAO intracellular storage compounds. Biochemical Engineering Journal, 2005, 26, 184-190.	3.6	74
13	Physiological control on the expression and secretion of Candida rugosa lipase. Chemistry and Physics of Lipids, 1998, 93, 143-148.	3.2	71
14	Modeling of a bacterial and fungal biofilter applied to toluene abatement: Kinetic parameters estimation and model validation. Chemical Engineering Journal, 2008, 140, 52-61.	12.7	71
15	Operational aspects of the desulfurization process of energy gases mimics in biotrickling filters. Water Research, 2011, 45, 5665-5674.	11.3	67
16	Operational aspects, pH transition and microbial shifts of a H2S desulfurizing biotrickling filter with random packing material. Chemosphere, 2013, 93, 2675-2682.	8.2	67
17	Aerobic desulfurization of biogas by acidic biotrickling filtration in a randomly packed reactor. Journal of Hazardous Materials, 2014, 280, 200-208.	12.4	66
18	Highly enantioselective esterification of racemic ibuprofen in a packed bed reactor using immobilised Rhizomucor miehei lipase. Enzyme and Microbial Technology, 2000, 27, 157-166.	3.2	63

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19	Combined effect of inorganic carbon limitation and inhibition by free ammonia and free nitrous acid on ammonia oxidizing bacteria. Bioresource Technology, 2010, 101, 6051-6058.	9.6	63
20	A comparative study based on physical characteristics of suitable packing materials in biofiltration. Environmental Technology (United Kingdom), 2010, 31, 193-204.	2.2	63
21	A hybrid supervisory system to support WWTP operation: implementation and validation. Water Science and Technology, 2002, 45, 289-297.	2.5	62
22	Cost and effluent quality controllers design based on the relative gain array for a nutrient removal WWTP. Water Research, 2009, 43, 5129-5141.	11.3	62
23	Kinetic and stoichiometric characterization of anoxic sulfide oxidation by SO-NR mixed cultures from anoxic biotrickling filters. Applied Microbiology and Biotechnology, 2015, 99, 77-87.	3.6	58
24	Life cycle assessment of different physical-chemical and biological technologies for biogas desulfurization in sewage treatment plants. Journal of Cleaner Production, 2018, 181, 663-674.	9.3	58
25	Effects of different fatty acids in lipase production by Candida rugosa. Biotechnology Letters, 1993, 15, 357-360.	2.2	56
26	Bacterial community analysis of a gas-phase biotrickling filter for biogas mimics desulfurization through the rRNA approach. Chemosphere, 2010, 80, 872-880.	8.2	56
27	Aerobic phosphorus release linked to acetate uptake in bio-P sludge: Process modeling using oxygen uptake rate. Biotechnology and Bioengineering, 2004, 85, 722-733.	3.3	55
28	Biomass accumulation in a biofilter treating toluene at high loads â€“ Part 1: Experimental performance from inoculation to clogging. Chemical Engineering Journal, 2012, 209, 661-669.	12.7	52
29	Respirometric characterization of aerobic sulfide, thiosulfate and elemental sulfur oxidation by S-oxidizing biomass. Water Research, 2016, 89, 282-292.	11.3	52
30	Stability studies and effect of the initial oleic acid concentration on lipase production by Candida rugosa. Applied Microbiology and Biotechnology, 1995, 43, 38-41.	3.6	48
31	Enhancement ofCandida rugosa lipase production by using different control fed-batch operational strategies. , 1998, 60, 156-168.		48
32	Improving the nitrogen removal efficiency of an A2/O based WWTP by using an on-line Knowledge Based Expert System. Water Research, 2002, 36, 2109-2123.	11.3	48
33	Respirometric calibration and validation of a biological nitrite oxidation model including biomass growth and substrate inhibition. Water Research, 2005, 39, 4574-4584.	11.3	48
34	Technical and economical study of a full-scale biotrickling filter for H2S removal from biogas. Water Practice and Technology, 2009, 4, .	2.0	48
35	Net P-removal deterioration in enriched PAO sludge subjected to permanent aerobic conditions. Journal of Biotechnology, 2006, 123, 117-126.	3.8	47
36	Systematic identifiability study based on the Fisher Information Matrix for reducing the number of parameters calibration of an activated sludge model. Environmental Modelling and Software, 2009, 24, 1274-1284.	4.5	46

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37	DAI-DEPUR: an integrated and distributed architecture for wastewater treatment plants supervision. Advanced Engineering Informatics, 1996, 10, 275-285.	0.5	44
