Daniela P Mesquita

List of Publications by Year
in descending order

43 papers	905 citations	489802 18 h-index	536525 29 g-index
44 all docs	44 docs citations	44 times ranked	904 citing authors

#	Article	IF	Citations
1	Monitoring morphological changes from activated sludge to aerobic granular sludge under distinct organic loading rates and increasing minimal imposed sludge settling velocities through quantitative image analysis. Chemosphere, 2022, 286, 131637.	4.2	2
2	Treatment of saline wastewater amended with endocrine disruptors by aerobic granular sludge: Assessing performance and microbial community dynamics. Journal of Environmental Chemical Engineering, 2022, 10, 107272.	3.3	7
3	Prediction of sludge settleability, density and suspended solids of aerobic granular sludge in the presence of pharmaceutically active compounds by quantitative image analysis and chemometric tools. Journal of Environmental Chemical Engineering, 2022, 10, 107136.	3.3	3
4	The Role of Extracellular Polymeric Substances in Micropollutant Removal. Frontiers in Chemical Engineering, 2022, 4, .	1.3	17
5	Negative impacts of cleaning agent DEPTAL MCLÂ® on activated sludge wastewater treatment system. Science of the Total Environment, 2022, 838, 155957.	3.9	0
6	Long-term stability of a non-adapted aerobic granular sludge process treating fish canning wastewater associated to EPS producers in the core microbiome. Science of the Total Environment, 2021, 756, 144007.	3.9	33
7	Increased extracellular polymeric substances production contributes for the robustness of aerobic granular sludge during long-term intermittent exposure to 2-fluorophenol in saline wastewater. Journal of Water Process Engineering, 2021, 40, 101977.	2.6	18
8	Assessment of an aerobic granular sludge system in the presence of pharmaceutically active compounds by quantitative image analysis and chemometric techniques. Journal of Environmental Management, 2021, 289, 112474.	3.8	9
9	Validation of a quantitative image analysis methodology for the assessment of the morphology and structure of aerobic granular sludge in the presence of pharmaceutically active compounds. Environmental Technology and Innovation, 2021, 23, 101639.	3.0	8
10	High Carbon Load in Food Processing Industrial Wastewater is a Driver for Metabolic Competition in Aerobic Granular Sludge. Frontiers in Environmental Science, 2021, 9, .	1.5	4
11	Effect of ibuprofen on extracellular polymeric substances (EPS) production and composition, and assessment of microbial structure by quantitative image analysis. Journal of Environmental Management, 2021, 293, 112852.	3.8	15
12	Quantitative image analysis as a robust tool to assess effluent quality from an aerobic granular sludge system treating industrial wastewater. Chemosphere, 2021, , 132773.	4.2	2
13	Impact of Industrial Wastewater Discharge on the Environment and Human Health. Chemistry in the Environment, 2021, , 15-39.	0.2	1
14	Volatile Fatty Acids (VFA) Production from Wastewaters with High Salinityâ€"Influence of pH, Salinity and Reactor Configuration. Fermentation, 2021, 7, 303.	1.4	8
15	Environmental impact and biological removal processes of pharmaceutically active compounds: The particular case of sulfonamides, anticonvulsants and steroid estrogens. Critical Reviews in Environmental Science and Technology, 2020, 50, 698-742.	6.6	21
16	Sludge volume index and suspended solids estimation of mature aerobic granular sludge by quantitative image analysis and chemometric tools. Separation and Purification Technology, 2020, 234, 116049.	3.9	24
17	Degradation of widespread pharmaceuticals by activated sludge: Kinetic study, toxicity assessment, and comparison with adsorption processes. Journal of Water Process Engineering, 2020, 33, 101061.	2.6	20
18	Variability in the composition of extracellular polymeric substances from a full-scale aerobic granular sludge reactor treating urban wastewater. Journal of Environmental Chemical Engineering, 2020, 8, 104156.	3.3	29

