Vincenzo Belgiorno

List of Publications by Year
in descending order

91 papers	4,284 citations	81900 39 h-index	118850 62 g-index
103 all docs	103 docs citations	103 times ranked	4991 citing authors

#	Article	IF	Citations
1	Self-forming Dynamic Membranes for Wastewater Treatment. Separation and Purification Reviews, 2022, 51, 195-211.	5.5	9
2	Innovative encapsulated self-forming dynamic bio-membrane bioreactor (ESFDMBR) for efficient wastewater treatment and fouling control. Science of the Total Environment, 2022, 805, 150296.	8.0	9
3	Factors influencing pressure-driven membrane-assisted volatile fatty acids recovery and purification-A review. Science of the Total Environment, 2022, 817, 152993.	8.0	28
4	An integrated algal membrane photobioreactor as a green-transition technology for the carbon capture and utilization. Journal of Environmental Chemical Engineering, 2022, 10, 107344.	6.7	13
5	Double-stage membrane-assisted anaerobic digestion process intensification for production and recovery of volatile fatty acids from food waste. Science of the Total Environment, 2022, 825, 154084.	8.0	19
6	One-Step Fabrication of Novel Polyethersulfone-Based Composite Electrospun Nanofiber Membranes for Food Industry Wastewater Treatment. Membranes, 2022, 12, 413.	3.0	23
7	Press-extrusion pretreatment of the organic fraction of municipal solid waste for enhanced methane production. Journal of Material Cycles and Waste Management, 2021, 23, 130-138.	3.0	10
8	Indoor versus outdoor transmission of SARS-COV-2: environmental factors in virus spread and underestimated sources of risk. Euro-Mediterranean Journal for Environmental Integration, 2021, 6, 30.	1.3	42
9	Environmental Odour Nuisance Assessment in Urbanized Area: Analysis and Comparison of Different and Integrated Approaches. Atmosphere, 2021, 12, 690.	2.3	7
10	Anaerobic digestion of mechanically sorted organic waste: The influence of storage time on the energetic potential. Sustainable Chemistry and Pharmacy, 2021, 20, 100373.	3.3	3
11	Innovative membrane photobioreactor for sustainable CO2 capture and utilization. Chemosphere, 2021, 273, 129682.	8.2	39
12	Optimization of Classification Prediction Performances of an Instrumental Odour Monitoring System by Using Temperature Correction Approach. Chemosensors, 2021, 9, 147.	3.6	10
13	Environmental Odour Quantification by IOMS: Parametric vs. Non-Parametric Prediction Techniques. Chemosensors, 2021, 9, 183.	3.6	2
14	Coronavirus in water media: Analysis, fate, disinfection and epidemiological applications. Journal of Hazardous Materials, 2021, 415, 125580.	12.4	50
15	Wastewater treatment and fouling control in an electro algae-activated sludge membrane bioreactor. Science of the Total Environment, 2021, 786, 147475.	8.0	40
16	Advances in technological control of greenhouse gas emissions from wastewater in the context of circular economy. Science of the Total Environment, 2021, 792, 148479.	8.0	54
17	Instrumental Odour Monitoring System Classification Performance Optimization by Analysis of Different Pattern-Recognition and Feature Extraction Techniques. Sensors, 2021, 21, 114.	3.8	7
18	Sustainable Treatment of Food Industry Wastewater Using Membrane Technology: A Short Review. Water (Switzerland), 2021, 13, 3450.	2.7	18

