Mauro Majone

List of Publications by Year
in descending order

65	2,759	136885	182361
papers	citations	32 h-index	51 g-index

67	67	67	2571
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A research challenge vision regarding management of agricultural waste in a circular bio-based economy. Critical Reviews in Environmental Science and Technology, 2018, 48, 614-654.	6.6	189
2	Carbon recovery from wastewater through bioconversion into biodegradable polymers. New Biotechnology, 2017, 37, 9-23.	2.4	182
3	Carbon and nitrogen removal and enhanced methane production in a microbial electrolysis cell. Bioresource Technology, 2013, 130, 366-371.	4.8	132
4	An urban biorefinery for food waste and biological sludge conversion into polyhydroxyalkanoates and biogas. Water Research, 2020, 170, 115371.	5.3	112
5	Polyhydroxyalkanoate (PHA) storage within a mixed-culture biomass with simultaneous growth as a function of accumulation substrate nitrogen and phosphorus levels. Water Research, 2015, 77, 49-63.	5.3	100
6	Pilot-Scale Polyhydroxyalkanoate Production from Combined Treatment of Organic Fraction of Municipal Solid Waste and Sewage Sludge. Industrial & Engineering Chemistry Research, 2019, 58, 12149-12158.	1.8	100
7	Characterization of polyhydroxyalkanoates synthesized from microbial mixed cultures and of their nanobiocomposites with bacterial cellulose nanowhiskers. New Biotechnology, 2014, 31, 364-376.	2.4	97
8	In situ groundwater and sediment bioremediation: barriers and perspectives at European contaminated sites. New Biotechnology, 2015, 32, 133-146.	2.4	95
9	Storage of biodegradable polymers by an enriched microbial community in a sequencing batch reactor operated at high organic load rate. Journal of Chemical Technology and Biotechnology, 2005, 80, 1306-1318.	1.6	91
10	Enhanced anaerobic bioremediation of chlorinated solvents: environmental factors influencing microbial activity and their relevance under field conditions. Journal of Chemical Technology and Biotechnology, 2006, 81, 1463-1474.	1.6	87
11	Polyhydroxyalkanoates production with mixed microbial cultures: from culture selection to polymer recovery in a high-rate continuous process. New Biotechnology, 2014, 31, 289-296.	2.4	74
12	Organic Fraction of Municipal Solid Waste Recovery by Conversion into Added-Value Polyhydroxyalkanoates and Biogas. ACS Sustainable Chemistry and Engineering, 2018, 6, 16375-16385.	3.2	73
13	Optimization of urban waste fermentation for volatile fatty acids production. Waste Management, 2019, 92, 21-29.	3.7	71
14	Sequencing Batch Reactor:Â Influence of Periodic Operation on Performance of Activated Sludges in Biological Wastewater Treatment. Industrial & Engineering Chemistry Research, 2001, 40, 5110-5119.	1.8	67
15	Feed frequency in a Sequencing Batch Reactor strongly affects the production of polyhydroxyalkanoates (PHAs) from volatile fatty acids. New Biotechnology, 2014, 31, 264-275.	2.4	66
16	Impact of nitrogen feeding regulation on polyhydroxyalkanoates production by mixed microbial cultures. New Biotechnology, 2017, 37, 90-98.	2.4	66
17	Bioelectrochemical approach for reductive and oxidative dechlorination of chlorinated aliphatic hydrocarbons (CAHs). Chemosphere, 2017, 169, 351-360.	4.2	62
18	Effect of the organic loading rate on the production of polyhydroxyalkanoates in a multi-stage process aimed at the valorization of olive oil mill wastewater. International Journal of Biological Macromolecules, 2014, 71, 34-41.	3.6	56

