

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	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
2	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
3	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
4	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
5	Is anaerobic co-digestion the missing link to integrate sugarcane biorefinery?. <i>Renewable Energy</i> , 2022, 195, 488-496.	8.9	3
6	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
7	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
8	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
9	Occurrence and removal of drugs and endocrine disruptors in the Bolonha Water Treatment Plant in Belém/PA (Brazil). <i>Environmental Monitoring and Assessment</i> , 2021, 193, 246.	2.7	10
10	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
11	Assessment of Conventional Full-Scale Treatment for the Removal of Endocrine Disruptors and Pharmaceuticals Present in the Tibagi River (Paraná State, Brazil). <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	2
12	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
13	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
14	Investigação de cafeína, Genfibrozila, Bezafibrato, Metformina, Prometazina e Loratadina em Águas de sistema de abastecimento público. <i>Engenharia Sanitaria E Ambiental</i> , 2021, 26, 1143-1154.	0.5	1
15	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
16	Removal of Estradiol from Water with a Hybrid MIP-TiO ₂ Catalytic Adsorbent. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	9
17	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
18	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

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19	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
20	Ensaio toxicológico aplicado à análise de águas contaminadas por fármacos. <i>Engenharia Sanitaria E Ambiental</i> , 2020, 25, 217-228.	0.5	2
21	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
22	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
23	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
24	Anaerobic-Aerobic Combined System for the Biological Treatment of Azo Dye Solution Using Residual Yeast. <i>Water Environment Research</i> , 2019, , .	2.7	0
25	Anaerobic co-digestion of coffee husks and microalgal biomass after thermal hydrolysis. <i>Bioresource Technology</i> , 2018, 253, 49-54.	9.6	55
26	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
27	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
28	Ocorrência de fármacos e desreguladores endócrinos em esgoto bruto e tratado na cidade de Belo Horizonte (MG). <i>Engenharia Sanitaria E Ambiental</i> , 2018, 23, 1199-1211.	0.5	10
29	Oxidação de fármacos por cloro e formação de subprodutos em amostras aquosas em escala de bancada. <i>Engenharia Sanitaria E Ambiental</i> , 2018, 23, 207-216.	0.5	4
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	Steam explosion pretreatment improved the biomethanization of coffee husks. <i>Bioresource Technology</i> , 2017, 245, 66-72.	9.6	45
41	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
42	Hierarquização da eficiência de remoção de cianotoxinas por meio de adsorção em carvão ativado granular. <i>Engenharia Sanitaria E Ambiental</i> , 2017, 22, 691-697.	0.5	3
43	Fármacos e desreguladores endócrinos em Águas brasileiras: ocorrência e técnicas de remoção. <i>Engenharia Sanitaria E Ambiental</i> , 2017, 22, 1043-1054.	0.5	38
44	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
45	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
46	IMMOBILIZED TITANIUM DIOXIDE (TiO ₂) IN DIFFERENT SUPPORT MATERIALS TO USE IN HETEROGENEOUS PHOTOCATALYSIS. <i>Quimica Nova</i> , 2016, , .	0.3	2
47	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
48	Evaluation of hydrogen and methane production from sugarcane bagasse hemicellulose hydrolysates by two-stage anaerobic digestion process. <i>Bioresource Technology</i> , 2016, 218, 436-446.	9.6	56
49	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
50	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
51	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
52	Optimization of sugarcane bagasse autohydrolysis for methane production from hemicellulose hydrolysates in a biorefinery concept. <i>Bioresource Technology</i> , 2016, 200, 137-146.	9.6	69
53	COMPARISON OF UASB AND FLUIDIZED-BED REACTORS FOR SULFATE REDUCTION. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 59-71.	1.3	10
54	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