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19	Full-Scale Odor Abatement Technologies in Wastewater Treatment Plants (WWTPs): A Review. Water (Switzerland), 2021, 13, 3503.	2.7	11
20	Formic acid pretreatment for enhanced production of bioenergy and biochemicals from organic solid waste. Biomass and Bioenergy, 2020, 133, 105455.	5.7	18
21	Efficient and sustainable treatment of tannery wastewater by a sequential electrocoagulation-UV photolytic process. Journal of Water Process Engineering, 2020, 38, 101642.	5.6	27
22	Viruses in wastewater: occurrence, abundance and detection methods. Science of the Total Environment, 2020, 745, 140910.	8.0	170
23	A critical review on nanomaterials membrane bioreactor (NMs-MBR) for wastewater treatment. Npj Clean Water, 2020, 3, .	8.0	68
24	Advanced membrane bioreactors for emerging contaminant removal and quorum sensing control. , 2020, , 117-147.		3
25	The valorisation of residual waste bales by urban mining. Environmental Science and Pollution Research, 2020, 27, 24004-24012.	5.3	1
26	Removal of contaminants of emerging concern from real wastewater by an innovative hybrid membrane process â€“ UltraSound, Adsorption, and Membrane ultrafiltration (USAMeÂ®). Ultrasonics Sonochemistry, 2020, 68, 105237.	8.2	52
27	Influence of Membrane Flux, Ultrasonic Frequency and Recycle Ratio in the Hybrid Process USAMe. Advances in Science, Technology and Innovation, 2020, , 133-135.	0.4	0
28	OZONE PRETREATMENT FOR THE ANAEROBIC DIGESTION OF ORGANIC SOLID WASTE. Detritus, 2020, , 51-56.	0.9	2
29	Applicability of the electrocoagulation process in treating real municipal wastewater containing pharmaceutical active compounds. Journal of Hazardous Materials, 2019, 361, 367-373.	12.4	76
30	Are pharmaceuticals removal and membrane fouling in electromembrane bioreactor affected by current density?. Science of the Total Environment, 2019, 692, 732-740.	8.0	40
31	Comparative evaluation of a biotrickling filter and a tubular photobioreactor for the continuous abatement of toluene. Journal of Hazardous Materials, 2019, 380, 120860.	12.4	31
32	Environmental odour management by artificial neural network â€“ A review. Environment International, 2019, 133, 105189.	10.0	67
33	WEEE Treatment in Developing Countries: Environmental Pollution and Health Consequencesâ€”An Overview. International Journal of Environmental Research and Public Health, 2019, 16, 1595.	2.6	63
34	Recovery opportunities of valuable and critical elements from WEEE treatment residues by hydrometallurgical processes. Environmental Science and Pollution Research, 2019, 26, 19897-19905.	5.3	25
35	A relative risk assessment of the open burning of WEEE. Environmental Science and Pollution Research, 2019, 26, 11042-11052.	5.3	49
36	The sustainable recovery of the organic fraction of municipal solid waste by integrated ozonation and anaerobic digestion. Resources, Conservation and Recycling, 2019, 141, 390-397.	10.8	27