38	Gas pollutants removal in a single- and two-stage ejectorâ€“venturi scrubber. Journal of Hazardous Materials, 2002, 90, 251-266.	12.4	44
39	Influence of trickling liquid velocity and flow pattern in the improvement of oxygen transport in aerobic biotrickling filters for biogas desulfurization. Journal of Chemical Technology and Biotechnology, 2016, 91, 1031-1039.	3.2	44
40	Development and economic assessment of different WWTP control strategies for optimal simultaneous removal of carbon, nitrogen and phosphorus. Computers and Chemical Engineering, 2013, 53, 164-177.	3.8	41
41	Performance, limitations and microbial diversity of a biotrickling filter for the treatment of high loads of ammonia. Chemical Engineering Journal, 2017, 311, 91-99.	12.7	41
42	Long-term starvation and subsequent reactivation of a high-rate partial nitrification activated sludge pilot plant. Bioresource Technology, 2011, 102, 9870-9875.	9.6	40
43	Effect of gas-liquid flow pattern and microbial diversity analysis of a pilot-scale biotrickling filter for anoxic biogas desulfurization. Chemosphere, 2016, 157, 215-223.	8.2	40
44	An expert supervisory system for a pilot WWTP. Environmental Modelling and Software, 1999, 14, 383-390.	4.5	39
45	Evaluation of Mass Transfer Coefficients in Biotrickling Filters: Experimental Determination and Comparison to Correlations. Chemical Engineering and Technology, 2009, 32, 1941-1950.	1.5	39
46	Automated thresholding method (ATM) for biomass fraction determination using FISH and confocal microscopy. Journal of Chemical Technology and Biotechnology, 2009, 84, 1140-1145.	3.2	39
47	Economical assessment of the design, construction and operation of open-bed biofilters for waste gas treatment. Journal of Environmental Management, 2009, 90, 2515-2523.	7.8	38
48	The role of water in the performance of biofilters: Parameterization of pressure drop and sorption capacities for common packing materials. Journal of Hazardous Materials, 2010, 180, 693-702.	12.4	37
49	On-Line fermentation monitoring using flow injection analysis. Biotechnology and Bioengineering, 1990, 36, 647-651.	3.3	36
50	Characterisation and performance of coconut fibre as packing material in the removal of ammonia in gas-phase biofilters. Biosystems Engineering, 2007, 97, 481-490.	4.3	36
51	Modeling an aerobic biotrickling filter for biogas desulfurization through a multi-step oxidation mechanism. Chemical Engineering Journal, 2016, 294, 447-457.	12.7	36
52	Structured modeling and state estimation in a fermentation process: Lipase production byCandida rugosa. Biotechnology and Bioengineering, 1995, 48, 573-584.	3.3	35
53	Knowledge-based supervision and control of wastewater treatment plant: a real-time implementation. Water Science and Technology, 2000, 41, 129-137.	2.5	35
54	The Influence of Experimental Data Quality and Quantity on Parameter Estimation Accuracy. Education for Chemical Engineers, 2006, 1, 139-145.	4.8	34

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55	Development and application of a hybrid inert/organic packing material for the biofiltration of composting off-gases mimics. Journal of Hazardous Materials, 2010, 178, 665-672.	12.4	34
56	Monitoring and performance of a desulphurizing biotrickling filter with an integrated continuous gas/liquid flow analyser. Chemical Engineering Journal, 2010, 165, 500-507.	12.7	32
57	Simultaneous Removal of H2S, NH3, and Ethyl Mercaptan in Biotrickling Filters Packed with Poplar Wood and Polyurethane Foam: Impact of pH During Startup and Crossed Effects Evaluation. Water, Air, and Soil Pollution, 2012, 223, 3485-3497.	2.4	32
58	Improving lipase production from Candida rugosa by a biochemical engineering approach. Chemistry and Physics of Lipids, 1998, 93, 131-142.	3.2	29
59	Response of an EBPR population developed in an SBR with propionate to different carbon sources. Water Science and Technology, 2004, 50, 131-138.	2.5	29
60	DEPUR: A knowledge-based tool for wastewater treatment plants. Engineering Applications of Artificial Intelligence, 1994, 7, 23-30.	8.1	26
61	Bulky pyrazole as ligands in rhodium(I) complexes. Crystal structure of chlorodicarbonyl (3-p-methoxyphenylpyrazole)rhodium(I). Polyhedron, 1995, 14, 1139-1147.	2.2	26
62	Effect of nitrogen sources in batch and continuous cultures to lipase production byCandida rugosa. Applied Biochemistry and Biotechnology, 1996, 59, 25-37.	2.9	26
63	Feedforward control application in aerobic and anoxic biotrickling filters for H₂S removal from biogas. Journal of Chemical Technology and Biotechnology, 2018, 93, 2307-2315.	3.2	26
