

# Emine Ubay AokgÄr

## List of Publications by Year in descending order

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129  
papers

2,783  
citations

172457

29  
h-index

223800

46  
g-index

130  
all docs

130  
docs citations

130  
times ranked

2161  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of low dissolved oxygen on simultaneous nitrification and denitrification in a membrane bioreactor treating black water. <i>Bioresource Technology</i> , 2011, 102, 4333-4340.	9.6	127
2	Characterization and COD fractionation of domestic wastewaters. <i>Environmental Pollution</i> , 1997, 95, 191-204.	7.5	112
3	Respirometric analysis of activated sludge behaviourâ€”I. Assessment of the readily biodegradable substrate. <i>Water Research</i> , 1998, 32, 461-475.	11.3	109
4	COD Fractionation in Wastewater Characterizationâ€”The State of the Art. <i>Journal of Chemical Technology and Biotechnology</i> , 1997, 68, 283-293.	3.2	105
5	Metabolic model for acetate uptake by a mixed culture of phosphate- and glycogen-accumulating organisms under anaerobic conditions. <i>Biotechnology and Bioengineering</i> , 2003, 84, 359-373.	3.3	85
6	Respirometric analysis of activated sludge behaviourâ€”II. Heterotrophic growth under aerobic and anoxic conditions. <i>Water Research</i> , 1998, 32, 476-488.	11.3	80
7	Validity of Monod kinetics at different sludge ages â€” Peptone biodegradation under aerobic conditions. <i>Bioresource Technology</i> , 2009, 100, 5678-5686.	9.6	70
8	Acute impact of erythromycin and tetracycline on the kinetics of nitrification and organic carbon removal in mixed microbial culture. <i>Bioresource Technology</i> , 2013, 144, 410-419.	9.6	69
9	Influence of pH and temperature on soluble substrate generation with primary sludge fermentation. <i>Bioresource Technology</i> , 2009, 100, 380-386.	9.6	66
10	Evaluation of the performance of the Tyson Foods wastewater treatment plant for nitrogen removal. <i>Water Science and Technology</i> , 2005, 51, 159-166.	2.5	62
11	Effect of sludge age on simultaneous nitrification and denitrification in membrane bioreactor. <i>Bioresource Technology</i> , 2011, 102, 6665-6672.	9.6	61
12	Dual hydrolysis model of the slowly biodegradable substrate in activated sludge systems. <i>Biotechnology Letters</i> , 1998, 12, 737-741.	0.5	60
13	Unified Basis for the Respirometric Evaluation of Inhibition for Activated Sludge. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2006, 41, 1763-1780.	1.7	57
14	Biological treatability of raw and ozonated penicillin formulation effluent. <i>Journal of Hazardous Materials</i> , 2004, 116, 159-166.	12.4	53
15	Chronic impact of tetracycline on nitrification kinetics and the activity of enriched nitrifying microbial culture. <i>Water Research</i> , 2015, 72, 227-238.	11.3	50
16	Characterization and Modeling of Activated Sludge for Tannery Wastewater. <i>Water Environment Research</i> , 1999, 71, 50-63.	2.7	48
17	Accumulation of polyhydroxyalkanoates by <i>Microlunatus phosphovorus</i> under various growth conditions. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006, 33, 215-220.	3.0	47
18	COD fractionation and biodegradation kinetics of segregated domestic wastewater: black and grey water fractions. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 1241-1249.	3.2	46

