

# Ana Soares

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

3,804  
citations

172386

29  
h-index

128225

60  
g-index

78  
all docs

78  
docs citations

78  
times ranked

4703  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regeneration and modelling of a phosphorous removal and recovery hybrid ion exchange resin after long term operation with municipal wastewater. <i>Chemosphere</i> , 2022, 286, 131581.	4.2	13
2	Ammonia recovery from brines originating from a municipal wastewater ion exchange process and valorization of recovered nitrogen into microbial protein. <i>Chemical Engineering Journal</i> , 2022, 427, 130896.	6.6	24
3	Gaps in Regulation and Policies on the Application of Green Technologies at Household Level in the United Kingdom. <i>Sustainability</i> , 2022, 14, 4030.	1.6	4
4	Ammonia removal from thermal hydrolysis dewatering liquors via three different deammonification technologies. <i>Science of the Total Environment</i> , 2021, 755, 142684.	3.9	19
5	Evaluation of a Full-Scale Suspended Sludge Deammonification Technology Coupled with an Hydrocyclone to Treat Thermal Hydrolysis Dewatering Liquors. <i>Processes</i> , 2021, 9, 278.	1.3	9
6	Resilience and life cycle assessment of ion exchange process for ammonium removal from municipal wastewater. <i>Science of the Total Environment</i> , 2021, 783, 146834.	3.9	23
7	Demonstration of ion exchange technology for phosphorus removal and recovery from municipal wastewater. <i>Chemical Engineering Journal</i> , 2021, 420, 129913.	6.6	44
8	Understanding the mechanisms of biological struvite biomineralisation. <i>Chemosphere</i> , 2021, 281, 130986.	4.2	13
9	The mechanisms of struvite biomineralization in municipal wastewater. <i>Science of the Total Environment</i> , 2021, 799, 149261.	3.9	20
10	Development and calibration of a new mathematical model for the description of an ion-exchange process for ammonia removal in the presence of competing ions. <i>Water Research</i> , 2021, 206, 117779.	5.3	6
11	Predicting the potential of sludge dewatering liquors to recover nutrients as struvite biominerals. <i>Environmental Science and Ecotechnology</i> , 2020, 3, 100052.	6.7	17
12	Hydrolysis and Methanogenesis in UASB-AnMBR Treating Municipal Wastewater Under Psychrophilic Conditions: Importance of Reactor Configuration and Inoculum. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 567695.	2.0	17
13	Preparation and evaluation of zeolites for ammonium removal from municipal wastewater through ion exchange process. <i>Scientific Reports</i> , 2020, 10, 12426.	1.6	53
14	Ammonia removal from mixed dewatering liquors by three different deammonification technologies. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 3440-3450.	1.2	1
15	Wastewater treatment in 2050: Challenges ahead and future vision in a European context. <i>Environmental Science and Ecotechnology</i> , 2020, 2, 100030.	6.7	43
16	Nutrient metabolism, mass balance, and microbial structure community in a novel denitrifying phosphorus removal system based on the utilizing rules of acetate and propionate. <i>Chemosphere</i> , 2020, 257, 127076.	4.2	26
17	Economic evaluation of ion-exchange processes for nutrient removal and recovery from municipal wastewater. <i>Npj Clean Water</i> , 2020, 3, .	3.1	55
18	Understanding the biochemical characteristics of struvite bio-mineralising microorganisms and their future in nutrient recovery. <i>Chemosphere</i> , 2020, 247, 125799.	4.2	13