64	Concept Formation in WWTP by Means of Classification Techniques: A Compared Study. Applied Intelligence, 1997, 7, 147-165.	5.3	25
65	Oxidation of biologically produced elemental sulfur under neutrophilic conditions. Journal of Chemical Technology and Biotechnology, 2010, 85, 378-386.	3.2	25
66	Uses of Î²-galactosidase tag in on-line monitoring production of fusion proteins and gene expression in Escherichia coli. Enzyme and Microbial Technology, 1993, 15, 66-71.	3.2	24
67	On-line monitoring of the enhanced biological phosphorus removal process using respirometry and titrimetry. Biochemical Engineering Journal, 2007, 35, 371-379.	3.6	24
68	High-throughput nitritation of reject water with a novel ammonium control loop: Stable effluent generation for anammox or heterotrophic denitritation. Chemical Engineering Journal, 2014, 243, 265-271.	12.7	24
69	Analysis of MSW full-scale facilities based on anaerobic digestion and/or composting using respiration indices as performance indicators. Bioresource Technology, 2017, 236, 87-96.	9.6	24
70	A novel FIA configuration for the simultaneous determination of nitrate and nitrite and its use for monitoring an urban waste water treatment plant based on N/D criteria. Analytica Chimica Acta, 1998, 359, 173-183.	5.4	23
71	On-line monitoring of gas-phase bioreactors for biogas treatment: hydrogen sulfide and sulfide analysis by automated flow systems. Analytical and Bioanalytical Chemistry, 2008, 391, 789-798.	3.7	23
72	Application of a novel respirometric methodology to characterize mass transfer and activity of H2S-oxidizing biofilms in biotrickling filter beds. Biochemical Engineering Journal, 2015, 99, 24-34.	3.6	23

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73	The hydrodynamics of ejector-Venturi scrubbers and their modelling by an annular flow/boundary layer model. Chemical Engineering Science, 2002, 57, 2707-2718.	3.8	22
74	An off-line respirometric procedure to determine inhibition and toxicity of biodegradable compounds in biomass from an industrial WWTP. Water Science and Technology, 2004, 48, 267-275.	2.5	22
75	Application of extended Kalman filter to identification of enzymatic deactivation. Biotechnology and Bioengineering, 1987, 29, 366-369.	3.3	21
76	Development of a real-time expert system for wastewater treatment plants control. Control Engineering Practice, 1993, 1, 329-335.	5.5	21
77	Fluid flow and pumping efficiency in an ejector-venturi scrubber. Chemical Engineering and Processing: Process Intensification, 2004, 43, 127-136.	3.6	21
78	Characterization of odorous compounds and odor load in indoor air of modern complex MBT facilities. Chemical Engineering Journal, 2017, 313, 1311-1319.	12.7	20
79	Kinetic modelling of isomerization and anaerobic degradation of n- and i-butyrate. Journal of Bioscience and Bioengineering, 1990, 69, 261-264.	0.9	19
80	In-line fast OUR (oxygen uptake rate) measurements for monitoring and control of WWTP. Water Science and Technology, 2002, 45, 19-28.	2.5	19
81	Observation and mathematical description of the acceleration phenomenon in batch respirograms associated with ammonium oxidation. Water Science and Technology, 2006, 54, 181-188.	2.5	19
82	Characterization of the bacterial community in a biotrickling filter treating high loads of H2S by molecular biology tools. Water Science and Technology, 2009, 59, 1331-1337.	2.5	19
83	Response of an EBPR population developed in an SBR with propionate to different carbon sources. Water Science and Technology, 2004, 50, 131-8.	2.5	19
84	Study of the drop size frequencies in a microbial growth system with an aqueous-organic culture medium: lipase production from Candida rugosa. Journal of Biotechnology, 1998, 59, 183-192.	3.8	18
85	The Role of the Liquid Film on the Mass Transfer in Venturi-Based Scrubbers. Chemical Engineering Research and Design, 2004, 82, 372-380.	5.6	18
86	Biomass accumulation in a biofilter treating toluene at high loads â€“ Part 2: Model development, calibration and validation. Chemical Engineering Journal, 2012, 209, 670-676.	12.7	18
87	Respiratory, ocular and skin health in recreational and competitive swimmers: Beneficial effect of a new method to reduce chlorine oxidant derivatives. Environmental Research, 2017, 152, 315-321.	7.5	18
88	Improvement of lipase productivity in bioprocesses using a structured mathematical model. Journal of Biotechnology, 1997, 52, 207-218.	3.8	17