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19	Critical appraisal of respirometric methods for metal inhibition on activated sludge. <i>Journal of Hazardous Materials</i> , 2007, 139, 332-339.	12.4	45
20	Chronic impact of sulfamethoxazole on the metabolic activity and composition of enriched nitrifying microbial culture. <i>Water Research</i> , 2016, 100, 546-555.	11.3	43
21	Modelling of activated sludge for textile wastewaters. <i>Water Science and Technology</i> , 1998, 38, 9.	2.5	42
22	Respirometric evaluation of a mixture of organic chemicals with different biodegradation kinetics. <i>Journal of Hazardous Materials</i> , 2009, 161, 35-41.	12.4	40
23	Characteristics of mixed microbial culture at different sludge ages: Effect on variable kinetics for substrate utilization. <i>Bioresource Technology</i> , 2012, 126, 274-282.	9.6	36
24	Biodegradation characteristics and size fractionation of landfill leachate for integrated membrane treatment. <i>Journal of Hazardous Materials</i> , 2013, 260, 825-832.	12.4	36
25	Biodegradation kinetics of peptone and 2,6-dihydroxybenzoic acid by acclimated dual microbial culture. <i>Bioresource Technology</i> , 2011, 102, 567-575.	9.6	35
26	Long-term study on the impact of temperature on enhanced biological phosphorus and nitrogen removal in membrane bioreactor. <i>Water Research</i> , 2015, 84, 8-17.	11.3	34
27	Respirometric evaluation of the biodegradability of confectionary wastewaters. <i>Water Science and Technology</i> , 1995, 32, 11.	2.5	33
28	Is ammonification the rate limiting step for nitrification kinetics?. <i>Bioresource Technology</i> , 2012, 114, 117-125.	9.6	32
29	Experimental basis for the hydrolysis of slowly biodegradable substrate in different wastewaters. <i>Water Science and Technology</i> , 1999, 39, 87-95.	2.5	31
30	Modelling the effect of biomass induced oxygen transfer limitations on the nitrogen removal performance of membrane bioreactor. <i>Journal of Membrane Science</i> , 2011, 368, 54-63.	8.2	30
31	Effect of dewatered sludge microwave pretreatment temperature and duration on net energy generation and biosolids quality from anaerobic digestion. <i>Energy</i> , 2019, 168, 782-795.	8.8	29
32	Respirometric assessment of substrate binding by antibiotics in peptone biodegradation. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011, 46, 1588-1597.	1.7	28
33	Effect of sludge age on population dynamics and acetate utilization kinetics under aerobic conditions. <i>Bioresource Technology</i> , 2013, 143, 68-75.	9.6	28
34	Kinetic characterization of acetate utilization and response of microbial population in super fast membrane bioreactor. <i>Journal of Membrane Science</i> , 2014, 455, 392-404.	8.2	28
35	The effect of mixing pharmaceutical and tannery wastewaters on the biodegradation characteristics of the effluents. <i>Journal of Hazardous Materials</i> , 2008, 156, 292-299.	12.4	27
36	Pyrosequencing reveals the inhibitory impact of chronic exposure to erythromycin on activated sludge bacterial community structure. <i>Biochemical Engineering Journal</i> , 2014, 90, 195-205.	3.6	27

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37	Modification and expansion of a pure oxygen WWTP for biological nutrient removal (BNR). <i>Water Science and Technology</i> , 2001, 44, 167-167.	2.5	24
38	Kinetic and microbial response of activated sludge community to acute and chronic exposure to tetracycline. <i>Journal of Hazardous Materials</i> , 2019, 367, 418-426.	12.4	24
39	Modeling acute impact of sulfamethoxazole on the utilization of simple and complex substrates by fast growing microbial culture. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 603-615.	3.2	22
40	Simultaneous nitrate and perchlorate removal from groundwater by heterotrophic-autotrophic sequential system. <i>International Biodeterioration and Biodegradation</i> , 2017, 116, 83-90.	3.9	22
41	Integrated photochemical and biological treatment of a commercial textile surfactant: Process optimization, process kinetics and COD fractionation. <i>Journal of Hazardous Materials</i> , 2007, 146, 453-458.	12.4	21
42	Respirometric evaluation of biodegradation characteristics of dairy wastewater for organic carbon removal. <i>Environmental Technology (United Kingdom)</i> , 2009, 30, 1169-1176.	2.2	21
43	Is the chronic impact of sulfamethoxazole different for slow growing culture? The effect of culture history. <i>Bioresource Technology</i> , 2016, 206, 65-76.	9.6	20
44	Simultaneous nitrate and perchlorate reduction using sulfur-based autotrophic and heterotrophic denitrifying processes. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1471-1477.	3.2	19
45	The effect of temperature and sludge age on COD removal and nitrification in a moving bed sequencing batch biofilm reactor. <i>Water Science and Technology</i> , 2005, 51, 95-103.	2.5	18
46	The effect of substrate on the composition of polyhydroxyalkanoates in enhanced biological phosphorus removal. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 295-303.	3.2	18
47	Impact of paint shop decanter effluents on biological treatability of automotive industry wastewater. <i>Journal of Hazardous Materials</i> , 2017, 330, 61-67.	12.4	18
48	Evaluation of the performance of the Tyson Foods wastewater treatment plant for nitrogen removal. <i>Water Science and Technology</i> , 2005, 51, 159-66.	2.5	18
49	Comparative Analysis of Bacterial and Archaeal Community Structure in Microwave Pretreated Thermophilic and Mesophilic Anaerobic Digesters Utilizing Mixed Sludge under Organic Overloading. <i>Water (Switzerland)</i> , 2020, 12, 887.	2.7	17
50	Respirometric Assessment of Primary Sludge Fermentation Products. <i>Journal of Environmental Engineering, ASCE</i> , 2006, 132, 68-74.	1.4	16
51	Are standard wastewater treatment plant design methods suitable for any municipal wastewater?. <i>Water Science and Technology</i> , 2012, 66, 328-335.	2.5	16
52	Dynamic modeling of nutrient removal by a MBR operated at elevated temperatures. <i>Water Research</i> , 2017, 123, 420-428.	11.3	16
53	Experimental basis for the hydrolysis of slowly biodegradable substrate in different wastewaters. <i>Water Science and Technology</i> , 1999, 39, 87.	2.5	15
54	Fate of 2,6-dihydroxybenzoic acid and its inhibitory impact on the biodegradation of peptone under aerobic conditions. <i>Bioresource Technology</i> , 2010, 101, 2665-2671.	9.6	15

