

# SÃ©rgio Francisco Aquino

## List of Publications by Year in descending order

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108  
papers

3,177  
citations

101543

36  
h-index

175258

52  
g-index

110  
all docs

110  
docs citations

110  
times ranked

3808  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soluble microbial products formation in anaerobic chemostats in the presence of toxic compounds. <i>Water Research</i> , 2004, 38, 255-266.	11.3	280
2	Quantification of dissolved methane in UASB reactors treating domestic wastewater under different operating conditions. <i>Water Science and Technology</i> , 2011, 64, 2259-2264.	2.5	138
3	Activated carbons from agricultural byproducts (pine tree and coconut shell), coal, and carbon nanotubes as adsorbents for removal of sulfamethoxazole from spiked aqueous solutions: Kinetic and thermodynamic studies. <i>Industrial Crops and Products</i> , 2015, 74, 111-121.	5.2	115
4	Integrated model of the production of soluble microbial products (SMP) and extracellular polymeric substances (EPS) in anaerobic chemostats during transient conditions. <i>Biochemical Engineering Journal</i> , 2008, 38, 138-146.	3.6	114
5	Characterization of dissolved compounds in submerged anaerobic membrane bioreactors (SAMBRs). <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 1894-1904.	3.2	86
6	Photolysis and photocatalysis of ibuprofen in aqueous medium: characterization of by-products via liquid chromatography coupled to high-resolution mass spectrometry and assessment of their toxicities against <i>Artemia Salina</i> . <i>Journal of Mass Spectrometry</i> , 2014, 49, 145-153.	1.6	83
7	Metodologias para determinação da atividade metanogênica específica (AME) em lodos anaeróbios. <i>Engenharia Sanitaria E Ambiental</i> , 2007, 12, 192-201.	0.5	72
8	Behaviour of pharmaceuticals and endocrine disrupting chemicals in simplified sewage treatment systems. <i>Journal of Environmental Management</i> , 2013, 128, 718-726.	7.8	69
9	Optimization of sugarcane bagasse autohydrolysis for methane production from hemicellulose hydrolyzates in a biorefinery concept. <i>Bioresource Technology</i> , 2016, 200, 137-146.	9.6	69
10	Adsorption of diclofenac on a magnetic adsorbent based on maghemite: experimental and theoretical studies. <i>New Journal of Chemistry</i> , 2018, 42, 437-449.	2.8	63
11	Influence of different thermal pretreatments and inoculum selection on the biomethanation of sugarcane bagasse by solid-state anaerobic digestion: A kinetic analysis. <i>Industrial Crops and Products</i> , 2018, 111, 684-693.	5.2	63
12	Occurrence of pharmaceuticals and endocrine disruptors in raw sewage and their behavior in UASB reactors operated at different hydraulic retention times. <i>Water Science and Technology</i> , 2012, 66, 2562-2569.	2.5	61
13	Bioavailability and Toxicity of Metal Nutrients during Anaerobic Digestion. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 28-35.	1.4	60
14	Remoção de fármacos e desreguladores endócrinos em estações de tratamento de esgoto: revisão da literatura. <i>Engenharia Sanitaria E Ambiental</i> , 2013, 18, 187-204.	0.5	57
15	Production of Soluble Microbial Products (SMP) in Anaerobic Chemostats Under Nutrient Deficiency. <i>Journal of Environmental Engineering, ASCE</i> , 2003, 129, 1007-1014.	1.4	56
16	Determination of endocrine-disrupting compounds in waters from Rio das Velhas, Brazil, by liquid chromatography/high resolution mass spectrometry (ESI-LC-IT-TOF/MS). <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 1409-1417.	2.2	56
17	Evaluation of hydrogen and methane production from sugarcane bagasse hemicellulose hydrolyzates by two-stage anaerobic digestion process. <i>Bioresource Technology</i> , 2016, 218, 436-446.	9.6	56
18	Anaerobic co-digestion of coffee husks and microalgal biomass after thermal hydrolysis. <i>Bioresource Technology</i> , 2018, 253, 49-54.	9.6	55