89	ISCWAP: A knowledge-based system for supervising activated sludge processes. Computers and Chemical Engineering, 1997, 21, 211-221.	3.8	17
90	Startup and long-term performance of biotrickling filters packed with polyurethane foam and poplar wood chips treating a mixture of ethylmercaptan, H₂S, and NH₃. Journal of the Air and Waste Management Association, 2013, 63, 462-471.	1.9	17

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91	Non-linear Predictive Control of Dissolved Oxygen in the Activated Sludge Process. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1992, 25, 289-293.	0.4	16
92	Development of a kinetic model for elemental sulfur and sulfate formation from the autotrophic sulfide oxidation using respirometric techniques. Water Science and Technology, 2009, 59, 1323-1329.	2.5	16
93	Performance/robustness tradeoff analysis of PI/PID servo and regulatory control systems. , 2010, , .		16
94	Biomass estimation using on-line glucose monitoring by flow injection analysis. Applied Biochemistry and Biotechnology, 1990, 24-25, 591-602.	2.9	15
95	Inhibition of nitrification by fluoride in high-strength ammonium wastewater in activated sludge. Process Biochemistry, 2003, 39, 73-79.	3.7	15
96	Continuous enantioselective esterification of trans-2-phenyl-1-cyclohexanol using a new Candida rugosa lipase in a packed bed bioreactor. Journal of Biotechnology, 2000, 84, 1-12.	3.8	14
97	Retrofitting of an Industrial Chemical Scrubber into a Biotrickling Filter: Performance at a Gas Contact Time below 1s. Journal of Environmental Engineering, ASCE, 2009, 135, 359-366.	1.4	14
98	Fast start-up and controlled operation during a long-term period of a high-rate partial nitrification activated sludge system. Environmental Technology (United Kingdom), 2012, 33, 1361-1366.	2.2	14
99	Effect of Different Operational Parameters in the Enhanced Biological Phosphorus Removal Process. Experimental Design and Results. Environmental Technology (United Kingdom), 2001, 22, 1439-1446.	2.2	13
100	Feasibility of S-rich streams valorization through a two-step biosulfur production process. Chemosphere, 2020, 253, 126734.	8.2	13
101	Title is missing!. Biotechnology Letters, 1998, 20, 1145-1148.	2.2	12
102	Interaction between sorption and biodegradation in a biofilter packed with activated carbon. Water Science and Technology, 2012, 66, 1743-1750.	2.5	12
103	Activated sludge model 2d calibration with full-scale WWTP data: comparing model parameter identifiability with influent and operational uncertainty. Bioprocess and Biosystems Engineering, 2014, 37, 1271-1287.	3.4	12
104	Characterization and evaluation of poplar and pine wood in twin biotrickling filters treating a mixture of NH₃, H₂S, butyric acid, and ethylmercaptan. Environmental Progress and Sustainable Energy, 2017, 36, 171-179.	2.3	12
105	Software development to fermentation gas analysis using mass spectrometry. Biotechnology Letters, 1993, 7, 429-434.	0.5	10
106	On-line titrimetric monitoring of anaerobicâ€“anoxic EBPR processes. Water Science and Technology, 2008, 57, 1149-1154.	2.5	10
107	Obtaining microbial communities with exoelectrogenic activity from anaerobic sludge using a simplified procedure. Journal of Chemical Technology and Biotechnology, 2014, 89, 1727-1732.	3.2	10
108	Screening of biological sulfate reduction conditions for sulfidogenesis promotion using a methanogenic granular sludge. Chemosphere, 2018, 210, 557-566.	8.2	10

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109	Exploring the performance limits of a sulfidogenic UASB during the long-term use of crude glycerol as electron donor. Science of the Total Environment, 2019, 688, 1184-1192.	8.0	10
110	On-line monitoring of lipolytic activity by sequential injection analysis. Biotechnology Letters, 2000, 22, 1783-1788.	2.2	9
111	A dynamic model for ammonia abatement by gas-phase biofiltration including pH and leachate modelling. Biosystems Engineering, 2007, 97, 431-440.	4.3	9
112	Influence of crude glycerol load and pH shocks on the granulation and microbial diversity of a sulfidogenic Upflow Anaerobic Sludge Blanket reactor. Chemical Engineering Research and Design, 2020, 133, 159-168.	5.6	9
113	Simultaneous on line monitoring of intracellular Î²-galactosidase activity and biomass using flow injection analysis inEscherichia coli batch fermentations. Biotechnology Letters, 1992, 6, 213-218.	0.5	8