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55	Chronic impact of sulfamethoxazole on acetate utilization kinetics and population dynamics of fast growing microbial culture. <i>Bioresource Technology</i> , 2014, 166, 219-228.	9.6	15
56	Effect of high loading on substrate utilization kinetics and microbial community structure in super fast submerged membrane bioreactor. <i>Bioresource Technology</i> , 2014, 159, 118-127.	9.6	15
57	Modeling sequential ammonia oxidation kinetics in enriched nitrifying microbial culture. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 72-79.	3.2	15
58	Occurrence and fate of antimicrobial triclocarban and its transformation products in municipal sludge during advanced anaerobic digestion using microwave pretreatment. <i>Science of the Total Environment</i> , 2020, 705, 135862.	8.0	15
59	The effect of chemical settling on the kinetics and design of activated sludge for tannery wastewaters. <i>Water Science and Technology</i> , 1998, 38, 355.	2.5	14
60	Potential of ultrafiltration for organic matter removal in the polymer industry effluent based on particle size distribution analysis. <i>Environmental Science and Pollution Research</i> , 2013, 20, 340-350.	5.3	14
61	Effect of primary sludge fermentation products on mass balance for biological treatment. <i>Water Science and Technology</i> , 2005, 51, 105-114.	2.5	13
62	Particle size distribution based evaluation of biodegradation and treatability for leachate from organic waste. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 1364-1373.	3.2	13
63	Effect of Perozonation on Biodegradability and Toxicity of a Penicillin Formulation Effluent. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2006, 41, 1887-1897.	1.7	12
64	Response of mixed microbial culture to 2,6-dihydroxybenzoic acid and peptone mixture at low sludge age—effect of culture history. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2010, 45, 875-882.	1.7	12
65	Heterotrophic—autotrophic sequential system for reductive nitrate and perchlorate removal. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 183-191.	2.2	12
66	Enhancement of nutrient removal performance of activated sludge with a novel hybrid biofilm process. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 379-390.	3.4	12
67	Comparison of Energy Efficiencies for Advanced Anaerobic Digestion, Incineration, and Gasification Processes in Municipal Sludge Management. <i>Journal of Residuals Science and Technology</i> , 2016, 13, 57-64.	0.6	12
68	Is the naphthalene sulfonate H-acid biodegradable in mixed microbial cultures under aerobic conditions?. <i>Bioresource Technology</i> , 2011, 102, 5589-5595.	9.6	11
69	A novel process maximizing energy conservation potential of biological treatment: Super fast membrane bioreactor. <i>Journal of Membrane Science</i> , 2018, 545, 337-347.	8.2	11
70	Degree of Sulfate-Reducing Activities on COD Removal in Various Reactor Configurations in Anaerobic Glucose and Acetate-fed Reactors. <i>Clean - Soil, Air, Water</i> , 2007, 35, 178-182.	1.1	10
71	Evaluation of Municipal and Industrial Wastewater Treatment Sludge Stabilization in Istanbul. <i>Clean - Soil, Air, Water</i> , 2007, 35, 558-564.	1.1	10
72	Modeling of simultaneous growth and storage kinetics variation under unsteady feast conditions for aerobic heterotrophic biomass. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 1445-1454.	3.4	10

