Raul MuÃ±oz

List of Publications by Year
in descending order

283	14,351	17440 63	28297 105
papers	citations	h-index	g-index

292	292	292	8909
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimization of acrylic-styrene latex-based biofilms as a platform for biological indoor air treatment. Chemosphere, 2022, 287, 132182.	8.2	12
2	Biodegradation of bioplastics under aerobic and anaerobic aqueous conditions: Kinetics, carbon fate and particle size effect. Bioresource Technology, 2022, 344, 126265.	9.6	49
3	A state of the art review on the use of fungi in biofiltration to remove volatile hydrophobic pollutants. Reviews in Environmental Science and Biotechnology, 2022, 21, 225-246.	8.1	14
4	Production of (R)-3-hydroxybutyric acid from methane by in vivo depolymerization of polyhydroxybutyrate in Methylocystis parvus OBBP. Bioresource Technology, 2022, 353, 127141.	9.6	6
5	Influence of the hydraulic retention time on the removal of emerging contaminants in an anoxic-aerobic algal-bacterial photobioreactor coupled with anaerobic digestion. Science of the Total Environment, 2022, 827, 154262.	8.0	6
6	Optimization of activated sludge recycling and oxidized ammonium recycling as odour control strategies in wastewater treatment plants. Journal of Water Process Engineering, 2022, 47, 102655.	5.6	2
7	Optimization of nitrogen feeding strategies for improving polyhydroxybutyrate production from biogas by Methylocystis parvus str. OBBP in a stirred tank reactor. Chemosphere, 2022, 299, 134443.	8.2	5
8	A Systematic Study of Ammonia Recovery from Anaerobic Digestate Using Membrane-Based Separation. Membranes, 2022, 12, 19.	3.0	7
9	Photosynthetic treatment of piggery wastewater in sequential purple phototrophic bacteria and microalgae-bacteria photobioreactors. Journal of Water Process Engineering, 2022, 47, 102825.	5.6	7
10	Anaerobic digestion of food waste coupled with biogas upgrading in an outdoors algal-bacterial photobioreactor at pilot scale. Fuel, 2022, 324, 124554.	6.4	21
11	Photosynthetic upgrading of biogas from anaerobic digestion of mixed sludge in an outdoors algal-bacterial photobioreactor at pilot scale. Journal of Water Process Engineering, 2022, 48, 102891.	5.6	18
12	The experiences of success and failure in the pilot and real-scale photosynthetic biogas production. , 2022, , 1037-1059.		0
13	Effect of a LED-enhancement on microalgal and bacterial communities treating digestate in a deep high rate algal pond. Journal of Environmental Chemical Engineering, 2022, 10, 108015.	6.7	2
14	Influence of operational conditions on the performance of biogas bioconversion into ectoines in pilot bubble column bioreactors. Bioresource Technology, 2022, 358, 127398.	9.6	4
15	Recent trends and advances in biogas upgrading and methanotrophs-based valorization. Chemical Engineering Journal Advances, 2022, 11, 100325.	5.2	12
16	Syngas biomethanation: Current state and future perspectives. Bioresource Technology, 2022, 358, 127436.	9.6	20
17	Systematic comparison of a biotrickling filter and a conventional filter for the removal of a mixture of hydrophobic VOCs by Candida subhashii. Chemosphere, 2022, 306, 135608.	8.2	15
18	A stateâ€“ofâ€“the-art review on indoor air pollution and strategies for indoor air pollution control. Chemosphere, 2021, 262, 128376.	8.2	225

