

Maria Concetta Tomei

List of Publications by Year in descending order

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73
papers

2,553
citations

201674

27
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197818

49
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74
all docs

74
docs citations

74
times ranked

2936
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of secondary wastewater treatment methods for the removal of contaminants of emerging concern implicated in crop uptake and antibiotic resistance spread: A review. <i>Science of the Total Environment</i> , 2019, 648, 1052-1081.	8.0	328
2	“Microthrix parvicella”, a filamentous bacterium causing bulking and foaming in activated sludge systems: a review of current knowledge. <i>FEMS Microbiology Reviews</i> , 2005, 29, 49-64.	8.6	176
3	4-nitrophenol biodegradation in a sequencing batch reactor: kinetic study and effect of filling time. <i>Water Research</i> , 2004, 38, 375-384.	11.3	109
4	Toxicity assessment of common xenobiotic compounds on municipal activated sludge: comparison between respirometry and Microtox®. <i>Water Research</i> , 2004, 38, 2103-2110.	11.3	106
5	Ex Situ Bioremediation of Contaminated Soils: An Overview of Conventional and Innovative Technologies. <i>Critical Reviews in Environmental Science and Technology</i> , 2013, 43, 2107-2139.	12.8	105
6	Kinetics of 4-nitrophenol biodegradation in a sequencing batch reactor. <i>Water Research</i> , 2003, 37, 3803-3814.	11.3	102
7	Enhancing anaerobic treatment of domestic wastewater: State of the art, innovative technologies and future perspectives. <i>Science of the Total Environment</i> , 2018, 635, 78-91.	8.0	101
8	Modeling of Anaerobic Digestion of Sludge. <i>Critical Reviews in Environmental Science and Technology</i> , 2009, 39, 1003-1051.	12.8	79
9	Analysing performance of real textile wastewater bio-decolourization under different reaction environments. <i>Journal of Cleaner Production</i> , 2016, 129, 468-477.	9.3	72
10	Anaerobic degradation kinetics of particulate organic matter in untreated and sonicated sewage sludge: Role of the inoculum. <i>Bioresource Technology</i> , 2008, 99, 6119-6126.	9.6	64
11	Effects of dissolved oxygen and diffusion resistances on nitrification kinetics. <i>Water Research</i> , 1992, 26, 1099-1104.	11.3	63
12	4-Nitrophenol Biodegradation in a Sequencing Batch Reactor Operating with Aerobic/Anoxic Cycles. <i>Environmental Science & Technology</i> , 2005, 39, 5059-5065.	10.0	61
13	Treatment of synthetic tannery wastewater in a continuous two-phase partitioning bioreactor: Biodegradation of the organic fraction and chromium separation. <i>Journal of Cleaner Production</i> , 2017, 152, 321-329.	9.3	61
14	Techno-economic and environmental assessment of upgrading alternatives for sludge stabilization in municipal wastewater treatment plants. <i>Journal of Cleaner Production</i> , 2016, 112, 3106-3115.	9.3	54
15	Overcoming substrate inhibition during biological treatment of monoaromatics: recent advances in bioprocess design. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 1589-1608.	3.6	53
16	Performance of sequential anaerobic/aerobic digestion applied to municipal sewage sludge. <i>Journal of Environmental Management</i> , 2011, 92, 1867-1873.	7.8	47
17	Holistic Approach to Phosphorus Recovery from Urban Wastewater: Enhanced Biological Removal Combined with Precipitation. <i>Sustainability</i> , 2020, 12, 575.	3.2	41
18	Anaerobic biodegradation of phenol in wastewater treatment: achievements and limits. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 2195-2224.	3.6	41

