

Gaspare Viviani

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

2,832
citations

101384

36
h-index

189595

50
g-index

83
all docs

83
docs citations

83
times ranked

2517
citing authors

#	ARTICLE	IF	CITATIONS
1	Preliminary insights about the treatment of contaminated marine sediments by means of bioslurry reactor: Process evaluation and microbiological characterization. <i>Science of the Total Environment</i> , 2022, 806, 150708.	3.9	9
2	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
3	Enhanced Sewage Sludge Drying with a Modified Solar Greenhouse. <i>Clean Technologies</i> , 2022, 4, 407-419.	1.9	0
4	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
5	Assessment of landfill leachate biodegradability and treatability by means of allochthonous and autochthonous biomasses. <i>New Biotechnology</i> , 2020, 55, 91-97.	2.4	11
6	Membrane bioreactors sludge: From production to disposal. , 2020, , 323-351.		3
7	Washing Batch Test of Contaminated Sediment: The Case of Augusta Bay (SR, Italy). <i>Applied Sciences (Switzerland)</i> , 2020, 10, 473.	1.3	9
8	High salinity wastewater treatment by membrane bioreactors. , 2020, , 177-204.		2
9	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
10	Effect of biomass features on oxygen transfer in conventional activated sludge and membrane bioreactor systems. <i>Journal of Cleaner Production</i> , 2019, 240, 118071.	4.6	14
11	Treatment of high strength industrial wastewater with membrane bioreactors for water reuse: Effect of pre-treatment with aerobic granular sludge on system performance and fouling tendency. <i>Journal of Water Process Engineering</i> , 2019, 31, 100859.	2.6	18
12	Achievement of partial nitrification under different carbon-to-nitrogen ratio and ammonia loading rate for the co-treatment of landfill leachate with municipal wastewater. <i>Biochemical Engineering Journal</i> , 2019, 149, 107229.	1.8	24
13	The influence of solid retention time on IFAS-MBR systems: analysis of system behavior. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 1840-1852.	1.2	11
14	Multiregression Analysis of the Kinetic Constants in Ephemeral Rivers: The Case Study of the Oreto River. <i>Green Energy and Technology</i> , 2019, , 355-360.	0.4	0
15	Aerobic granular sludge treating high strength citrus wastewater: Analysis of pH and organic loading rate effect on kinetics, performance and stability. <i>Journal of Environmental Management</i> , 2018, 214, 23-35.	3.8	54
16	A comprehensive comparison between halophilic granular and flocculent sludge in withstanding short and long-term salinity fluctuations. <i>Journal of Water Process Engineering</i> , 2018, 22, 265-275.	2.6	19
17	Occurrence of illicit drugs in two wastewater treatment plants in the South of Italy. <i>Chemosphere</i> , 2018, 198, 377-385.	4.2	33
18	Shortcut nitrification-denitrification by means of autochthonous halophilic biomass in an SBR treating fish-canning wastewater. <i>Journal of Environmental Management</i> , 2018, 208, 142-148.	3.8	27