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19	Degradation of a model azo dye in submerged anaerobic membrane bioreactor (SAMBR) operated with powdered activated carbon (PAC). <i>Journal of Environmental Management</i> , 2013, 128, 462-470.	7.8	54
20	Occurrence of endocrine disrupting compounds in water sources of Belo Horizonte Metropolitan Area, Brazil. <i>Environmental Technology (United Kingdom)</i> , 2009, 30, 1041-1049.	2.2	52
21	Implications of volatile fatty acid profile on the metabolic pathway during continuous sulfate reduction. <i>Journal of Environmental Management</i> , 2012, 103, 15-23.	7.8	52
22	EPS and SMP dynamics at different heights of a submerged anaerobic membrane bioreactor (SAMBR). <i>Process Biochemistry</i> , 2014, 49, 2241-2248.	3.7	50
23	Anaerobic digestion of hemicellulose hydrolysate produced after hydrothermal pretreatment of sugarcane bagasse in UASB reactor. <i>Science of the Total Environment</i> , 2017, 584-585, 1108-1113.	8.0	48
24	Two-stage fractionation of sugarcane bagasse by autohydrolysis and glycerol organosolv delignification in a lignocellulosic biorefinery concept. <i>Industrial Crops and Products</i> , 2017, 108, 431-441.	5.2	48
25	Can high rate algal ponds be used as post-treatment of UASB reactors to remove micropollutants?. <i>Chemosphere</i> , 2020, 248, 125969.	8.2	48
26	Ac�mulo de �cidos graxos vol�teis (AGVs) em reatores anaer�bios sob estresse: causas e estrat�gias de controle. <i>Engenharia Sanitaria E Ambiental</i> , 2005, 10, 152-161.	0.5	47
27	Methane and hydrogen production from anaerobic digestion of soluble fraction obtained by sugarcane bagasse ozonation. <i>Industrial Crops and Products</i> , 2017, 109, 288-299.	5.2	46
28	Steam explosion pretreatment improved the biomethanization of coffee husks. <i>Bioresource Technology</i> , 2017, 245, 66-72.	9.6	45
29	Production of biogas (methane and hydrogen) from anaerobic digestion of hemicellulosic hydrolysate generated in the oxidative pretreatment of coffee husks. <i>Bioresource Technology</i> , 2018, 263, 601-612.	9.6	45
30	Evaluation of soluble microbial products and aromatic amines accumulation during a combined anaerobic/aerobic treatment of a model azo dye. <i>Chemical Engineering Journal</i> , 2015, 259, 936-944.	12.7	44
31	Methane production by co-digestion of poultry manure and lignocellulosic biomass: Kinetic and energy assessment. <i>Bioresource Technology</i> , 2020, 300, 122588.	9.6	43
32	Reuse of microalgae grown in full-scale wastewater treatment ponds: Thermochemical pretreatment and biogas production. <i>Bioresource Technology</i> , 2016, 209, 305-312.	9.6	42
33	Photodegradation of bisphenol A in aqueous medium: Monitoring and identification of by�products by liquid chromatography coupled to high�resolution mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 987-994.	1.5	41
34	Use of anaerobic co-digestion as an alternative to add value to sugarcane biorefinery wastes. <i>Bioresource Technology</i> , 2019, 287, 121443.	9.6	41
35	Use of calcined layered double hydroxides for the removal of color and organic matter from textile effluents: kinetic, equilibrium and recycling studies. <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 19-26.	1.3	39
36	F�rmacos e desreguladores end�crinos em �guas brasileiras: ocorr�ncia e t�cnicas de remo��o. <i>Engenharia Sanitaria E Ambiental</i> , 2017, 22, 1043-1054.	0.5	38