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19	NIR spectroscopy applied to the determination of 2‑phenylethanol and L‑phenylalanine concentrations in culture medium of *Yarrowia lipolytica*. Journal of Chemical Technology and Biotechnology, 2019, 94, 812-818.	1.6	10
20	Quantification of pharmaceutical compounds in wastewater samples by near infrared spectroscopy (NIR). Talanta, 2019, 194, 507-513.	2.9	27
21	New PLS analysis approach to wine volatile compounds characterization by near infrared spectroscopy (NIR). Food Chemistry, 2018, 246, 172-178.	4.2	80
22	Quantitative image analysis of polyhydroxyalkanoates inclusions from microbial mixed cultures under different SBR operation strategies. Environmental Science and Pollution Research, 2017, 24, 15148-15156.	2.7	3
23	Simultaneous partial nitrification and 2-fluorophenol biodegradation with aerobic granular biomass: Reactor performance and microbial communities. Bioresource Technology, 2017, 238, 232-240.	4.8	21
24	Monitoring biological wastewater treatment processes: recent advances in spectroscopy applications. Reviews in Environmental Science and Biotechnology, 2017, 16, 395-424.	3.9	50
25	Estimation of effluent quality parameters from an activated sludge system using quantitative image analysis. Chemical Engineering Journal, 2016, 285, 349-357.	6.6	31
26	Quantitative image analysis as a tool for Yarrowia lipolytica dimorphic growth evaluation in different culture media. Journal of Biotechnology, 2016, 217, 22-30.	1.9	20
27	Polyhydroxyalkanoate granules quantification in mixed microbial cultures using image analysis: Sudan Black B versus Nile Blue A staining. Analytica Chimica Acta, 2015, 865, 8-15.	2.6	16
28	Near-infrared spectroscopy for the detection and quantification of bacterial contaminations in pharmaceutical products. International Journal of Pharmaceutics, 2015, 492, 199-206.	2.6	18
29	Aroma production by Yarrowia lipolytica in airlift and stirred tank bioreactors: Differences in yeast metabolism and morphology. Biochemical Engineering Journal, 2015, 93, 55-62.	1.8	42
30	Monitoring intracellular polyphosphate accumulation in enhanced biological phosphorus removal systems by quantitative image analysis. Water Science and Technology, 2014, 69, 2315-2323.	1.2	1
31	Prediction of intracellular storage polymers using quantitative image analysis in enhanced biological phosphorus removal systems. Analytica Chimica Acta, 2013, 770, 36-44.	2.6	15
32	Quantitative image analysis for the characterization of microbial aggregates in biological wastewater treatment: a review. Environmental Science and Pollution Research, 2013, 20, 5887-5912.	2.7	31
33	Activated sludge characterization through microscopy: A review on quantitative image analysis and chemometric techniques. Analytica Chimica Acta, 2013, 802, 14-28.	2.6	59
34	Automatic identification of activated sludge disturbances and assessment of operational parameters. Chemosphere, 2013, 91, 705-710.	4.2	34
35	Image Analysis for Automatic Characterization of Polyhydroxyalcanoates Granules. Lecture Notes in Computer Science, 2013, , 790-797.	1.0	3
36	Characterization of activated sludge abnormalities by image analysis and chemometric techniques. Analytica Chimica Acta, 2011, 705, 235-242.	2.6	29

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37	Identifying different types of bulking in an activated sludge system through quantitative image analysis. Chemosphere, 2011, 85, 643-652.	4.2	71
38	Image analysis application for the study of activated sludge floc size during the treatment of synthetic and real fishery wastewaters. Environmental Science and Pollution Research, 2011, 18, 1390-1397.	2.7	6
39	Dilution and Magnification Effects on Image Analysis Applications in Activated Sludge Characterization. Microscopy and Microanalysis, 2010, 16, 561-568.	0.2	14
40	A Comparison between Bright Field and Phase-Contrast Image Analysis Techniques in Activated Sludge Morphological Characterization. Microscopy and Microanalysis, 2010, 16, 166-174.	0.2	20
41	Study of saline wastewater influence on activated sludge flocs through automated image analysis. Journal of Chemical Technology and Biotechnology, 2009, 84, 554-560.	1.6	12
42	Monitoring of activated sludge settling ability through image analysis: validation on full-scale wastewater treatment plants. Bioprocess and Biosystems Engineering, 2009, 32, 361-367.	1.7	28
43	Correlation between sludge settling ability and image analysis information using partial least squares. Analytica Chimica Acta, 2009, 642, 94-101.	2.6	41