Gianluigi Buttiglieri

List of Publications by Year
in descending order

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52	2,106	236612	233125
papers	citations	25 h-index	45 g-index

53	53	53	2644
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced sulfamethoxazole degradation through ammonia oxidizing bacteria co-metabolism and fate of transformation products. Water Research, 2016, 94, 111-119.	5.3	206
2	Pharmaceuticals occurrence in a WWTP with significant industrial contribution and its input into the river system. Environmental Pollution, 2014, 185, 202-212.	3.7	187
3	A review of nature-based solutions for urban water management in European circular cities: a critical assessment based on case studies and literature. Blue-Green Systems, 2020, 2, 112-136.	0.6	183
4	Comprehensive study of ibuprofen and its metabolites in activated sludge batch experiments and aquatic environment. Science of the Total Environment, 2012, 438, 404-413.	3.9	161
5	Effect of oxygen concentration on biological nitrification and microbial kinetics in a cross-flow membrane bioreactor (MBR) and moving-bed biofilm reactor (MBBR) treating old landfill leachate. Journal of Membrane Science, 2006, 286, 202-212.	4.1	120
6	Effects on activated sludge bacterial community exposed to sulfamethoxazole. Chemosphere, 2013, 93, 99-106.	4.2	111
7	Characterization of metoprolol biodegradation and its transformation products generated in activated sludge batch experiments and in full scale WWTPs. Water Research, 2014, 63, 21-32.	5.3	98
8	Optimized MBR for greywater reuse systems in hotel facilities. Journal of Environmental Management, 2017, 193, 503-511.	3.8	69
9	Environmental occurrence and degradation of the herbicide n-chloridazon. Water Research, 2009, 43, 2865-2873.	5.3	67
10	Removal of ibuprofen and its transformation products: Experimental and simulation studies. Science of the Total Environment, 2012, 433, 296-301.	3.9	60
11	Denitrification of drinking water sources by advanced biological treatment using a membrane bioreactor. Desalination, 2005, 178, 211-218.	4.0	49
12	Long term decentralized greywater treatment for water reuse purposes in a tourist facility by vertical ecosystem. Ecological Engineering, 2019, 138, 138-147.	1.6	49
13	Occurrence of pharmaceuticals and UV filters in swimming pools and spas. Environmental Science and Pollution Research, 2016, 23, 14431-14441.	2.7	46
14	Management of Urban Waters with Nature-Based Solutions in Circular Citiesâ€"Exemplified through Seven Urban Circularity Challenges. Water (Switzerland), 2021, 13, 3334.	1.2	46
15	Perspectives of persistent organic pollutants (POPS) removal in an MBR pilot plant. Desalination, 2008, 224, 1-6.	4.0	36
16	Online monitoring of membrane fouling in submerged MBRs. Desalination, 2011, 277, 414-419.	4.0	36
17	Automatic control system for energy optimization in membrane bioreactors. Desalination, 2011, 268, 276-280.	4.0	35
18	Microalgae-based removal of contaminants of emerging concern: Mechanisms in Chlorella vulgaris and mixed algal-bacterial cultures. Journal of Hazardous Materials, 2021, 418, 126284.	6.5	35

