Gaetano Di Bella

List of Publications by Year in descending order

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	Comparison between moving bed-membrane bioreactor (MB-MBR) and membrane bioreactor (MBR) systems: Influence of wastewater salinity variation. Bioresource Technology, 2014, 162, 60-69.	4.8	97
2	Study of aerobic granular sludge stability in a continuous-flow membrane bioreactor. Bioresource Technology, 2016, 200, 1055-1059.	4.8	78
3	An integrated model for physical-biological wastewater organic removal in a submerged membrane bioreactor: Model development and parameter estimation. Journal of Membrane Science, 2008, 322, 1-12.	4.1	76
4	An integrated model for biological and physical process simulation in membrane bioreactors (MBRs). Journal of Membrane Science, 2011, 376, 56-69.	4.1	74
5	The role of EPS in fouling and foaming phenomena for a membrane bioreactor. Bioresource Technology, 2013, 147, 184-192.	4.8	68
6	Performance of a MBR pilot plant treating high strength wastewater subject to salinity increase: Analysis of biomass activity and fouling behaviour. Bioresource Technology, 2013, 147, 614-618.	4.8	66
7	Evaluation of methane emissions from Palermo municipal landfill: Comparison between field measurements and models. Waste Management, 2011, 31, 1820-1826.	3.7	59
8	The role of extracellular polymeric substances on aerobic granulation with stepwise increase of salinity. Separation and Purification Technology, 2018, 195, 12-20.	3.9	58
9	Comparing two start-up strategies for MBRs: Experimental study and mathematical modelling. Biochemical Engineering Journal, 2012, 68, 91-103.	1.8	54
10	Performance of membrane bioreactor (MBR) systems for the treatment of shipboard slops: Assessment of hydrocarbon biodegradation and biomass activity under salinity variation. Journal of Hazardous Materials, 2015, 300, 765-778.	6.5	54
11	The role of EPS in the foaming and fouling for a MBR operated in intermittent aeration conditions. Biochemical Engineering Journal, 2017, 118, 41-52.	1.8	54
12	Simultaneous nitrogen and organic carbon removal in aerobic granular sludge reactors operated with high dissolved oxygen concentration. Bioresource Technology, 2013, 142, 706-713.	4.8	53
13	Uncontrolled methane emissions from a MSW landfill surface: Influence of landfill features and side slopes. Waste Management, 2013, 33, 2108-2115.	3.7	52
14	Evaluation of biomass activity and wastewater characterization in a UCT-MBR pilot plant by means of respirometric techniques. Desalination, 2011, 269, 190-197.	4.0	51
15	Cultivation of granular sludge with hypersaline oily wastewater. International Biodeterioration and Biodegradation, 2015, 105, 192-202.	1.9	51
16	A Brief Review on the Resistance-in-Series Model in Membrane Bioreactors (MBRs). Membranes, 2019, 9, 24.	1.4	51
17	Optimisation of coagulation/flocculation for pre-treatment of high strength and saline wastewater: Performance analysis with different coagulant doses. Chemical Engineering Journal, 2014, 254, 283-292.	6.6	47
18	Effect of C/N shock variation on the performances of a moving bed membrane bioreactor. Bioresource Technology, 2015, 189, 250-257.	4.8	46

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19	Does the feeding strategy enhance the aerobic granular sludge stability treating saline effluents?. Chemosphere, 2019, 226, 865-873.	4.2	44
20	The role of EPS concentration in MBR foaming: Analysis of a submerged pilot plant. Bioresource Technology, 2011, 102, 1628-1635.	4.8	43
21	Bench scale continuous coagulation-flocculation of saline industrial wastewater contaminated by hydrocarbons. Journal of Water Process Engineering, 2020, 34, 101156.	2.6	40
22	Pilot scale experiment with MBR operated in intermittent aeration condition: Analysis of biological performance. Bioresource Technology, 2015, 177, 398-405.	4.8	38
23	Start-up with or without inoculum? Analysis of an SMBR pilot plant. Desalination, 2010, 260, 79-90.	4.0	36
24	Comparison between ozonation and the OSA process: analysis of excess sludge reduction and biomass activity in two different pilot plants. Water Science and Technology, 2012, 66, 185-192.	1.2	29
25	Petrochemical slop wastewater treatment by means of aerobic granular sludge: effect of granulation process on bio-adsorption and hydrocarbons removal. Chemical Engineering Journal, 2019, 378, 122083.	6.6	29
26	Foaming in membrane bioreactors: Identification of the causes. Journal of Environmental Management, 2013, 128, 453-461.	3.8	28
27	Fouling mechanism elucidation in membrane bioreactors by bespoke physical cleaning. Separation and Purification Technology, 2018, 199, 124-133.	3.9	28
28	Uncertainty assessment of a membrane bioreactor model using the GLUE methodology. Biochemical Engineering Journal, 2010, 52, 263-275.	1.8	25
29	Effect of chemical and biological surfactants on activated sludge of MBR system: Microscopic analysis and foam test. Bioresource Technology, 2015, 177, 80-86.	4.8	24
30	The role of fouling mechanisms in a membrane bioreactor. Water Science and Technology, 2007, 55, 455-464.	1.2	23
31	Biological Nutrient Removal and Fouling Phenomena in a University of Cape Town Membrane Bioreactor Treating High Nitrogen Loads. Journal of Environmental Engineering, ASCE, 2013, 139, 773-780.	0.7	21
32	Modeling of perched leachate zone formation in municipal solid waste landfills. Waste Management, 2012, 32, 456-462.	3.7	19
33	Occurrence of Microplastics in Waste Sludge of Wastewater Treatment Plants: Comparison between Membrane Bioreactor (MBR) and Conventional Activated Sludge (CAS) Technologies. Membranes, 2022, 12, 371.	1.4	17
34	Particle size distribution and biomass growth in a submerged membrane bioreactor. Desalination, 2006, 199, 493-495.	4.0	15
35	Start-up of two moving bed membrane bioreactors treating saline wastewater contaminated by hydrocarbons. Water Science and Technology, 2016, 73, 716-724.	1.2	15
36	Hydrothermal Carbonization of Lemon Peel Waste: Preliminary Results on the Effects of Temperature during Process Water Recirculation. Applied System Innovation, 2021, 4, 19.	2.7	15