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19	Anion vs cation exchange membrane strongly affect mechanisms and yield of CO2 fixation in a microbial electrolysis cell. Chemical Engineering Journal, 2016, 304, 10-19.	6.6	54
20	High-rate anaerobic treatment of Fischerâ€“Tropsch wastewater in a packed-bed biofilm reactor. Water Research, 2010, 44, 2745-2752.	5.3	53
21	Influence of the set anode potential on the performance and internal energy losses of a methane-producing microbial electrolysis cell. Bioelectrochemistry, 2016, 107, 1-6.	2.4	50
22	High rate selection of PHA accumulating mixed cultures in sequencing batch reactors with uncoupled carbon and nitrogen feeding. New Biotechnology, 2020, 56, 140-148.	2.4	44
23	Modeling the Competitive Adsorption of Pb, Cu, Cd, and Ni onto a Natural Heterogeneous Sorbent Material (Italian â€œRed Soilâ€). Industrial & Engineering Chemistry Research, 2004, 43, 5032-5041.	1.8	42
24	Bioelectrochemically-assisted reductive dechlorination of 1,2-dichloroethane by a Dehalococcoides-enriched microbial culture. Bioresource Technology, 2015, 195, 78-82.	4.8	41
25	Kinetic and phylogenetic characterization of an anaerobic dechlorinating microbial community. Microbiology (United Kingdom), 2003, 149, 459-469.	0.7	40
26	Electrochemically Driven Fermentation of Organic Substrates with Undefined Mixed Microbial Cultures. ChemSusChem, 2017, 10, 3091-3097.	3.6	40
27	Biopolymers from Urban Organic Waste: Influence of the Solid Retention Time to Cycle Length Ratio in the Enrichment of a Mixed Microbial Culture (MMC). ACS Sustainable Chemistry and Engineering, 2020, 8, 14531-14539.	3.2	39
28	Adsorption of Lead at Variable pH onto a Natural Porous Medium:Â Modeling of Batch and Column Experiments. Environmental Science & Technology, 1999, 33, 4457-4464.	4.6	37
29	Production of bacterial nanobiocomposites of polyhydroxyalkanoates derived from waste and bacterial nanocellulose by the electrospinning enabling melt compounding method. Journal of Applied Polymer Science, 2016, 133, .	1.3	36
30	Fate of Î²-hexachlorocyclohexane in the mixed microbial cultures (MMCs) three-stage polyhydroxyalkanoates (PHA) production process from cheese whey. Bioresource Technology, 2015, 192, 304-311.	4.8	35
31	Relative contribution of set cathode potential and external mass transport on TCE dechlorination in a continuous-flow bioelectrochemical reactor. Chemosphere, 2015, 136, 72-78.	4.2	34
32	Electro-fermentation and redox mediators enhance glucose conversion into butyric acid with mixed microbial cultures. Bioelectrochemistry, 2019, 130, 107333.	2.4	34
33	Downstream processing and characterization of polyhydroxyalkanoates (PHAs) produced by mixed microbial culture (MMC) and organic urban waste as substrate. Biomass Conversion and Biorefinery, 2021, 11, 693-703.	2.9	34
34	Influence of mediator immobilization on the electrochemically assisted microbial dechlorination of trichloroethene (TCE) and cisâ€dichloroethene (cisâ€DCE). Journal of Chemical Technology and Biotechnology, 2009, 84, 864-870.	1.6	31
35	Characterization of Polyhydroxyalkanoates Produced at Pilot Scale From Different Organic Wastes. Frontiers in Bioengineering and Biotechnology, 2021, 9, 628719.	2.0	31
36	Influence of nitrate and sulfate reduction in the bioelectrochemically assisted dechlorination of cis-DCE. Chemosphere, 2015, 125, 147-154.	4.2	30