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19	Metoprolol and metoprolol acid degradation in UV/H2O2 treated wastewaters: An integrated screening approach for the identification of hazardous transformation products. Journal of Hazardous Materials, 2019, 380, 120851.	6.5	32
20	Holistic life cycle assessment of water reuse in a tourist-based community. Journal of Cleaner Production, 2019, 233, 743-752.	4.6	32
21	Combining biological processes with UV/H2O2 for metoprolol and metoprolol acid removal in hospital wastewater. Chemical Engineering Journal, 2021, 404, 126482.	6.6	32
22	State-of-the-art and current challenges for TiO2/UV-LED photocatalytic degradation of emerging organic micropollutants. Environmental Science and Pollution Research, 2021, 28, 103-120.	2.7	29
23	Prospects on coupling UV/H2O2 with activated sludge or a fungal treatment for the removal of pharmaceutically active compounds in real hospital wastewater. Science of the Total Environment, 2021, 773, 145374.	3.9	29
24	The EU watch list compounds in the Ebro delta region: Assessment of sources, river transport, and seasonal variations. Environmental Pollution, 2019, 253, 606-615.	3.7	28
25	Nature-based solutions coupled with advanced technologies: An opportunity for decentralized water reuse in cities. Journal of Cleaner Production, 2022, 340, 130660.	4.6	28
26	Recycled corrugated wire hose cover as biological carriers for greywater treatment in a sequential batch biofilm reactor. Journal of Environmental Management, 2019, 240, 475-484.	3.8	26
27	Unraveling the potential of a combined nitritation-anammox biomass towards the biodegradation of pharmaceutically active compounds. Science of the Total Environment, 2018, 624, 722-731.	3.9	25
28	Novel vertical ecosystem for sustainable water treatment and reuse in tourist resorts. International Journal of Sustainable Development and Planning, 2016, 11, 263-274.	0.3	24
29	Modelling cometabolic biotransformation of sulfamethoxazole by an enriched ammonia oxidizing bacteria culture. Chemical Engineering Science, 2017, 173, 465-473.	1.9	21
30	Comparative assessment of endocrine disrupting compounds removal in heterotrophic and enriched nitrifying biomass. Chemosphere, 2019, 217, 659-668.	4.2	21
31	Removal of Emerging Contaminants in Wastewater Treatment: Conventional Activated Sludge Treatment. Handbook of Environmental Chemistry, 2008, , 1-35.	0.2	18
32	Unravelling the performance of UV/H2O2 on the removal of pharmaceuticals in real industrial, hospital, grey and urban wastewaters. Chemosphere, 2022, 290, 133315.	4.2	17
33	Exploring the potential of applying proteomics for tracking bisphenol A and nonylphenol degradation in activated sludge. Chemosphere, 2013, 90, 2309-2314.	4.2	15
34	Application of UVOX RedoxÂ® for swimming pool water treatment: Microbial inactivation, disinfection byproduct formation and micropollutant removal. Chemosphere, 2019, 220, 176-184.	4.2	15
35	How do WWTPs operational parameters affect the removal rates of EU Watch list compounds?. Science of the Total Environment, 2020, 714, 136773.	3.9	15
36	Knowledge-based control module for start-up of flat sheet MBRs. Bioresource Technology, 2012, 106, 50-54.	4.8	14

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37	Development of a control algorithm for airâ€scour reduction in membrane bioreactors for wastewater treatment. Journal of Chemical Technology and Biotechnology, 2011, 86, 784-789.	1.6	11
38	Feasibility of vertical ecosystem for sustainable water treatment and reuse in touristic resorts. Journal of Environmental Management, 2021, 294, 112968.	3.8	11
39	Adsorption and removal at low atrazine concentration in an MBR pilot plant. Water Science and Technology, 2011, 63, 1334-1340.	1.2	10
40	Impact of UV-LED photoreactor design on the degradation of contaminants of emerging concern. Chemical Engineering Research and Design, 2021, 153, 94-106.	2.7	9
41	The use of microcalorimetry to compare the biological activity of a CAS and a MBR sludgeâ€"application to pharmaceutical active compounds. Water Science and Technology, 2008, 58, 529-535.	1.2	8
42	Water management practices in Euro-Mediterranean hotels and resorts. International Journal of Water Resources Development, 2023, 39, 485-506.	1.2	8
43	Microcalorimetry: A tool to investigate aerobic, anoxic and anaerobic autotrophic and heterotrophic biodegradation. Biochemical Engineering Journal, 2010, 52, 25-32.	1.8	7
44	Possibilities of nature-based and hybrid decentralized solutions for reclaimed water reuse. Advances in Chemical Pollution, Environmental Management and Protection, 2020, , 145-187.	0.3	7
45	Exploring the limitations of forward osmosis for direct hydroponic fertigation: Impact of ion transfer and fertilizer composition on effective dilution. Journal of Environmental Management, 2022, 305, 114339.	3.8	7
46	Removal of Emerging Contaminants in Wastewater Treatment: Conventional Activated Sludge Treatment. , 2007, , 1-35.		4
47	Performance of TiO2/UV-LED-Based Processes for Degradation of Pharmaceuticals: Effect of Matrix Composition and Process Variables. Nanomaterials, 2022, 12, 295.	1.9	4
48	Fate and Removal of Pharmaceuticals in CAS for Water and Sewage Sludge Reuse. Handbook of Environmental Chemistry, 2020, , 23-51.	0.2	2
49	Innovative primary and secondary sewage treatment technologies for organic micropollutants abatement. , 2017, , 179-213.		2
50	Microcalorimetric and manometric tests to assess anammox activity. Water Science and Technology, 2009, 60, 2705-2711.	1.2	1
51	Development of an algorithm for air-scour optimization in membrane bioreactors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3795-3799.	0.4	0
52	Proteomics reliability for micropollutants degradation insight into activated sludge systems. Water Science and Technology, 2015, 72, 882-888.	1.2	0