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37	Anaerobic degradation of azo dye Drimaren blue HFRL in UASB reactor in the presence of yeast extract a source of carbon and redox mediator. <i>Biodegradation</i> , 2012, 23, 199-208.	3.0	37
38	Characterization of metformin by-products under photolysis, photocatalysis, ozonation and chlorination by high-performance liquid chromatography coupled to high-resolution mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 2360-2368.	1.5	37
39	Production and characterization of scum and its role in odour control in UASB reactors treating domestic wastewater. <i>Water Science and Technology</i> , 2006, 54, 201-208.	2.5	36
40	Use of submerged anaerobic membrane bioreactor (SAMBR) containing powdered activated carbon (PAC) for the treatment of textile effluents. <i>Water Science and Technology</i> , 2012, 65, 1540-1547.	2.5	34
41	Influence of incubation conditions on the specific methanogenic activity test. <i>Biodegradation</i> , 2010, 21, 411-424.	3.0	31
42	Chromatographic characterization of dissolved organics in effluents from two anaerobic reactors treating synthetic wastewater. <i>Water Science and Technology</i> , 2006, 54, 193-198.	2.5	27
43	Soluble microbial product (SMP) characterization in bench-scale aerobic and anaerobic CSTRs under different operational conditions. <i>Brazilian Journal of Chemical Engineering</i> , 2010, 27, 101-111.	1.3	27
44	Determination of nine pharmaceutical active compounds in surface waters from Paraopeba River Basin in Brazil by LTPE-HPLC-ESI-MS/MS. <i>Environmental Science and Pollution Research</i> , 2018, 25, 19962-19974.	5.3	26
45	Calcined Layered Double Hydroxides for Decolorization of Azo Dye Solutions: Equilibrium, Kinetics, and Recycling Studies. <i>Environmental Engineering Science</i> , 2012, 29, 685-692.	1.6	24
46	Occurrence of contaminants of emerging concern in surface waters from Paraopeba River Basin in Brazil: seasonal changes and risk assessment. <i>Environmental Science and Pollution Research</i> , 2021, 28, 30242-30254.	5.3	23
47	A critical analysis of the alternative treatments applied to effluents from Brazilian textile industries. <i>Journal of Water Process Engineering</i> , 2021, 43, 102273.	5.6	23
48	Anaerobic-Aerobic Combined System for the Biological Treatment of Azo Dye Solution using Residual Yeast. <i>Water Environment Research</i> , 2018, 90, 729-737.	2.7	21
49	METHODOLOGIES FOR DETERMINING THE BIOAVAILABILITY AND BIODEGRADABILITY OF SLUDGES. <i>Environmental Technology (United Kingdom)</i> , 2008, 29, 855-862.	2.2	19
50	Distribution of genetic elements associated with antibiotic resistance in treated and untreated animal husbandry waste and wastewater. <i>Environmental Science and Pollution Research</i> , 2021, 28, 26380-26403.	5.3	19
51	INFLUENCE OF THE APPLIED ORGANIC LOAD (OLR) ON TEXTILE WASTEWATER TREATMENT USING SUBMERGED ANAEROBIC MEMBRANE BIOREACTORS (SAMBR) IN THE PRESENCE OF REDOX MEDIATOR AND POWDERED ACTIVATED CARBON (PAC). <i>Brazilian Journal of Chemical Engineering</i> , 2016, 33, 817-825.	1.3	17
52	Removal of Zn <sup>2+</sup> from Electroplating Wastewater Using Modified Wood Sawdust and Sugarcane Bagasse. <i>Journal of Environmental Engineering, ASCE</i> , 2009, 135, 341-350.	1.4	16
53	Quantification of the Inert Chemical Oxygen Demand of Raw Wastewater and Evaluation of Soluble Microbial Product Production in Demo-scale Upflow Anaerobic Sludge Blanket Reactors under Different Operational Conditions. <i>Water Environment Research</i> , 2009, 81, 608-616.	2.7	16
54	Application of cellulose-immobilized riboflavin as a redox mediator for anaerobic degradation of a model azo dye Remazol Golden Yellow RNL. <i>Industrial Crops and Products</i> , 2015, 65, 454-462.	5.2	16