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37	Microbiome dynamics and phaC synthase genes selected in a pilot plant producing polyhydroxyalkanoate from the organic fraction of urban waste. Science of the Total Environment, 2019, 689, 765-773.	3.9	27
38	Reductive/Oxidative Sequential Bioelectrochemical Process for Perchloroethylene Removal. Water (Switzerland), 2019, 11, 2579.	1.2	27
39	Influence of hydrogen on the reductive dechlorination of tetrachloroethene (PCE) to ethene in a methanogenic biofilm reactor: role of mass transport phenomena. Journal of Chemical Technology and Biotechnology, 2006, 81, 1520-1529.	1.6	23
40	Effect of periodic feeding on substrate uptake and storage rates by a pure culture of Thiothrix (CT3) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.3	22
41	Impact of fermentation residues on the thermal, structural, and rheological properties of polyhydroxy(butyrateâ€‹coâ€‹valerate) produced from cheese whey and olive oil mill wastewater. Journal of Applied Polymer Science, 2016, 133, .	1.3	22
42	Effect of the temperature in a mixed culture pilot scale aerobic process for food waste and sewage sludge conversion into polyhydroxyalkanoates. Journal of Biotechnology, 2020, 323, 54-61.	1.9	22
43	Start up of biological sequencing batch reactor (SBR) and shortâ€‹term biomass acclimation for polyhydroxyalkanoates production. Journal of Chemical Technology and Biotechnology, 2013, 88, 261-270.	1.6	21
44	Some physiological properties of an Italian isolate of â€œmicrothrix parvicellaâ€• Water Science and Technology, 1998, 37, 1-8.	1.2	20
45	Elemental concentration and migratability in bioplastics derived from organic waste. Chemosphere, 2020, 259, 127472.	4.2	20
46	Perspectives of biofuels production from renewable resources with bioelectrochemical systems. Asia-Pacific Journal of Chemical Engineering, 2012, 7, S263.	0.8	19
47	Equilibrium Modeling of Lead Adsorption onto a â€œRed Soilâ€•as a Function of the Liquid-Phase Composition. Industrial & Engineering Chemistry Research, 2002, 41, 1946-1954.	1.8	13
48	Ammonium Recovery and Biogas Upgrading in a Tubular Micro-Pilot Microbial Electrolysis Cell (MEC). Molecules, 2020, 25, 2723.	1.7	13
49	Theoretical and Experimental Analysis of the Role of Sludge Age on the Removal of Adsorbed Micropollutants in Activated Sludge Processes. Industrial & Engineering Chemistry Research, 2008, 47, 6775-6782.	1.8	10
50	Chromate fate and effect in bioelectrochemical systems for remediation of chlorinated solvents. New Biotechnology, 2021, 60, 27-35.	2.4	10
51	Ethylic Esters as Green Solvents for the Extraction of Intracellular Polyhydroxyalkanoates Produced by Mixed Microbial Culture. Polymers, 2021, 13, 2789.	2.0	10
52	Acclimation Process for Enhancing Polyhydroxyalkanoate Accumulation in Activated-Sludge Biomass. Waste and Biomass Valorization, 2019, 10, 1065-1082.	1.8	9
53	Effects of the Feeding Solution Composition on a Reductive/Oxidative Sequential Bioelectrochemical Process for Perchloroethylene Removal. Processes, 2021, 9, 405.	1.3	9
54	Polychlorinated Biphenyl Profile in Polyhydroxy-alkanoates Synthetized from Urban Organic Wastes. Polymers, 2020, 12, 659.	2.0	8

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55	Control of Sulfate and Nitrate Reduction by Setting Hydraulic Retention Time and Applied Potential on a Membraneless Microbial Electrolysis Cell for Perchloroethylene Removal. ACS Omega, 2021, 6, 25211-25218.	1.6	7
56	Simplified Reactor Design for Mixed Culture-Based Electrofermentation toward Butyric Acid Production. Processes, 2021, 9, 417.	1.3	6
57	Metagenomic Analysis Reveals Microbial Interactions at the Biocathode of a Bioelectrochemical System Capable of Simultaneous Trichloroethylene and Cr(VI) Reduction. Frontiers in Microbiology, 2021, 12, 747670.	1.5	5
58	Identification and Quantification of Polycyclic Aromatic Hydrocarbons in Polyhydroxyalkanoates Produced from Mixed Microbial Cultures and Municipal Organic Wastes at Pilot Scale. Molecules, 2021, 26, 539.	1.7	5
59	Modelling Mixed Microbial Culture Polyhydroxyalkanoate Accumulation Bioprocess towards Novel Methods for Polymer Production Using Dilute Volatile Fatty Acid Rich Feedstocks. Bioengineering, 2022, 9, 125.	1.6	4
60	Autotrophic Acetate Production under Hydrogenophilic and Bioelectrochemical Conditions with a Thermally Treated Mixed Culture. Membranes, 2022, 12, 126.	1.4	1
61	EXPERIMENTAL INVESTIGATION OF TRANSPORT OF STRONGLY RETAINED SPECIES BY SOIL COLUMNS. Water, Air, and Soil Pollution, 1997, 95, 337-351.	1.1	0
62	Editorial. New Biotechnology, 2014, 31, 255-256.	2.4	0
63	Special Issue of New Biotechnology: â€œBiopolymers Eu Symposiumâ€• New Biotechnology, 2017, 37, 1.	2.4	0
64	Effect of culture residence time on substrate uptake and storage by a pure culture of Thiothrix (CT3) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.4	0
65	Special issue in memory of Valter Tandoi (IRSA-CNR) â€“ A life-long commitment to environmental biotechnology. New Biotechnology, 2021, 62, 57-59.	2.4	0