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19	Innovative operational strategies in photosynthetic biogas upgrading in an outdoors pilot scale algal-bacterial photobioreactor. Chemosphere, 2021, 264, 128470.	8.2	27
20	Microbial ecology of a lactate-driven dark fermentation process producing hydrogen under carbohydrate-limiting conditions. International Journal of Hydrogen Energy, 2021, 46, 11284-11296.	7.1	33
21	Current advances in microalgae-based treatment of high-strength wastewaters: challenges and opportunities to enhance wastewater treatment performance. Reviews in Environmental Science and Biotechnology, 2021, 20, 209-235.	8.1	32
22	Comparative Evaluation of CO2 Fixation of Microalgae Strains at Various CO2 Aeration Conditions. Waste and Biomass Valorization, 2021, 12, 2999-3007.	3.4	10
23	Environment and Material Science Technology for Anaerobic Digestion-Based Circular Bioeconomy. , 2021, , 25-55.		2
24	A review on the factors influencing biohydrogen production from lactate: The key to unlocking enhanced dark fermentative processes. Bioresource Technology, 2021, 324, 124595.	9.6	57
25	Comparative Performance Evaluation of Commercial Packing Materials for Malodorants Abatement in Biofiltration. Applied Sciences (Switzerland), 2021, 11, 2966.	2.5	7
26	Recent advances in biological systems for improving indoor air quality. Reviews in Environmental Science and Biotechnology, 2021, 20, 363-387.	8.1	22
27	Evaluation of pretreatments for solubilisation of components and recovery of fermentable monosaccharides from microalgae biomass grown in piggery wastewater. Chemosphere, 2021, 268, 129330.	8.2	7
28	Recent advances in Bioprocess Technology-2020. Bioresource Technology, 2021, 327, 124824.	9.6	1
29	Assessment of the performance of an anoxic-aerobic microalgal-bacterial system treating digestate. Chemosphere, 2021, 270, 129437.	8.2	9
30	Biogas from Anaerobic Digestion as an Energy Vector: Current Upgrading Development. Energies, 2021, 14, 2742.	3.1	36
31	Inspired by nature: Microbial production, degradation and valorization of biodegradable bioplastics for life-cycle-engineered products. Biotechnology Advances, 2021, 53, 107772.	11.7	55
32	A review on energy and cost effective phase separated pretreatment of biosolids. Water Research, 2021, 198, 117169.	11.3	16
33	Influence of biogas supply regime on photosynthetic biogas upgrading performance in an enclosed algal-bacterial photobioreactor. Algal Research, 2021, 57, 102350.	4.6	16
34	Biogas-based production of glycogen by Nostoc muscorum: Assessing the potential of transforming CO2 into value added products. Chemosphere, 2021, 275, 129885.	8.2	5
35	Impact of the algal-bacterial community structure, physio-types and biological and environmental interactions on the performance of a high rate algal pond treating biogas and wastewater. Fuel, 2021, 302, 121148.	6.4	17
36	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