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55	Occurrence of Pharmaceuticals and Endocrine Disrupting Compounds in Brazilian Water and the Risks They May Represent to Human Health. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 11765.	2.6	16
56	Validao de mtodo de cromatografia lquida para a determinao de sete cidos graxos volteis intermedirios da digesto anaerbia. <i>Engenharia Sanitaria E Ambiental</i> , 2013, 18, 295-302.	0.5	15
57	Use of aqueous two-phase PEG-salt systems for the removal of anionic surfactant from effluents. <i>Journal of Environmental Management</i> , 2017, 198, 43-49.	7.8	15
58	Use of Ferrites Encapsulated with Titanium Dioxide for Photodegradation of Azo Dyes and Color Removal of Textile Effluents. <i>Environmental Engineering Science</i> , 2010, 27, 1049-1059.	1.6	14
59	Biogas production by anaerobic co-digestion of sugarcane biorefinery byproducts: Comparative analyses of performance and microbial community in novel single-and two-stage systems. <i>Bioresource Technology</i> , 2022, 354, 127185.	9.6	14
60	Characterization of Landfill Leachates by Molecular Size Distribution, Biodegradability, and Inert Chemical Oxygen Demand. <i>Water Environment Research</i> , 2009, 81, 499-505.	2.7	13
61	Microbial dynamics during azo dye degradation in a UASB reactor supplied with yeast extract. <i>Brazilian Journal of Microbiology</i> , 2014, 45, 1153-1160.	2.0	13
62	ASSESSMENT OF OZONE AS A PRETREATMENT TO IMPROVE ANAEROBIC DIGESTION OF VINASSE. <i>Brazilian Journal of Chemical Engineering</i> , 2016, 33, 279-285.	1.3	12
63	Caracterizao e biodegradabilidade aerbia e anaerbia dos esgotos produzidos em campus universitrio. <i>Engenharia Sanitaria E Ambiental</i> , 2008, 13, 271-277.	0.5	11
64	Integrated production of second-generation ethanol and biogas from sugarcane bagasse pretreated with ozone. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 809-825.	4.6	11
65	COMPARISON OF UASB AND FLUIDIZED-BED REACTORS FOR SULFATE REDUCTION. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 59-71.	1.3	10
66	Comparison between two forms of granular activated carbon for the removal of pharmaceuticals from different waters. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 1334-1345.	2.2	10
67	Ocorrncia de frmacos e desreguladores endcrinos em esgoto bruto e tratado na cidade de Belo Horizonte (MG). <i>Engenharia Sanitaria E Ambiental</i> , 2018, 23, 1199-1211.	0.5	10
68	Occurrence and removal of drugs and endocrine disruptors in the Bolonha Water Treatment Plant in Belm/PA (Brazil). <i>Environmental Monitoring and Assessment</i> , 2021, 193, 246.	2.7	10
69	Caracterizao de contaminantes presentes em sistemas de tratamento de esgotos, por cromatografia lquida acoplada  espectrometria de massas tandem em alta resoluo. <i>Qumica Nova</i> , 2010, 33, 734-738.	0.3	9
70	Removal of Pharmaceuticals and Endocrine Disruptor Compounds from Natural Waters by Clarification Associated with Powdered Activated Carbon. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	9
71	EVALUATING ARSENIC AND MANGANESE REMOVAL FROM WATER BY CHLORINE OXIDATION FOLLOWED BY CLARIFICATION. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 409-419.	1.3	9
72	Removal of Estradiol from Water with a Hybrid MIP-TiO2 Catalytic Adsorbent. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	9