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55	Uso de fotorreatores UV para a remoção de diclofenaco, bezafibrato e etinilestradiol de esgoto tratado em sistema UASB-FBP. Engenharia Sanitaria E Ambiental, 2015, 20, 493-502.	0.5	0
56	Remoção de microcistina-LR de Águas eutrofizadas por clarificação e filtração seguidas de adsorção em carvão ativado granular. Engenharia Sanitaria E Ambiental, 2015, 20, 603-612.	0.5	6
57	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. Industrial Crops and Products, 2015, 74, 111-121.	5.2	115
58	Evaluation of EPS extraction protocols from anaerobic sludge for gel-based proteomic studies. Water Science and Technology, 2015, 72, 535-542.	2.5	4
59	Application of cellulose-immobilized riboflavin as a redox mediator for anaerobic degradation of a model azo dye Remazol Golden Yellow RNL. Industrial Crops and Products, 2015, 65, 454-462.	5.2	16
60	Evaluation of soluble microbial products and aromatic amines accumulation during a combined anaerobic/aerobic treatment of a model azo dye. Chemical Engineering Journal, 2015, 259, 936-944.	12.7	44
61	Microbial dynamics during azo dye degradation in a UASB reactor supplied with yeast extract. Brazilian Journal of Microbiology, 2014, 45, 1153-1160.	2.0	13
62	EPS and SMP dynamics at different heights of a submerged anaerobic membrane bioreactor (SAMBR). Process Biochemistry, 2014, 49, 2241-2248.	3.7	50
63	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> . Journal of Mass Spectrometry, 2014, 49, 145-153.	1.6	83
64	Removal of Pharmaceuticals and Endocrine Disruptor Compounds from Natural Waters by Clarification Associated with Powdered Activated Carbon. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	9
65	Photodegradation of bisphenol A in aqueous medium: Monitoring and identification of by-products by liquid chromatography coupled to high-resolution mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 987-994.	1.5	41
66	Use of calcined layered double hydroxides for the removal of color and organic matter from textile effluents: kinetic, equilibrium and recycling studies. Brazilian Journal of Chemical Engineering, 2014, 31, 19-26.	1.3	39
67	EVALUATION OF REMOVAL OF PHARMACEUTICALS AND ENDOCRINE DISRUPTERS IN DRINKING WATER BY CLARIFICATION AT BENCH SCALE. Quimica Nova, 2014, , .	0.3	4
68	USE OF MULTIVARIATE EXPERIMENTAL DESIGNS FOR OPTIMIZING THE REDUCTIVE DEGRADATION OF AN AZO DYE IN THE PRESENCE OF REDOX MEDIATORS. Quimica Nova, 2014, , .	0.3	1
69	Degradation of a model azo dye in submerged anaerobic membrane bioreactor (SAMBR) operated with powdered activated carbon (PAC). Journal of Environmental Management, 2013, 128, 462-470.	7.8	54
70	Behaviour of pharmaceuticals and endocrine disrupting chemicals in simplified sewage treatment systems. Journal of Environmental Management, 2013, 128, 718-726.	7.8	69
71	Remoção de fármacos e desreguladores endócrinos em estações de tratamento de esgoto: revisão da literatura. Engenharia Sanitaria E Ambiental, 2013, 18, 187-204.	0.5	57
72	Validação de método de cromatografia líquida para a determinação de sete ácidos graxos voláteis intermediários da digestão anaeróbia. Engenharia Sanitaria E Ambiental, 2013, 18, 295-302.	0.5	15

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73	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
74	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
75	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
76	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
77	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
78	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
79	Biometanização seca de resíduos sólidos urbanos: estado da arte e análise crítica das principais tecnologias. <i>Engenharia Sanitaria E Ambiental</i> , 2012, 17, 295-304.	0.5	5
80	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
81	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
82	Influence of incubation conditions on the specific methanogenic activity test. <i>Biodegradation</i> , 2010, 21, 411-424.	3.0	31
83	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
84	Caracterização de contaminantes presentes em sistemas de tratamento de esgotos, por cromatografia líquida acoplada à espectrometria de massas tandem em alta resolução. <i>Química Nova</i> , 2010, 33, 734-738.	0.3	9
85	Caracterização e tratabilidade biológica dos efluentes líquidos gerados em cabines de pintura de uma indústria moveleira. <i>Engenharia Sanitaria E Ambiental</i> , 2010, 15, 357-366.	0.5	6
86	Aplicação de princípios de bioenergética no cálculo da estequiometria de reações biológicas em processos de tratamento de águas residuais. <i>Engenharia Sanitaria E Ambiental</i> , 2010, 15, 245-250.	0.5	2
87	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
88	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
89	Uso de extrato de levedura como fonte de carbono e de mediadores redox, para a degradação anaeróbia de corante azo. <i>Engenharia Sanitaria E Ambiental</i> , 2009, 14, 559-568.	0.5	6
90	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

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91	Removal of Zn ²⁺ from Electroplating Wastewater Using Modified Wood Sawdust and Sugarcane Bagasse. <i>Journal of Environmental Engineering, ASCE</i> , 2009, 135, 341-350.	1.4	16
92	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
93	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
94	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
95	METHODOLOGIES FOR DETERMINING THE BIOAVAILABILITY AND BIODEGRADABILITY OF SLUDGES. <i>Environmental Technology (United Kingdom)</i> , 2008, 29, 855-862.	2.2	19
96	Caracterizaç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
97	Avaliaço da biodegradabilidade anaerbia de lixiviados de aterro sanitrios. <i>Engenharia Sanitaria E Ambiental</i> , 2008, 13, 38-45.	0.5	7
98	Influncia da reduç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
99	Bioavailability and Toxicity of Metal Nutrients during Anaerobic Digestion. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 28-35.	1.4	60
100	Metodologias para determinaço da atividade metanognica especfica (AME) em lodos anaerbios. <i>Engenharia Sanitaria E Ambiental</i> , 2007, 12, 192-201.	0.5	72
101	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
102	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
103	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
104	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
105	Soluble microbial products formation in anaerobic chemostats in the presence of toxic compounds. <i>Water Research</i> , 2004, 38, 255-266.	11.3	280
106	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
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	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