114	On-line enzyme activity determination using the stopped-flow technique: application to laccase activity in pulp mill waste-water treatment. Applied Microbiology and Biotechnology, 1997, 48, 168-173.	3.6	8
115	Expert control for a stable operation of a partial nitrification system to treat highly concentrated ammonium wastewater. Water Science and Technology, 2009, 60, 1191-1199.	2.5	8
116	Benefits of carbon dioxide as pH reducer in chlorinated indoor swimming pools. Chemosphere, 2010, 80, 428-432.	8.2	8
117	On-line determination of the total lipolytic activity in a four-phase system using a lipase adsorption law. Journal of Bioscience and Bioengineering, 1999, 87, 500-506.	2.2	7
118	Stability studies and effect of the initial oleic acid concentration on lipase production by Candida rugosa. Applied Microbiology and Biotechnology, 1995, 43, 38-41.	3.6	7
119	Enhancement of Candida rugosa lipase production by using different control fed-batch operational strategies. Biotechnology and Bioengineering, 1998, 60, 156-68.	3.3	7
120	Model-based control structure design of a full-scale WWTP under the retrofitting process. Water Science and Technology, 2015, 71, 1661-1671.	2.5	6
121	Improving the start-up of an EBPR system using OUR to control the aerobic phase length: a simulation study. Water Science and Technology, 2006, 53, 253-262.	2.5	5
122	The effect of packing hydrophilization on bacterial attachment and the relationship with the performance of biotrickling filters. Biotechnology and Bioengineering, 2009, 103, 1060-1067.	3.3	5
123	Technical and economic analysis of real anaerobic digester centrate by means of partial nitrification and sustainable heterotrophic denitrification. Water Science and Technology, 2013, 67, 2807-2813.	2.5	5
124	A hybrid supervisory system to support WWTP operation: implementation and validation. Water Science and Technology, 2002, 45, 289-97.	2.5	5
125	Improving the Biological Nitrogen Removal Process in Pharmaceutical Wastewater Treatment Plants: A Case Study. Environmental Technology (United Kingdom), 2004, 25, 423-431.	2.2	4
126	Coupling dissolved oxygen microsensors measurements and heterogeneous respirometry for monitoring and modeling microbial activity within sulfide-oxidizing biofilms. Chemical Engineering Journal, 2020, 400, 125846.	12.7	4

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127	Assay of ?-galactosidase activity by Flow Injection Analysis (FIA). Biotechnology Letters, 1991, 5, 389.	0.5	3
128	THE SPLIT OF THE LIQUID PHASE IN DROPS AND FILM IN AN EJECTOR-VENTURI SCRUBBER. Chemical Engineering Communications, 2004, 191, 398-413.	2.6	3
129	Titrimetry as a tool for the on-line monitoring of biological activity in a desulfurizing biotrickling filter under aerobic conditions. Chemical Engineering Research and Design, 2019, 124, 151-157.	5.6	3
130	Dai-depur architecture: Distributed agents for real-time wwtp supervision and control. Annual Review in Automatic Programming, 1994, 19, 147-152.	0.2	2
131	Providing wastewater treatment plants with predictive knowledge based on transition networks. , 0, , .		2
132	Model-based Design of a Control Strategy for Optimal Start-up of a High-Strength Nitrification System. Environmental Technology (United Kingdom), 2007, 28, 185-194.	2.2	2
133	Evaluation of sludge-based carbon as packing material in biofiltration in comparison to classic materials. Water Practice and Technology, 2009, 4, .	2.0	2
134	Model-based study of nitrite accumulation with OUR control in two continuous nitrifying activated sludge configurations. Water Science and Technology, 2009, 60, 2685-2693.	2.5	2
135	Mechanistic modeling of glycerol fermenting and sulfate-reducing processes by granular sludge under sulfidogenic conditions. Journal of Environmental Chemical Engineering, 2022, , 107937.	6.7	1
136	Real Time Supervision of Wastewater Treatment Plants: A Distributed AI Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1994, 27, 188-193.	0.4	0
137	Development and validation of a dynamic complex model for ammonia removal by gas-phase biofiltration. Computer Aided Chemical Engineering, 2005, , 337-342.	0.5	0
138	Simulation of a novel strategy for improving a biological phosphorus removal system start-up. Computer Aided Chemical Engineering, 2005, 20, 475-480.	0.5	0
139	REAL TIME SUPERVISION OF WASTEWATER TREATMENT PLANTS: A DISTRIBUTED AI APPROACH. , 1994, , 163-168.		0
140	DAI-DEPUR ARCHITECTURE: DISTRIBUTED AGENTS FOR REAL-TIME WWTP SUPERVISION AND CONTROL. , 1995, , 147-152.		0