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73	Acute impact of erythromycin on substrate utilization by activated sludge: effect of sludge age. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1091-1102.	3.2	10
74	Impact of the Anoxic Volume Ratio on the Dynamics of Biological Nitrogen Removal Under Extended Aeration Conditions. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	10
75	Evaluation of nitrate and perchlorate reduction using sulfur-based autotrophic and mixotrophic denitrifying processes. <i>Water Science and Technology: Water Supply</i> , 2016, 16, 208-218.	2.1	10
76	Determination of the potential of pickle wastewater as feedstock for biopolymer production. <i>Water Science and Technology</i> , 2020, 81, 21-28.	2.5	10
77	Modelling biological treatability for meat processing effluent. <i>Water Science and Technology</i> , 1995, 32, 43.	2.5	9
78	Technological aspects of wastewater management in coastal tourist areas. <i>Water Science and Technology</i> , 1999, 39, 177.	2.5	9
79	Biodegradation kinetics of the soluble slowly biodegradable substrate in polyamide carpet finishing wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 34-40.	3.2	9
80	Chronic impact of sulfamethoxazole: how does process kinetics relate to metabolic activity and composition of enriched nitrifying microbial culture?. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1722-1732.	3.2	9
81	Occurrence of the Persistent Antimicrobial Triclosan in Microwave Pretreated and Anaerobically Digested Municipal Sludges under Various Process Conditions. <i>Molecules</i> , 2020, 25, 310.	3.8	9
82	Performance and economics of BNR Plants in the Chesapeake Bay Watershed, USA. <i>Water Science and Technology</i> , 2000, 41, 21-28.	2.5	9
83	Effect of photochemical pre-treatment on COD fractionation of a non-ionic textile surfactant. <i>Water Science and Technology</i> , 2007, 55, 155-163.	2.5	9
84	Pollution profile and biodegradation characteristics of furfural processing effluents. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 1151-1162.	2.2	8
85	Effect of stabilization on biomass activity. <i>Journal of Biotechnology</i> , 2012, 157, 547-553.	3.8	8
86	Acute impact of tetracycline and erythromycin on the storage mechanism of polyhydroxyalkanoates. <i>Biochemical Engineering Journal</i> , 2014, 91, 283-289.	3.6	8
87	Comparative Assessment of Sludge Pre-treatment Techniques to Enhance Sludge Dewaterability and Biogas Production. <i>Clean - Soil, Air, Water</i> , 2018, 46, 1700569.	1.1	8
88	A comprehensive evaluation of process kinetics: A plant-wide approach for nutrient removal and biogas production. <i>Water Research</i> , 2022, 217, 118410.	11.3	8
89	Biological treatability of poultry processing plant effluent - a case study. <i>Water Science and Technology</i> , 1999, 40, 323.	2.5	7
90	Biological treatability of raw and ozonated synthetic penicillin formulation effluent. <i>Water Science and Technology</i> , 2005, 52, 89-96.	2.5	7

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91	Substrate storage concepts in modeling activated sludge systems for tannery wastewaters. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007, 42, 2159-2166.	1.7	7
92	Biodegradation kinetics of 2,6-dihydroxybenzoic acid and peptone mixture by acclimated microbial culture at low sludge age. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2010, 45, 1885-1891.	1.7	7
93	Effect of extended aeration on the fate of particulate components in sludge stabilization. <i>Bioresource Technology</i> , 2014, 174, 88-94.	9.6	7
94	Scientific basis of dissolved organic carbon limitation for landfilling of municipal treatment sludge " Is it attainable and justifiable?. <i>Waste Management</i> , 2014, 34, 1657-1666.	7.4	7
95	Modeling the fate of particulate components in aerobic sludge stabilization " Performance limitations. <i>Bioresource Technology</i> , 2014, 164, 315-322.	9.6	7
96	Performance and microbial behavior of submerged membrane bioreactor at extremely low sludge ages. <i>Desalination and Water Treatment</i> , 2015, 56, 862-874.	1.0	7
97	Biodegradation of pretreated olive mill effluent in mixture with a domestic sewage or compatible wastewater stream. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 757-766.	3.2	7
98	Technological aspects of wastewater management in coastal tourist areas. <i>Water Science and Technology</i> , 1999, 39, 177-184.	2.5	7
99	The Effects of Diquat Dibromide on Biological Wastewater Treatment Plants. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2003, 38, 2453-2463.	1.7	6
100	Respirometric assessment of biodegradation for acrylic fibre-based carpet finishing wastewaters. <i>Water Science and Technology</i> , 2007, 55, 99-106.	2.5	6
101	Respirometric evaluation and modeling of the impact of continuous benzo[ <i>a</i> ]anthracene feeding on activated sludge. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2621-2629.	3.2	6
102	Role of experimental support as an essential component of sustainable design of the activated sludge process for nitrogen removal. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 2253-2271.	3.2	6
103	Experimental Assessment of Optimum Operation Strategy for Large Industrial Wastewater Treatment Plants" A Case Study. <i>Environmental Engineering Science</i> , 2002, 19, 47-58.	1.6	5
104	Effects of pH and Substrate on the Competition Between Glycogen and Phosphorus Accumulating Organisms. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2004, 39, 1695-1704.	1.7	5
105	System Performance in UASB Reactors Receiving Increasing Levels of Sulfate. <i>Clean - Soil, Air, Water</i> , 2007, 35, 275-281.	1.1	5
106	Extent of endogenous decay and microbial activity in aerobic stabilization of biological sludge. <i>Desalination and Water Treatment</i> , 2014, 52, 6356-6362.	1.0	5
107	Effect of acetate to biomass ratio on simultaneous polyhydroxybutyrate generation and direct microbial growth in fast growing microbial culture. <i>Bioresource Technology</i> , 2014, 171, 314-322.	9.6	5
108	Impact of aerobic stabilization on the characteristics of treatment sludge in the leather tanning industry. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 719-726.	2.2	5



