

# Gaetano Di Bella

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,707  
citations

218381

26  
h-index

288905

40  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Occurrence of Microplastics in Waste Sludge of Wastewater Treatment Plants: Comparison between Membrane Bioreactor (MBR) and Conventional Activated Sludge (CAS) Technologies. <i>Membranes</i> , 2022, 12, 371.	1.4	17
2	Hydrocarbons removal from real marine sediments: Analysis of degradation pathways and microbial community development during bioslurry treatment. <i>Science of the Total Environment</i> , 2022, 838, 156458.	3.9	10
3	Membrane Fouling Mitigation in MBR via the Feast–Famine Strategy to Enhance PHA Production by Activated Sludge. <i>Membranes</i> , 2022, 12, 703.	1.4	3
4	Hydrothermal Carbonization of Lemon Peel Waste: Preliminary Results on the Effects of Temperature during Process Water Recirculation. <i>Applied System Innovation</i> , 2021, 4, 19.	2.7	15
5	Aerobic Granular Sludge–Membrane BioReactor (AGS–MBR) as a Novel Configuration for Wastewater Treatment and Fouling Mitigation: A Mini-Review. <i>Membranes</i> , 2021, 11, 261.	1.4	13
6	Effect of the contact tank geometry on disinfection efficiency. <i>Journal of Water Process Engineering</i> , 2021, 41, 102035.	2.6	10
7	Reactivation of aerobic granular sludge for the treatment of industrial shipboard slop wastewater: Effects of long-term storage on granules structure, biofilm activity and microbial community. <i>Journal of Water Process Engineering</i> , 2021, 42, 102101.	2.6	10
8	Perforated Baffles for the Optimization of Disinfection Treatment. <i>Water (Switzerland)</i> , 2020, 12, 3462.	1.2	8
9	Membrane bioreactors sludge: From production to disposal. , 2020, , 323-351.		3
10	New applications in integrated fixed film activated sludge-membrane bioreactor (IFAS-MBR) systems. , 2020, , 353-374.		1
11	Washing Batch Test of Contaminated Sediment: The Case of Augusta Bay (SR, Italy). <i>Applied Sciences (Switzerland)</i> , 2020, 10, 473.	1.3	9
12	Intermittent Aeration in a Hybrid Moving Bed Biofilm Reactor for Carbon and Nutrient Biological Removal. <i>Water (Switzerland)</i> , 2020, 12, 492.	1.2	10
13	High salinity wastewater treatment by membrane bioreactors. , 2020, , 177-204.		2
14	Bench scale continuous coagulation-flocculation of saline industrial wastewater contaminated by hydrocarbons. <i>Journal of Water Process Engineering</i> , 2020, 34, 101156.	2.6	40
15	Large Eddy Simulation of Contact Tanks for Disinfection in Drinking Water Treatment. <i>ERCOFTAC Series</i> , 2020, , 503-508.	0.1	2
16	Assessing Methane Emission and Economic Viability of Energy Exploitation in a Typical Sicilian Municipal Solid Waste Landfill. <i>Waste and Biomass Valorization</i> , 2019, 10, 3173-3184.	1.8	13
17	Petrochemical slop wastewater treatment by means of aerobic granular sludge: effect of granulation process on bio-adsorption and hydrocarbons removal. <i>Chemical Engineering Journal</i> , 2019, 378, 122083.	6.6	29
18	A Brief Review on the Resistance-in-Series Model in Membrane Bioreactors (MBRs). <i>Membranes</i> , 2019, 9, 24.	1.4	51

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19	Does the feeding strategy enhance the aerobic granular sludge stability treating saline effluents?. <i>Chemosphere</i> , 2019, 226, 865-873.	4.2	44
20	The role of extracellular polymeric substances on aerobic granulation with stepwise increase of salinity. <i>Separation and Purification Technology</i> , 2018, 195, 12-20.	3.9	58
21	Fouling mechanism elucidation in membrane bioreactors by bespoke physical cleaning. <i>Separation and Purification Technology</i> , 2018, 199, 124-133.	3.9	28
22	Biological Stability of Organic Fraction of Municipal Solid Wastes During Composting Processes. <i>Environmental Engineering Science</i> , 2018, 35, 1117-1125.	0.8	2
23	Shipboard Wastewater Treatment Using Granular Activated Carbon: Adsorption Test and Bioregeneration. <i>Journal of Environmental Engineering, ASCE</i> , 2017, 143, .	0.7	4
24	The role of EPS in the foaming and fouling for a MBR operated in intermittent aeration conditions. <i>Biochemical Engineering Journal</i> , 2017, 118, 41-52.	1.8	54
25	Characterization and Treatment Proposals of Shipboard Slop Wastewater Contaminated by Hydrocarbons. <i>Water (Switzerland)</i> , 2017, 9, 581.	1.2	13
26	Start-up of two moving bed membrane bioreactors treating saline wastewater contaminated by hydrocarbons. <i>Water Science and Technology</i> , 2016, 73, 716-724.	1.2	15
27	Performance of a moving bed-membrane bioreactor treating saline wastewater contaminated by hydrocarbons from washing of oil tankers. <i>Desalination and Water Treatment</i> , 2016, 57, 22943-22952.	1.0	10
28	Study of aerobic granular sludge stability in a continuous-flow membrane bioreactor. <i>Bioresource Technology</i> , 2016, 200, 1055-1059.	4.8	78
29	Effect of C/N shock variation on the performances of a moving bed membrane bioreactor. <i>Bioresource Technology</i> , 2015, 189, 250-257.	4.8	46
30	Cultivation of granular sludge with hypersaline oily wastewater. <i>International Biodeterioration and Biodegradation</i> , 2015, 105, 192-202.	1.9	51
31	Performance of membrane bioreactor (MBR) systems for the treatment of shipboard slops: Assessment of hydrocarbon biodegradation and biomass activity under salinity variation. <i>Journal of Hazardous Materials</i> , 2015, 300, 765-778.	6.5	54
32	Effect of chemical and biological surfactants on activated sludge of MBR system: Microscopic analysis and foam test. <i>Bioresource Technology</i> , 2015, 177, 80-86.	4.8	24
33	Pilot scale experiment with MBR operated in intermittent aeration condition: Analysis of biological performance. <i>Bioresource Technology</i> , 2015, 177, 398-405.	4.8	38
34	Optimisation of coagulation/flocculation for pre-treatment of high strength and saline wastewater: Performance analysis with different coagulant doses. <i>Chemical Engineering Journal</i> , 2014, 254, 283-292.	6.6	47
35	Comparison between moving bed-membrane bioreactor (MB-MBR) and membrane bioreactor (MBR) systems: Influence of wastewater salinity variation. <i>Bioresource Technology</i> , 2014, 162, 60-69.	4.8	97
36	The role of EPS in fouling and foaming phenomena for a membrane bioreactor. <i>Bioresource Technology</i> , 2013, 147, 184-192.	4.8	68