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73	Preliminary assessment of antimicrobial activity and acute toxicity of norfloxacin chlorination by-product mixture. <i>Environmental Science and Pollution Research</i> , 2021, 28, 3828-3836.	5.3	9
74	Characterisation of captopril photolysis and photocatalysis by-products in water by direct infusion, electrospray ionisation, high-resolution mass spectrometry and the assessment of their toxicities. <i>International Journal of Environmental Analytical Chemistry</i> , 2017, 97, 42-55.	3.3	8
75	Behavior of Micropollutants in Polishing Units that Combine Sorption and Biodegradation Mechanisms to Improve the Quality of Activated Sludge Effluent. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	2.4	8
76	Avalia�o da biodegradabilidade anaer�bia de lixiviados de aterro sanit�rios. <i>Engenharia Sanitaria E Ambiental</i> , 2008, 13, 38-45.	0.5	7
77	Conceptual analysis of the UASB/polishing pond system regarding the removal of surfactants, micropollutants and control of gaseous emissions. <i>Water Science and Technology</i> , 2010, 61, 1211-1219.	2.5	7
78	Influence of synthesis conditions on the production of molecularly imprinted polymers for the selective recovery of isovaleric acid from anaerobic effluents. <i>Polymer International</i> , 2019, 68, 428-438.	3.1	7
79	Uso de extrato de levedura como fonte de carbono e de mediadores redox, para a degrada�o anaer�bia de corante azo. <i>Engenharia Sanitaria E Ambiental</i> , 2009, 14, 559-568.	0.5	6
80	Caracteriza�o e tratabilidade biol�gica dos efluentes l�quidos gerados em cabines de pintura de uma ind�stria moveleira. <i>Engenharia Sanitaria E Ambiental</i> , 2010, 15, 357-366.	0.5	6
81	Remo�o de microcistina-LR de �guas eutrofizadas por clarifica�o e filtra�o seguidas de adsor�o em carv�o ativado granular. <i>Engenharia Sanitaria E Ambiental</i> , 2015, 20, 603-612.	0.5	6
82	Experimental and theoretical studies of solvent polarity influence on the preparation of molecularly imprinted polymers for the removal of estradiol from water. <i>New Journal of Chemistry</i> , 2019, 43, 1775-1784.	2.8	6
83	Tylosin in anaerobic reactors: degradation kinetics, effects on methane production and on the microbial community. <i>Biodegradation</i> , 2022, 33, 283-300.	3.0	6
84	APPLICATION OF RESIDUAL YEAST AS A SOURCE OF REDOX MEDIATORS FOR THE ANAEROBIC DECOLORIZATION OF A MODEL AZO DYE. <i>Brazilian Journal of Chemical Engineering</i> , 2016, 33, 705-711.	1.3	5
85	Analysis of tylosin in poultry litter by HPLC-UV and HPLC-MS/MS after LTPE. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, , 1-18.	3.3	5
86	Biometaniza�o seca de res�duos s�lidos urbanos: estado da arte e an�lise cr�tica das principais tecnologias. <i>Engenharia Sanitaria E Ambiental</i> , 2012, 17, 295-304.	0.5	5
87	Evaluation of EPS extraction protocols from anaerobic sludge for gel-based proteomic studies. <i>Water Science and Technology</i> , 2015, 72, 535-542.	2.5	4
88	Enhancement of anaerobic degradation of azo dye with riboflavin and nicotinamide adenine dinucleotide harvested by osmotic lysis of wasted fermentation yeasts. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 483-494.	2.2	4
89	Behavior of pharmaceuticals in UV photoreactors fed with sewage treated by anaerobic/aerobic system. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 2775-2784.	2.2	4
90	Oxida�o de f�rmacos por cloro e forma�o de subprodutos em amostras aquosas em escala de bancada. <i>Engenharia Sanitaria E Ambiental</i> , 2018, 23, 207-216.	0.5	4