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19	Biodegradation of 4-nitrophenol in a two-phase sequencing batch reactor: concept demonstration, kinetics and modelling. <i>Applied Microbiology and Biotechnology</i> , 2008, 80, 1105-1112.	3.6	40
20	Two-Phase Partitioning Bioreactors Operating with Polymers Applied to the Removal of Substituted Phenols. <i>Environmental Science & Technology</i> , 2010, 44, 7254-7259.	10.0	38
21	Treatment of substituted phenol mixtures in single phase and two-phase solid-liquid partitioning bioreactors. <i>Journal of Hazardous Materials</i> , 2011, 191, 190-195.	12.4	36
22	Sequential anaerobic-aerobic decolourization of a real textile wastewater in a two-phase partitioning bioreactor. <i>Science of the Total Environment</i> , 2016, 573, 585-593.	8.0	34
23	Methodology for technical and economic assessment of advanced routes for sludge processing and disposal. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7190-7202.	5.3	33
24	Biodegradation of phenolic mixtures in a sequencing batch reactor. <i>Environmental Science and Pollution Research</i> , 2008, 15, 188-195.	5.3	30
25	Quality assessment of digested sludges produced by advanced stabilization processes. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7216-7235.	5.3	30
26	Ex situ remediation of polluted soils by absorptive polymers, and a comparison of slurry and two-phase partitioning bioreactors for ultimate contaminant degradation. <i>Journal of Hazardous Materials</i> , 2013, 262, 31-37.	12.4	29
27	Hygienization performances of innovative sludge treatment solutions to assure safe land spreading. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7237-7247.	5.3	29
28	Biodegradation of 4-Nitrophenol in a Two-Phase System Operating with Polymers as the Partitioning Phase. <i>Environmental Science & Technology</i> , 2009, 43, 7105-7110.	10.0	28
29	Microbial and kinetic characterization of pure and mixed cultures aerobically degrading 4-nitrophenol. <i>Chemosphere</i> , 2006, 63, 1801-1808.	8.2	27
30	On the applicability of a hybrid bioreactor operated with polymeric tubing for the biological treatment of saline wastewater. <i>Science of the Total Environment</i> , 2017, 599-600, 1056-1063.	8.0	26
31	Pentachlorophenol biodegradation in two-phase bioreactors operated with absorptive polymers: Box-Behnken experimental design and optimization by response surface methodology. <i>Chemical Engineering Research and Design</i> , 2019, 131, 105-115.	5.6	24
32	Pentachlorophenol aerobic removal in a sequential reactor: start-up procedure and kinetic study. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 327-335.	2.2	23
33	Two-stage anaerobic and post-aerobic mesophilic digestion of sewage sludge: Analysis of process performance and hygienization potential. <i>Science of the Total Environment</i> , 2016, 545-546, 453-464.	8.0	22
34	Biological treatment of hypersaline wastewater in a continuous two-phase partitioning bioreactor: Analysis of the response to step, ramp and impulse loadings and applicability evaluation. <i>Journal of Cleaner Production</i> , 2018, 191, 67-77.	9.3	22
35	Uptake/release of organic contaminants by microplastics: A critical review of influencing factors, mechanistic modeling, and thermodynamic prediction methods. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1356-1400.	12.8	22
36	Post-aerobic treatment to enhance the removal of conventional and emerging micropollutants in the digestion of waste sludge. <i>Waste Management</i> , 2019, 96, 36-46.	7.4	21

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37	Sequential anaerobic/aerobic digestion of waste activated sludge: analysis of the process performance and kinetic study. <i>New Biotechnology</i> , 2011, 29, 17-22.	4.4	20
38	Sequential anaerobic/anaerobic digestion for enhanced sludge stabilization: comparison of the process performance for mixed and waste sludge. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7271-7279.	5.3	20
39	Towards a continuous two-phase partitioning bioreactor for xenobiotic removal. <i>Journal of Hazardous Materials</i> , 2016, 317, 403-415.	12.4	20
40	Monitoring toxicity in anaerobic digesters by the rantox biosensor: Theoretical background. , 1997, 55, 33-40.		19
41	2,4-Dichlorophenol removal in a solid-liquid two phase partitioning bioreactor (TPPB): kinetics of absorption, desorption and biodegradation. <i>New Biotechnology</i> , 2012, 30, 44-50.	4.4	19
42	<i>Ex situ</i> bioremediation of chlorophenol contaminated soil: comparison of slurry and solid-phase bioreactors with the two-step polymer extraction-bioregeneration process. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1577-1584.	3.2	19
43	Two-phase reactors applied to the removal of substituted phenols: comparison between liquid-liquid and liquid-solid systems. <i>Water Science and Technology</i> , 2010, 62, 776-782.	2.5	17
44	The use of used automobile tyres in a partitioning bioreactor for the biodegradation of xenobiotic mixtures. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 75-81.	2.2	17
45	A novel continuous two-phase partitioning bioreactor operated with polymeric tubing: Performance validation for enhanced biological removal of toxic substrates. <i>Journal of Environmental Management</i> , 2017, 187, 265-272.	7.8	17
46	Inhibiting effects of chloroform on anaerobic microbial consortia as monitored by the rantox biosensor. <i>Water Research</i> , 2001, 35, 1179-1190.	11.3	16
47	Rapid and effective decontamination of chlorophenol-contaminated soil by sorption into commercial polymers: Concept demonstration and process modeling. <i>Journal of Environmental Management</i> , 2015, 150, 81-91.	7.8	16
48	Dissolved methane in anaerobic effluents: A review on sustainable strategies for optimization of energy recovery or internal process reuse. <i>Journal of Cleaner Production</i> , 2021, 317, 128359.	9.3	16
49	Feasibility of operating a solid-liquid bioreactor with used automobile tires as the sequestering phase for the biodegradation of inhibitory compounds. <i>Journal of Environmental Management</i> , 2013, 125, 7-11.	7.8	15
50	Method for technical, economic and environmental assessment of advanced sludge processing routes. <i>Water Science and Technology</i> , 2014, 69, 2407-2416.	2.5	14
51	Regeneration strategies of polymers employed in ex-situ remediation of contaminated soil: Bioregeneration versus solvent extraction. <i>Journal of Environmental Management</i> , 2015, 159, 169-177.	7.8	13
52	Anaerobic-aerobic sequential treatment: Temperature optimization and cost implications. <i>Journal of the Air and Waste Management Association</i> , 2019, 69, 1170-1181.	1.9	10
53	Innovative technologies to remove alkylphenols from wastewater: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 2597-2628.	16.2	10
54	Analysis of the performance and criteria for rational design of a sequencing batch reactor for xenobiotic removal. <i>Chemical Engineering Journal</i> , 2014, 235, 167-175.	12.7	9