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19	Biological minimization of excess sludge in a membrane bioreactor: Effect of plant configuration on sludge production, nutrient removal efficiency and membrane fouling tendency. <i>Bioresource Technology</i> , 2018, 259, 146-155.	4.8	38
20	Aerobic granular sludge treating shipboard slop: Analysis of total petroleum hydrocarbons loading rates on performances and stability. <i>Process Biochemistry</i> , 2018, 65, 164-171.	1.8	16
21	Effect of a co-substrate supply in a MBR treating shipboard slop: Analysis of hydrocarbon removal, biomass activity and membrane fouling tendency. <i>Biochemical Engineering Journal</i> , 2018, 140, 178-188.	1.8	4
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	Sensitivity and uncertainty analysis of an integrated ASM2d MBR model for wastewater treatment. <i>Chemical Engineering Journal</i> , 2018, 351, 579-588.	6.6	28
24	Membrane Bioreactors for wastewater reuse: Respirometric assessment of biomass activity during a two year survey. <i>Journal of Cleaner Production</i> , 2018, 202, 311-320.	4.6	21
25	Physical properties and Extracellular Polymeric Substances pattern of aerobic granular sludge treating hypersaline wastewater. <i>Bioresource Technology</i> , 2017, 229, 152-159.	4.8	101
26	Micropollutants throughout an integrated urban drainage model: Sensitivity and uncertainty analysis. <i>Journal of Hydrology</i> , 2017, 554, 397-405.	2.3	10
27	Treatment of Oily Wastewater with Membrane Bioreactor Systems. <i>Water (Switzerland)</i> , 2017, 9, 412.	1.2	32
28	Simultaneous nitrification-denitrification for the treatment of high-strength nitrogen in hypersaline wastewater by aerobic granular sludge. <i>Water Research</i> , 2016, 88, 329-336.	5.3	119
29	Sequential batch membrane bio-reactor for wastewater treatment: The effect of increased salinity. <i>Bioresource Technology</i> , 2016, 209, 205-212.	4.8	54
30	Membrane bioreactors for treatment of saline wastewater contaminated by hydrocarbons (diesel) Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50	6.6	62
31	Sensitivity and uncertainty analysis of an integrated membrane bioreactor model. <i>Desalination and Water Treatment</i> , 2016, 57, 9531-9548.	1.0	2
32	Spatial diversity of chlorine residual in a drinking water distribution system: application of an integrated fuzzy logic technique. <i>Journal of Hydroinformatics</i> , 2015, 17, 293-306.	1.1	3
33	Radionuclides in wastewater treatment plants: monitoring of Sicilian plants. <i>Water Science and Technology</i> , 2015, 71, 252-258.	1.2	9
34	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
35	Influence of the Height of Municipal Solid Waste Landfill on the Formation of Perched Leachate Zones. <i>Journal of Environmental Engineering, ASCE</i> , 2015, 141, .	0.7	5
36	Cultivation of granular sludge with hypersaline oily wastewater. <i>International Biodeterioration and Biodegradation</i> , 2015, 105, 192-202.	1.9	51

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37	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
38	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
39	Performance of a hybrid activated sludge/biofilm process for wastewater treatment in a cold climate region: Influence of operating conditions. <i>Biochemical Engineering Journal</i> , 2013, 77, 214-219.	1.8	85
40	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
41	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
42	Biological nitrogen and phosphorus removal in membrane bioreactors: model development and parameter estimation. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 499-514.	1.7	27
43	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
44	Role of Modeling Uncertainty in the Estimation of Climate and Socioeconomic Impact on River Water Quality. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012, 138, 479-490.	1.3	8
45	Receiving water body quality assessment: an integrated mathematical approach applied to an Italian case study. <i>Journal of Hydroinformatics</i> , 2012, 14, 30-47.	1.1	14
46	Uncertainty in sewer sediment deposit modelling: Detailed vs simplified modelling approaches. <i>Physics and Chemistry of the Earth</i> , 2012, 42-44, 11-20.	1.2	12
47	Uncertainty assessment of a model for biological nitrogen and phosphorus removal: Application to a large wastewater treatment plant. <i>Physics and Chemistry of the Earth</i> , 2012, 42-44, 61-69.	1.2	15
48	Modeling of perched leachate zone formation in municipal solid waste landfills. <i>Waste Management</i> , 2012, 32, 456-462.	3.7	19
49	Assessment of the integrated urban water quality model complexity through identifiability analysis. <i>Water Research</i> , 2011, 45, 37-50.	5.3	43
50	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
51	Modelling and dynamic simulation of hybrid moving bed biofilm reactors: Model concepts and application to a pilot plant. <i>Biochemical Engineering Journal</i> , 2011, 56, 23-36.	1.8	60
52	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
53	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
54	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