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91	Synthesis of hybrid magnetic molecularly imprinted polymers for the selective adsorption of volatile fatty acids from anaerobic effluents. <i>Polymer International</i> , 2020, 69, 847-857.	3.1	4
92	EVALUATION OF REMOVAL OF PHARMACEUTICALS AND ENDOCRINE DISRUPTERS IN DRINKING WATER BY CLARIFICATION AT BENCH SCALE. <i>Quimica Nova</i> , 2014, , .	0.3	4
93	Determination of Endocrine Disrupters and Pharmaceuticals in Sewage Samples by Tandem Solid Phase Clean up/Extraction and High Performance Liquid Chromatography-Negative and Positive Electrospray High-Resolution Mass Spectrometry. <i>Journal of the Brazilian Chemical Society</i> , 2013, , .	0.6	4
94	Hierarquia da efici�ncia de remo�o de cianotoxinas por meio de adsor�o em carv�o ativado granular. <i>Engenharia Sanitaria E Ambiental</i> , 2017, 22, 691-697.	0.5	3
95	Evaluation of a Combined System Based on an Upflow Anaerobic Sludge Blanket Reactor (UASB) and Shallow Polishing Pond (SPP) for Textile Effluent Treatment. <i>Brazilian Archives of Biology and Technology</i> , 0, 63, .	0.5	3
96	Is anaerobic co-digestion the missing link to integrate sugarcane biorefinery?. <i>Renewable Energy</i> , 2022, 195, 488-496.	8.9	3
97	Aplica�o de princ�pios de bioenerg�tica no c�lculo da estequiometria de rea�es biol�gicas em processos de tratamento de �guas residu�rias. <i>Engenharia Sanitaria E Ambiental</i> , 2010, 15, 245-250.	0.5	2
98	IMMOBILIZED TITANIUM DIOXIDE (TiO <sub>2</sub> ) IN DIFFERENT SUPPORT MATERIALS TO USE IN HETEROGENEOUS PHOTOCATALYSIS. <i>Quimica Nova</i> , 2016, , .	0.3	2
99	Assessment of Conventional Full-Scale Treatment for the Removal of Endocrine Disruptors and Pharmaceuticals Present in the Tibagi River (Paran� State, Brazil). <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	2
100	Ensaio toxicol�gicos aplicados � an�lise de �guas contaminadas por f�rmacos. <i>Engenharia Sanitaria E Ambiental</i> , 2020, 25, 217-228.	0.5	2
101	Occurrence and removal of drugs and endocrine disruptors in water supply systems in the metropolitan region of Belo Horizonte (Minas Gerais State, Brazil). <i>Environmental Monitoring and Assessment</i> , 2022, 194, .	2.7	2
102	Influ�ncia da redu�o do tamanho de part�culas na taxa de hidr�lise de esgoto bruto dom�stico. <i>Engenharia Sanitaria E Ambiental</i> , 2008, 13, 405-415.	0.5	1
103	USE OF MULTIVARIATE EXPERIMENTAL DESIGNS FOR OPTIMIZING THE REDUCTIVE DEGRADATION OF AN AZO DYE IN THE PRESENCE OF REDOX MEDIATORS. <i>Quimica Nova</i> , 2014, , .	0.3	1
104	Investiga�o de cafe�na, Genfibrozila, Bezafibrato, Metformina, Prometazina e Loratadina em �guas de sistema de abastecimento p�blico. <i>Engenharia Sanitaria E Ambiental</i> , 2021, 26, 1143-1154.	0.5	1
105	Uso de fotorreatores UV para a remo�o de diclofenaco, bezafibrato e etinilestradiol de esgoto tratado em sistema UASB-FBP. <i>Engenharia Sanitaria E Ambiental</i> , 2015, 20, 493-502.	0.5	0
106	Hydrogen production by <i>Enterobacter</i> sp. LBTM 2 using sugarcane bagasse hemicellulose hydrolysate and a synthetic substrate: understanding and controlling toxicity. <i>Anais Da Academia Brasileira De Ciencias</i> , 2021, 93, e20201679.	0.8	0
107	Characterization of enalapril and ranitidine chlorination by-products by liquid chromatography/high-resolution mass spectrometry and their toxicity evaluation. <i>Quimica Nova</i> , 0, , .	0.3	0
108	Anaerobic-Aerobic Combined System for the Biological Treatment of Azo Dye Solution Using Residual Yeast. <i>Water Environment Research</i> , 2019, , .	2.7	0