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55	Advanced anaerobic processes to enhance waste activated sludge stabilization. <i>Water Science and Technology</i> , 2014, 69, 1728-1734.	2.5	9
56	Anaerobic phenol biodegradation: kinetic study and microbial community shifts under high-concentration dynamic loading. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 6825-6838.	3.6	9
57	Extractive polymeric membrane bioreactors for industrial wastewater treatment: Theory and practice. <i>Chemical Engineering Research and Design</i> , 2022, 162, 169-186.	5.6	9
58	Solid-liquid two-phase partitioning bioreactors (TPPBs) operated with waste polymers. Case study: 2,4-dichlorophenol biodegradation with used automobile tires as the partitioning phase. <i>Biotechnology Letters</i> , 2012, 34, 2037-2042.	2.2	8
59	Post-aerobic digestion of waste sludge: performance analysis and modelling of nitrogen fate under alternating aeration. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 21-30.	3.5	8
60	Extractive membrane bioreactor to detoxify industrial/hazardous landfill leachate and facilitate resource recovery. <i>Science of the Total Environment</i> , 2022, 806, 150892.	8.0	7
61	Enhancing biodegradation of toxic industrial wastewaters in a continuous two-phase partitioning bioreactor operated with effluent recycle. <i>Chemical Engineering Research and Design</i> , 2019, 124, 172-180.	5.6	6
62	Bacterial growth kinetics estimation by fluorescence in situ hybridization and spectrofluorometric quantification. <i>Letters in Applied Microbiology</i> , 2007, 44, 643-648.	2.2	4
63	Xenobiotic removal from wastewater in a two-phase partitioning bioreactor: Process modelling and identification of operational strategies. <i>Chemical Engineering Journal</i> , 2016, 296, 428-436.	12.7	4
64	Solid-liquid partitioning bioreactors for industrial wastewater treatment. <i>Advances in Chemical Engineering</i> , 2019, , 111-150.	0.9	4
65	Treatment options for tannery wastewater II: integrated chemical and biological oxidation. <i>Annali Di Chimica</i> , 2002, 92, 531-9.	0.6	4
66	Removal of xenobiotics in a two phase sequencing batch reactor: kinetics and modelling. <i>Water Science and Technology</i> , 2008, 58, 385-390.	2.5	3
67	Advanced Treatments for the Removal of Alkylphenols and Alkylphenol Polyethoxylates from Wastewater. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 305-398.	0.5	3
68	Enhanced Biological Wastewater Treatment to Produce Effluents Suitable for Reuse. <i>Handbook of Environmental Chemistry</i> , 2015, , 79-105.	0.4	2
69	Kinetic study of two-step mesophilic anaerobic-aerobic waste sludge digestion: Focus on biopolymer fate. <i>Chemical Engineering Research and Design</i> , 2018, 118, 106-114.	5.6	2
70	Polymer extraction and ex situ biodegradation of xenobiotic contaminated soil: Modelling of the process concept. <i>Journal of Environmental Management</i> , 2019, 230, 63-74.	7.8	2
71	Fate and Removal of Pharmaceuticals in CAS for Water and Sewage Sludge Reuse. <i>Handbook of Environmental Chemistry</i> , 2020, , 23-51.	0.4	2
72	Removal of Xenobiotics from Wastewater in Sequencing Batch Reactors: Conventional and Two-Phase Configurations. <i>Environmental Pollution</i> , 2010, , 355-374.	0.4	2

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73	Self-regenerating tubing bioreactor for removal of toxic substrates: Operational strategies in response to severe dynamic loading conditions. Science of the Total Environment, 2020, 723, 138019.	8.0	1