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109	Anatomy of superfast activated sludge process with gravity settling for biodegradation and energy recovery potential –a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 1086-1098.	3.2	5
110	Integrated watershed management efforts: case study from Melen Watershed experiencing interbasin water transfer. <i>Water Science and Technology: Water Supply</i> , 2013, 13, 1272-1280.	2.1	4
111	Acute impact of tetracycline on the utilization of acetate by activated sludge sustained under different growth conditions. <i>Bioresource Technology</i> , 2015, 198, 157-164.	9.6	4
112	Microbial endogenous response to acute inhibitory impact of antibiotics. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1626-1637.	2.2	4
113	Kinetic evaluation of nitrification performance in an immobilized cell membrane bioreactor. <i>Water Science and Technology</i> , 2016, 73, 2904-2912.	2.5	3
114	Membrane integrated process for advanced treatment of high strength Opium Alkaloid wastewaters. <i>Water Science and Technology</i> , 2018, 77, 1899-1908.	2.5	3
115	Comprehensive evaluation of starter culture impact on the bioreactor performance and microbial kinetics. <i>Biochemical Engineering Journal</i> , 2022, 177, 108233.	3.6	3
116	Co-metabolism of nonylphenol ethoxylate in sequencing batch reactor under aerobic conditions. <i>Biodegradation</i> , 2022, 33, 181-194.	3.0	3
117	Acute effect of benzo[a]anthracene on the biodegradation of peptone under aerobic conditions. <i>Environmental Science and Pollution Research</i> , 2012, 19, 3412-3420.	5.3	2
118	Effect of eco-friendly production technologies on wastewater characterization and treatment plant performance. <i>Desalination and Water Treatment</i> , 0, , 1-10.	1.0	2
119	Insights into the acute effect of anti-inflammatory drugs on activated sludge systems with high solids retention time. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 3920-3931.	2.2	2
120	Anatomy of the organic carbon in an industrial wastewater: Implications of particle size distribution, respirometry and process modelling. <i>Chemical Engineering Research and Design</i> , 2021, 146, 257-266.	5.6	2
121	Impact of ultrasonic pre-treatment on domestic sludge digestion performance and microbial community dynamics. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 931-943.	2.2	1
122	Effect of primary sludge fermentation products on mass balance for biological treatment. <i>Water Science and Technology</i> , 2005, 51, 105-14.	2.5	1
123	Alternatives for upgrading the Wilderness Wastewater Treatment Plant for biological nutrient removal. <i>Water Science and Technology</i> , 2004, 48, 453-462.	2.5	0
124	Effect of aerobic stabilization on biomass activity. <i>Journal of Biotechnology</i> , 2010, 150, 35-35.	3.8	0
125	Biodegradation of a Tannery and Chemical Plant Producing Asetilsalisilikat Wastewater Mixture. , 2010, , 1117-1125.		0
126	Erratum to “Effect of aerobic stabilization on biomass activity” [J. Biotechnol. 150S (2010) S35]. <i>Journal of Biotechnology</i> , 2012, 160, 269.	3.8	0



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127	Respirometric Evaluation of Strong Wastewater Activated Sludge Treatment for a Complex Chemical Industry. , 2010, , 1139-1148.		0
128	Polyhydroxyalkanoate production from food industry residual streams using mixed microbial cultures. , 2022, , 265-284.		0
129	Biological treatability of raw and ozonated synthetic penicillin formulation effluent. Water Science and Technology, 2005, 52, 89-96.	2.5	0