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55	A practical protocol for calibration of nutrient removal wastewater treatment models. Journal of Hydroinformatics, 2011, 13, 575-595.	1.1	58
56	Uncertainty assessment of a membrane bioreactor model using the GLUE methodology. Biochemical Engineering Journal, 2010, 52, 263-275.	1.8	25
57	An urban drainage stormwater quality model: Model development and uncertainty quantification. Journal of Hydrology, 2010, 381, 248-265.	2.3	86
58	Water quality modelling for ephemeral rivers: Model development and parameter assessment. Journal of Hydrology, 2010, 393, 186-196.	2.3	48
59	Start-up with or without inoculum? Analysis of an SMBR pilot plant. Desalination, 2010, 260, 79-90.	4.0	36
60	Receiving water quality assessment: comparison between simplified and detailed integrated urban modelling approaches. Water Science and Technology, 2010, 62, 2301-2312.	1.2	11
61	Comparison between hybrid moving bed biofilm reactor and activated sludge system: a pilot plant experiment. Water Science and Technology, 2010, 61, 891-902.	1.2	64
62	Urban water quality modelling: a parsimonious holistic approach for a complex real case study. Water Science and Technology, 2010, 61, 521-536.	1.2	16
63	A parsimonious dynamic model for river water quality assessment. Water Science and Technology, 2010, 61, 607-618.	1.2	17
64	Emission standards versus immission standards for assessing the impact of urban drainage on ephemeral receiving water bodies. Water Science and Technology, 2010, 61, 1617-1629.	1.2	13
65	The influence of rainfall time resolution for urban water quality modelling. Water Science and Technology, 2010, 61, 2381-2390.	1.2	6
66	A hydrodynamic water quality model for propagation of pollutants in rivers. Water Science and Technology, 2010, 62, 288-299.	1.2	12
67	Quantification of kinetic parameters for heterotrophic bacteria via respirometry in a hybrid reactor. Water Science and Technology, 2010, 61, 1757-1766.	1.2	49
68	Urban Storm-Water Quality Management: Centralized versus Source Control. Journal of Water Resources Planning and Management - ASCE, 2010, 136, 268-278.	1.3	56
69	Hybrid moving bed biofilm reactors: an effective solution for upgrading a large wastewater treatment plant. Water Science and Technology, 2009, 60, 1103-1116.	1.2	45
70	Quantification of diffuse and concentrated pollutant loads at the watershed-scale: an Italian case study. Water Science and Technology, 2009, 59, 2125-2135.	1.2	18
71	Stormwater infiltration trenches: a conceptual modelling approach. Water Science and Technology, 2009, 60, 185-199.	1.2	28
72	Separate and combined sewer systems: a long-term modelling approach. Water Science and Technology, 2009, 60, 555-565.	1.2	46

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73	Uncertainty assessment of an integrated urban drainage model. Journal of Hydrology, 2009, 373, 392-404.	2.3	51
74	Urban runoff modelling uncertainty: Comparison among Bayesian and pseudo-Bayesian methods. Environmental Modelling and Software, 2009, 24, 1100-1111.	1.9	82
75	Assessment of data availability influence on integrated urban drainage modelling uncertainty. Environmental Modelling and Software, 2009, 24, 1171-1181.	1.9	36
76	Identifiability analysis for receiving water body quality modelling. Environmental Modelling and Software, 2009, 24, 54-62.	1.9	48
77	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
78	Uncertainty in urban stormwater quality modelling: The effect of acceptability threshold in the GLUE methodology. Water Research, 2008, 42, 2061-2072.	5.3	107
79	Simulation of the operation of detention tanks. Water Research, 2006, 40, 83-90.	5.3	43
80	Particle size distribution and biomass growth in a submerged membrane bioreactor. Desalination, 2006, 199, 493-495.	4.0	15
81	The role of fouling mechanisms in a submerged membrane bioreactor during the start-up. Desalination, 2006, 200, 722-724.	4.0	4
82	Foaming Estimation Tests in Activated Sludge Systems. Clean - Soil, Air, Water, 2005, 33, 240-246.	0.8	13
83	Wastewater Reuse Effects on Soil Hydraulic Conductivity. Journal of Irrigation and Drainage Engineering - ASCE, 2004, 130, 476-484.	0.6	53