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37	Characterization and Treatment Proposals of Shipboard Slop Wastewater Contaminated by Hydrocarbons. Water (Switzerland), 2017, 9, 581.	1.2	13
38	Assessing Methane Emission and Economic Viability of Energy Exploitation in a Typical Sicilian Municipal Solid Waste Landfill. Waste and Biomass Valorization, 2019, 10, 3173-3184.	1.8	13
39	Aerobic Granular Sludgeâ€"Membrane BioReactor (AGSâ€"MBR) as a Novel Configuration for Wastewater Treatment and Fouling Mitigation: A Mini-Review. Membranes, 2021, 11, 261.	1.4	13
40	Performance of a moving bed-membrane bioreactor treating saline wastewater contaminated by hydrocarbons from washing of oil tankers. Desalination and Water Treatment, 2016, 57, 22943-22952.	1.0	10
41	Intermittent Aeration in a Hybrid Moving Bed Biofilm Reactor for Carbon and Nutrient Biological Removal. Water (Switzerland), 2020, 12, 492.	1.2	10
42	Effect of the contact tank geometry on disinfection efficiency. Journal of Water Process Engineering, 2021, 41, 102035.	2.6	10
43	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. Journal of Water Process Engineering, 2021, 42, 102101.	2.6	10
44	Hydrocarbons removal from real marine sediments: Analysis of degradation pathways and microbial community development during bioslurry treatment. Science of the Total Environment, 2022, 838, 156458.	3.9	10
45	Washing Batch Test of Contaminated Sediment: The Case of Augusta Bay (SR, Italy). Applied Sciences (Switzerland), 2020, 10, 473.	1.3	9
46	Perforated Baffles for the Optimization of Disinfection Treatment. Water (Switzerland), 2020, 12, 3462.	1.2	8
47	The role of fouling mechanisms in a submerged membrane bioreactor during the start-up. Desalination, 2006, 200, 722-724.	4.0	4
48	Shipboard Wastewater Treatment Using Granular Activated Carbon: Adsorption Test and Bioregeneration. Journal of Environmental Engineering, ASCE, 2017, 143, .	0.7	4
49	Membrane bioreactors sludge: From production to disposal. , 2020, , 323-351.		3
50	Membrane Fouling Mitigation in MBR via the Feastâ€"Famine Strategy to Enhance PHA Production by Activated Sludge. Membranes, 2022, 12, 703.	1.4	3
51	Performances of a granular sequencing batch reactor (GSBR). Water Science and Technology, 2007, 55, 125-133.	1.2	2
52	Biological Stability of Organic Fraction of Municipal Solid Wastes During Composting Processes. Environmental Engineering Science, 2018, 35, 1117-1125.	0.8	2
53	High salinity wastewater treatment by membrane bioreactors. , 2020, , 177-204.		2
54	Large Eddy Simulation of Contact Tanks for Disinfection in Drinking Water Treatment. ERCOFTAC Series, 2020, , 503-508.	0.1	2

#	Article	IF	Citations
55	New applications in integrated fixed film activated sludge-membrane bioreactor (IFAS-MBR) systems. , 2020, , 353-374.		1
56	Suspended and Attached Biomass in an mbr System Treating High Strength Wastewater Loads. Procedia Engineering, 2012, 44, 1967-1969.	1.2	0
57	Characterization of Biomass Activity in Conventional and Hybrid MBR Pilot Plants by Means of Respirometric Techniques. Procedia Engineering, 2012, 44, 1964-1966.	1.2	0