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37	The evolution of compost stability and maturity during the full-scale treatment of the organic fraction of municipal solid waste. Journal of Environmental Management, 2019, 232, 264-270.	7.8	56
38	Control of emerging contaminants by the combination of electrochemical processes and membrane bioreactors. Environmental Science and Pollution Research, 2019, 26, 1103-1112.	5.3	68
39	Bioleaching of metals from WEEE shredding dust. Journal of Environmental Management, 2018, 210, 180-190.	7.8	89
40	Wastewater treatment by membrane ultrafiltration enhanced with ultrasound: Effect of membrane flux and ultrasonic frequency. Ultrasonics, 2018, 83, 42-47.	3.9	51
41	A device-specific prioritization strategy based on the potential for harm to human health in informal WEEE recycling. Environmental Science and Pollution Research, 2018, 25, 683-692.	5.3	21
42	Chemical characterization and toxicity assessment for the sustainable management of end of life cathode ray tubes. Journal of Material Cycles and Waste Management, 2018, 20, 1188-1198.	3.0	7
43	Fouling Mitigation and Wastewater Treatment Enhancement through the Application of an Electro Moving Bed Membrane Bioreactor (eMB-MBR). Membranes, 2018, 8, 116.	3.0	7
44	Control of quorum sensing signals and emerging contaminants in electrochemical membrane bioreactors. Bioresource Technology, 2018, 269, 89-95.	9.6	29
45	Sustainability of Medical Waste Management in Different Sized Health Care Facilities. Waste and Biomass Valorization, 2017, 8, 1819-1827.	3.4	13
46	Removal of emerging contaminant and fouling control in membraneÂbioreactors by combined ozonation and sonolysis. International Biodeterioration and Biodegradation, 2017, 119, 577-586.	3.9	58
47	Application of electrochemical processes to membrane bioreactors for improving nutrient removal and fouling control. Environmental Science and Pollution Research, 2017, 24, 321-333.	5.3	53
48	Removal of Pharmaceuticals from Wastewater by Intermittent Electrocoagulation. Water (Switzerland), 2017, 9, 85.	2.7	61
49	Combination of Electrochemical Processes with Membrane Bioreactors for Wastewater Treatment and Fouling Control: A Review. Frontiers in Environmental Science, 2016, 4, .	3.3	61
50	Organic fraction of municipal solid waste from mechanical selection: biological stabilization and recovery options. Environmental Science and Pollution Research, 2016, 23, 1565-1575.	5.3	19
51	Control of fouling in MBRs through nanospheres addition. Desalination and Water Treatment, 2015, 55, 702-711.	1.0	6
52	Combined Biogas and Bioethanol Production: Opportunities and Challenges for Industrial Application. Energies, 2015, 8, 8121-8144.	3.1	76
53	Control of fouling formation in membrane ultrafiltration by ultrasound irradiation. Environmental Technology (United Kingdom), 2015, 36, 1299-1307.	2.2	14
54	Enhanced ozonation of selected pharmaceutical compounds by sonolysis. Environmental Technology (United Kingdom), 2015, 36, 1876-1883.	2.2	36

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55	Enhanced anaerobic digestion by ultrasonic pretreatment of organic residues for energy production. Journal of Cleaner Production, 2014, 74, 119-124.	9.3	64
56	Pretreatment methods to improve anaerobic biodegradability of organic municipal solid waste fractions. Chemical Engineering Journal, 2014, 240, 24-37.	12.7	225
57	Removal of emerging contaminants by simultaneous application of membrane ultrafiltration, activated carbon adsorption, and ultrasound irradiation. Journal of Hazardous Materials, 2014, 264, 342-349.	12.4	142
58	Sonolysis and ozonation as pretreatment for anaerobic digestion of solid organic waste. Ultrasonics Sonochemistry, 2013, 20, 931-936.	8.2	109
59	Enhanced drinking water supply through harvested rainwater treatment. Journal of Hydrology, 2013, 498, 287-291.	5.4	44
60	Ecological status of rivers in preserved areas: Effects of meteorological parameters. Ecological Engineering, 2013, 53, 173-182.	3.6	14
61	Degradation of Antibiotics in Wastewater during Sonolysis, Ozonation, and Their Simultaneous Application: Operating Conditions Effects and Processes Evaluation. International Journal of Photoenergy, 2012, 2012, 1-7.	2.5	34
62	Ozone oxidation and aerobic biodegradation with spent mushroom compost for detoxification and benzo(a)pyrene removal from contaminated soil. Chemosphere, 2012, 87, 595-601.	8.2	24
63	Enhanced biogas production from anaerobic codigestion of solid waste by sonolysis. Ultrasonics Sonochemistry, 2012, 19, 596-600.	8.2	88
64	Alternative stabilisation options of mechanically sorted organic fraction from municipal solid waste prior to landfill disposal. International Journal of Environmental Engineering, 2011, 3, 318.	0.1	6
65	Hydrogen sulphide removal from landfill gas. Chemical Engineering Research and Design, 2010, 88, 420-424.	5.6	49
66	Olive Mill and Winery Wastewaters Pre-Treatment by Coagulation with Chitosan. Separation Science and Technology, 2010, 45, 2447-2452.	2.5	35
67	Fenton oxidation treatment of tannery wastewater and tanning agents: synthetic tannin and nonylphenol ethoxylate based degreasing agent. Desalination and Water Treatment, 2010, 23, 173-180.	1.0	35
68	Influence of ultrasound on phenol removal by adsorption on granular activated carbon. Desalination and Water Treatment, 2010, 23, 181-186.	1.0	18
69	Degradation of diclofenac during sonolysis, ozonation and their simultaneous application. Ultrasonics Sonochemistry, 2009, 16, 790-794.	8.2	96
70	Effect of sonolysis on waste activated sludge solubilisation and anaerobic biodegradability. Desalination, 2009, 249, 762-767.	8.2	42
71	Advanced oxidation of catechol: A comparison among photocatalysis, Fenton and photo-Fenton processes. Desalination, 2009, 249, 878-883.	8.2	73
72	Pre-treatment of olive mill wastewater by chitosan coagulation and advanced oxidation processes. Separation and Purification Technology, 2008, 63, 648-653.	7.9	106