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19	Establishing the mechanisms underpinning solids breakthrough in UASB configured anaerobic membrane bioreactors to mitigate fouling. <i>Water Research</i> , 2020, 176, 115754.	5.3	17
20	Characterisation of thiocyanate degradation in a mixed culture activated sludge process treating coke wastewater. <i>Bioresource Technology</i> , 2019, 288, 121524.	4.8	13
21	Enhancing the anaerobic digestion process through carbon dioxide enrichment: initial insights into mechanisms of utilization. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 1744-1755.	1.2	8
22	ENERWATER â€“ A standard method for assessing and improving the energy efficiency of wastewater treatment plants. <i>Applied Energy</i> , 2019, 242, 897-910.	5.1	53
23	Nitrogen removal from coke making wastewater through a pre-denitrification activated sludge process. <i>Science of the Total Environment</i> , 2019, 666, 31-38.	3.9	21
24	Comparable membrane permeability can be achieved in granular and flocculent anaerobic membrane bioreactor for sewage treatment through better sludge blanket control. <i>Journal of Water Process Engineering</i> , 2019, 28, 181-189.	2.6	17
25	The impact of background wastewater constituents on the selectivity and capacity of a hybrid ion exchange resin for phosphorus removal from wastewater. <i>Chemosphere</i> , 2019, 224, 494-501.	4.2	41
26	Optimization of a full-scale site to achieve total nitrogen removal through implementation of a denitrification-submerged anoxic filter. <i>Water and Environment Journal</i> , 2018, 32, 242-249.	1.0	2
27	Alkalinity and external carbon requirements for denitrification-nitrification of coke wastewater. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2266-2277.	1.2	18
28	Enhancing the removal of pollutants from coke wastewater by bioaugmentation: A scoping study. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2535-2543.	1.6	10
29	Understanding the growth of the bio-struvite production <i>Brevibacterium antiquum</i> in sludge liquors. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2278-2287.	1.2	9
30	Influence of internal fluid velocities and media fill ratio on submerged aerated filter hydrodynamics and process performance for municipal wastewater treatment. <i>Chemical Engineering Research and Design</i> , 2018, 114, 179-191.	2.7	6
31	Identification of gas sparging regimes for granular anaerobic membrane bioreactor to enable energy neutral municipal wastewater treatment. <i>Journal of Membrane Science</i> , 2018, 555, 125-133.	4.1	47
32	Comparison of fouling between aerobic and anaerobic MBR treating municipal wastewater. <i>H2Open Journal</i> , 2018, 1, 131-159.	0.8	26
33	Industrial wastewater treatment through bioaugmentation. <i>Chemical Engineering Research and Design</i> , 2018, 118, 178-187.	2.7	77
34	Influence of carrier media physical properties on start-up of moving attached growth systems. <i>Bioresource Technology</i> , 2018, 266, 463-471.	4.8	29
35	The role of pH on the biological struvite production in digested sludge dewatering liquors. <i>Scientific Reports</i> , 2018, 8, 7225.	1.6	27
36	Sustaining membrane permeability during unsteady-state operation of anaerobic membrane bioreactors for municipal wastewater treatment following peak-flow. <i>Journal of Membrane Science</i> , 2018, 564, 289-297.	4.1	20

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37	Impact of carrier media on oxygen transfer and wastewater hydrodynamics on a moving attached growth system. <i>Chemical Engineering Journal</i> , 2018, 351, 399-408.	6.6	27
38	Enhancing the removal of hazardous pollutants from coke-making wastewater by dosing activated carbon to a pilot-scale activated sludge process. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2325-2333.	1.6	12
39	Performance and stability of sewage sludge digestion under CO <sub>2</sub> enrichment: A pilot study. <i>Bioresource Technology</i> , 2017, 245, 581-589.	4.8	35
40	Bioconversion of carbon dioxide in anaerobic digesters for on-site carbon capture and biogas enhancement – A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2017, 47, 1555-1580.	6.6	26
41	Monitoring and diagnosis of energy consumption in wastewater treatment plants. A state of the art and proposals for improvement. <i>Applied Energy</i> , 2016, 179, 1251-1268.	5.1	333
42	Dissolved methane recovery from anaerobic effluents using hollow fibre membrane contactors. <i>Journal of Membrane Science</i> , 2016, 502, 141-150.	4.1	136
43	Biotreatment of Hydrate-Inhibitor-Containing Produced Waters at Low pH. <i>SPE Journal</i> , 2015, 20, 1254-1260.	1.7	8
44	Gas to liquid mass transfer in rheologically complex fluids. <i>Chemical Engineering Journal</i> , 2015, 273, 656-667.	6.6	32
45	Biological carbon dioxide utilisation in food waste anaerobic digesters. <i>Water Research</i> , 2015, 87, 467-475.	5.3	25
46	Ecological conditions of ponds situated on blast furnace slag deposits located in South Gare Site of Special Scientific Interest (SSSI), Teesside, UK. <i>Environmental Geochemistry and Health</i> , 2015, 37, 545-556.	1.8	4
47	Energy benchmarking in wastewater treatment plants: the importance of site operation and layout. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 260-269.	1.2	46
48	Biostruvite: A New Route to Recover Phosphorus from Wastewater. <i>Clean - Soil, Air, Water</i> , 2014, 42, 994-997.	0.7	32
49	Carbon capture and biogas enhancement by carbon dioxide enrichment of anaerobic digesters treating sewage sludge or food waste. <i>Bioresource Technology</i> , 2014, 159, 1-7.	4.8	49
50	A molecular imprinted polymer based sensor for measuring phosphate in wastewater samples. <i>Water Science and Technology</i> , 2014, 69, 48-54.	1.2	18
51	Conductance based sensing and analysis of soluble phosphates in wastewater. <i>Biosensors and Bioelectronics</i> , 2014, 52, 173-179.	5.3	18
52	Impact on reactor configuration on the performance of anaerobic MBRs: Treatment of settled sewage in temperate climates. <i>Water Research</i> , 2013, 47, 4853-4860.	5.3	54
53	Sensing and analysis of soluble phosphates in environmental samples: A review. <i>Biosensors and Bioelectronics</i> , 2013, 41, 1-11.	5.3	211
54	Treatment and Energy Efficiency of a Granular Sludge Anaerobic Membrane Reactor Handling Domestic Sewage. <i>Procedia Engineering</i> , 2012, 44, 1977-1979.	1.2	4