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37	Simultaneous nitrogen and organic carbon removal in aerobic granular sludge reactors operated with high dissolved oxygen concentration. <i>Bioresource Technology</i> , 2013, 142, 706-713.	4.8	53
38	Performance of a MBR pilot plant treating high strength wastewater subject to salinity increase: Analysis of biomass activity and fouling behaviour. <i>Bioresource Technology</i> , 2013, 147, 614-618.	4.8	66
39	Foaming in membrane bioreactors: Identification of the causes. <i>Journal of Environmental Management</i> , 2013, 128, 453-461.	3.8	28
40	Uncontrolled methane emissions from a MSW landfill surface: Influence of landfill features and side slopes. <i>Waste Management</i> , 2013, 33, 2108-2115.	3.7	52
41	Biological Nutrient Removal and Fouling Phenomena in a University of Cape Town Membrane Bioreactor Treating High Nitrogen Loads. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 773-780.	0.7	21
42	Comparison between ozonation and the OSA process: analysis of excess sludge reduction and biomass activity in two different pilot plants. <i>Water Science and Technology</i> , 2012, 66, 185-192.	1.2	29
43	Comparing two start-up strategies for MBRs: Experimental study and mathematical modelling. <i>Biochemical Engineering Journal</i> , 2012, 68, 91-103.	1.8	54
44	Suspended and Attached Biomass in an mbr System Treating High Strength Wastewater Loads. <i>Procedia Engineering</i> , 2012, 44, 1967-1969.	1.2	0
45	Characterization of Biomass Activity in Conventional and Hybrid MBR Pilot Plants by Means of Respirometric Techniques. <i>Procedia Engineering</i> , 2012, 44, 1964-1966.	1.2	0
46	Modeling of perched leachate zone formation in municipal solid waste landfills. <i>Waste Management</i> , 2012, 32, 456-462.	3.7	19
47	Evaluation of methane emissions from Palermo municipal landfill: Comparison between field measurements and models. <i>Waste Management</i> , 2011, 31, 1820-1826.	3.7	59
48	The role of EPS concentration in MBR foaming: Analysis of a submerged pilot plant. <i>Bioresource Technology</i> , 2011, 102, 1628-1635.	4.8	43
49	Evaluation of biomass activity and wastewater characterization in a UCT-MBR pilot plant by means of respirometric techniques. <i>Desalination</i> , 2011, 269, 190-197.	4.0	51
50	An integrated model for biological and physical process simulation in membrane bioreactors (MBRs). <i>Journal of Membrane Science</i> , 2011, 376, 56-69.	4.1	74
51	Uncertainty assessment of a membrane bioreactor model using the GLUE methodology. <i>Biochemical Engineering Journal</i> , 2010, 52, 263-275.	1.8	25
52	Start-up with or without inoculum? Analysis of an SMBR pilot plant. <i>Desalination</i> , 2010, 260, 79-90.	4.0	36
53	An integrated model for physical-biological wastewater organic removal in a submerged membrane bioreactor: Model development and parameter estimation. <i>Journal of Membrane Science</i> , 2008, 322, 1-12.	4.1	76
54	Performances of a granular sequencing batch reactor (GSBR). <i>Water Science and Technology</i> , 2007, 55, 125-133.	1.2	2

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55	The role of fouling mechanisms in a membrane bioreactor. Water Science and Technology, 2007, 55, 455-464.	1.2	23
56	Particle size distribution and biomass growth in a submerged membrane bioreactor. Desalination, 2006, 199, 493-495.	4.0	15
57	The role of fouling mechanisms in a submerged membrane bioreactor during the start-up. Desalination, 2006, 200, 722-724.	4.0	4