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73	Characterization, Fluxes and Toxicity of Leather Tanning Bath Chemicals in a Large Tanning District Area (IT). Water, Air and Soil Pollution, 2008, 8, 529-542.	0.8	37
74	Coagulation/chlorination of surface water: A comparison between chitosan and metal salts. Separation and Purification Technology, 2008, 62, 79-85.	7.9	80
75	Multi-parametric water quality monitoring approach according to the WFD application in Evros trans-boundary river basin: priority pollutants. Desalination, 2008, 226, 306-320.	8.2	22
76	Application of photocatalysis as a post treatment method of a heterotrophicâ€“autotrophic denitrification reactor effluent. Chemosphere, 2008, 72, 1706-1711.	8.2	16
77	Sustainable wastewater management in developing countries: are constructed wetlands a feasible approach for wastewater reuse?. International Journal of Environment and Pollution, 2008, 33, 82.	0.2	7
78	Fentonâ€™s oxidation of various-based tanning materials. Desalination, 2007, 211, 10-21.	8.2	46
79	Overview of in-situ applicable nitrate removal processes. Desalination, 2007, 204, 46-62.	8.2	238
80	DBPs formation and toxicity monitoring in different origin water treated by ozone and alum/PAC coagulation. Desalination, 2007, 210, 31-43.	8.2	38
81	Behaviour of natural organic mater during ultrasonic irradiation. Desalination, 2007, 210, 175-182.	8.2	79
82	Heterotrophic/autotrophic denitrification (HAD) of drinking water: prospective use for permeable reactive barrier. Desalination, 2007, 210, 194-204.	8.2	55
83	Review on endocrine disrupting-emerging compounds in urban wastewater: occurrence and removal by photocatalysis and ultrasonic irradiation for wastewater reuse. Desalination, 2007, 215, 166-176.	8.2	239
84	Optimization of sampling frequency for river water quality assessment according to Italian implementation of the EU Water Framework Directive. Environmental Science and Policy, 2007, 10, 243-249.	4.9	36
85	Potential reuse of a leather tanning and an urban wastewater treatment plant effluent in Italy. International Journal of Environment and Pollution, 2006, 28, 100.	0.2	5
86	An heterotrophic/autotrophic denitrification (HAD) approach for nitrate removal from drinking water. Process Biochemistry, 2006, 41, 1022-1028.	3.7	71
87	Treatment of reactive dyes and textile finishing wastewater using Fenton's oxidation for reuse. International Journal of Environment and Pollution, 2005, 23, 248.	0.2	15
88	Sensitive Parameters In Predicting Exposure Contaminants Concentration In A Risk Assessment Process. Environmental Monitoring and Assessment, 2005, 111, 133-148.	2.7	4
89	Toxicity of leather tanning wastewater effluents in sea urchin early development and in marine microalgae. Chemosphere, 2005, 61, 208-217.	8.2	64
90	Acute toxicity removal in textile finishing wastewater by Fenton's oxidation, ozone and coagulationâ€“flocculation processes. Water Research, 2005, 39, 1147-1153.	11.3	166

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91	Combined Carbonaceous Removal and Nitrification with Biological Aerated Filters. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2003, 38, 2147-2156.	1.7	7