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55	Biologically and chemically mediated adsorption and precipitation of phosphorus from wastewater. <i>Current Opinion in Biotechnology</i> , 2012, 23, 890-896.	3.3	86
56	Resource dependent biodegradation of estrogens and the role of ammonia oxidising and heterotrophic bacteria. <i>Journal of Hazardous Materials</i> , 2012, 239-240, 56-63.	6.5	24
57	The effectiveness of anaerobic digestion in removing estrogens and nonylphenol ethoxylates. <i>Journal of Hazardous Materials</i> , 2012, 199-200, 88-95.	6.5	85
58	Fate of Alkylphenolic Compounds during Activated Sludge Treatment: Impact of Loading and Organic Composition. <i>Environmental Science &amp; Technology</i> , 2011, 45, 248-254.	4.6	35
59	Modelling the energy demands of aerobic and anaerobic membrane bioreactors for wastewater treatment. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 921-932.	1.2	166
60	Comparison between disintegrated and fermented sewage sludge for production of a carbon source suitable for biological nutrient removal. <i>Journal of Hazardous Materials</i> , 2010, 175, 733-739.	6.5	71
61	An internal carbon source for improving biological nutrient removal. <i>Bioresource Technology</i> , 2009, 100, 149-154.	4.8	49
62	Influence of Operating Parameters on the Biodegradation of Steroid Estrogens and Nonylphenolic Compounds during Biological Wastewater Treatment Processes. <i>Environmental Science &amp; Technology</i> , 2009, 43, 6646-6654.	4.6	89
63	A novel approach to the anaerobic treatment of municipal wastewater in temperate climates through primary sludge fortification. <i>Environmental Technology (United Kingdom)</i> , 2009, 30, 985-994.	1.2	14
64	Preliminary evaluation of new polymer matrix for solid-phase extraction of nonylphenol from water samples. <i>Analytica Chimica Acta</i> , 2008, 612, 99-104.	2.6	47
65	Nonylphenol in the environment: A critical review on occurrence, fate, toxicity and treatment in wastewaters. <i>Environment International</i> , 2008, 34, 1033-1049.	4.8	962
66	Reuse Of Urban Water: Impact Of Product Choice. , 2008, , 13-22.		2
67	Influence of Agitation on the Removal of Nonylphenol by the White-rot Fungi <i>Trametes versicolor</i> and <i>Bjerkandera</i> sp. BOL 13. <i>Biotechnology Letters</i> , 2006, 28, 139-143.	1.1	21
68	Biodegradation of nonylphenol in a continuous bioreactor at low temperatures and effects on the microbial population. <i>Applied Microbiology and Biotechnology</i> , 2006, 69, 597-606.	1.7	39
69	Influence of temperature on process efficiency and microbial community response during the biological removal of chlorophenols in a packed-bed bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 591-599.	1.7	29
70	The ability of white-rot fungi to degrade the endocrine-disrupting compound nonylphenol. <i>Applied Microbiology and Biotechnology</i> , 2005, 66, 719-725.	1.7	76
71	Biodegradation of phenol at low temperature using two-phase partitioning bioreactors. <i>Water Science and Technology</i> , 2005, 52, 97-105.	1.2	9
72	Aerobic biodegradation of nonylphenol by cold-adapted bacteria. <i>Biotechnology Letters</i> , 2003, 25, 731-738.	1.1	62

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73	Biodegradation of nonylphenol in a continuous packed-bed bioreactor. <i>Biotechnology Letters</i> , 2003, 25, 927-933.	1.1	21