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37	Elucidating the key environmental parameters during the production of ectoines from biogas by mixed methanotrophic consortia. Journal of Environmental Management, 2021, 298, 113462.	7.8	9
38	Siloxanes removal in a two-phase partitioning biotrickling filter: Influence of the EBRT and the organic phase. Renewable Energy, 2021, 177, 52-60.	8.9	20
39	Integration of algae-based sewage treatment with anaerobic digestion of the bacterial-algal biomass and biogas upgrading. Bioresource Technology, 2021, 340, 125552.	9.6	17
40	Assessment of a deep, LED-enhanced high-rate algal pond for the treatment of digestate. Algal Research, 2021, 59, 102444.	4.6	8
41	Ectoine Production from Biogas in Waste Treatment Facilities: A Techno-Economic and Sensitivity Analysis. ACS Sustainable Chemistry and Engineering, 2021, 9, 17371-17380.	6.7	14
42	Mechanistic Description of Convective Gasâ€“Liquid Mass Transfer in Biotrickling Filters Using CFD Modeling. Environmental Science & Technology, 2020, 54, 419-426.	10.0	11
43	Microalgalâ€“bacterial aggregates with flue gas supply as a platform for the treatment of anaerobic digestion centrate. Journal of Chemical Technology and Biotechnology, 2020, 95, 289-296.	3.2	2
44	Wastewater treatment and biomass generation with algae. , 2020, , 229-254.		2
45	Elucidating the influence of environmental factors on biogas-based polyhydroxybutyrate production by Methylocystis hirsuta CSC1. Science of the Total Environment, 2020, 706, 135136.	8.0	16
46	A systematic comparison of ectoine production from upgraded biogas using Methylomicrobium alcaliphilum and a mixed haloalkaliphilic consortium. Waste Management, 2020, 102, 773-781.	7.4	19
47	Optimization of photosynthetic biogas upgrading in closed photobioreactors combined with algal biomass production. Journal of Water Process Engineering, 2020, 38, 101554.	5.6	14
48	Influence of the diffuser type and liquid-to-biogas ratio on biogas upgrading performance in an outdoor pilot scale high rate algal pond. Fuel, 2020, 275, 117999.	6.4	16
49	Halotolerance mechanisms of the methanotroph Methylomicrobium alcaliphilum. Biotechnology and Bioengineering, 2020, 117, 3459-3474.	3.3	8
50	Genome Scale Metabolic Model of the versatile methanotroph Methylocella silvestris. Microbial Cell Factories, 2020, 19, 144.	4.0	18
51	Editorial: Recent advances in pond and algal technologies for wastewater treatment and resource recovery. Water Science and Technology, 2020, 82, iii-iii.	2.5	0
52	A comparative assessment of the performance of fungal-bacterial and fungal biofilters for methane abatement. Journal of Environmental Chemical Engineering, 2020, 8, 104421.	6.7	9
53	Long-term influence of high alkalinity on the performance of photosynthetic biogas upgrading. Fuel, 2020, 281, 118804.	6.4	18
54	Harvesting microalgal-bacterial biomass from biogas upgrading process and evaluating the impact of flocculants on their growth during repeated recycling of the spent medium. Algal Research, 2020, 48, 101915.	4.6	6

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55	Three-stage process for tequila vinasse valorization through sequential lactate, biohydrogen and methane production. Bioresource Technology, 2020, 307, 123160.	9.6	39
56	Performance evaluation of a control strategy for photosynthetic biogas upgrading in a semi-industrial scale photobioreactor. Bioresource Technology, 2020, 307, 123207.	9.6	20
57	Optimization of a chemical scrubbing process based on a Fe-EDTA-carbonate based solvent for the simultaneous removal of CO2 and H2S from biogas. Journal of Water Process Engineering, 2020, 37, 101476.	5.6	10
58	Biogas valorization via continuous polyhydroxybutyrate production by Methylocystis hirsuta in a bubble column bioreactor. Waste Management, 2020, 113, 395-403.	7.4	36
59	Modeling of Polyhydroxyalkanoate Synthesis from Biogas by Methylocystis hirsuta. ACS Sustainable Chemistry and Engineering, 2020, 8, 3906-3912.	6.7	12
60	Value-added co-products from biomass of the diatoms Staurosirella pinnata and Phaeodactylum tricornutum. Algal Research, 2020, 47, 101830.	4.6	18
61	Trimethylamine abatement in algal-bacterial photobioreactors. Environmental Science and Pollution Research, 2020, 27, 9028-9037.	5.3	3
62	Comparative Evaluation of Biogas Valorization into Electricity/Heat and Poly(hydroxyalkanoates) in Waste Treatment Plants: Assessing the Influence of Local Commodity Prices and Current Biotechnological Limitations. ACS Sustainable Chemistry and Engineering, 2020, 8, 7701-7709.	6.7	18
63	Polyhydroxyalkanoates (PHA) production from biogas in waste treatment facilities: Assessing the potential impacts on economy, environment and society. Chemosphere, 2020, 255, 126929.	8.2	40
64	Integrated innovative biorefinery for the transformation of municipal solid waste into biobased products. , 2020, , 41-80.		11
65	A systematic optimization of piggery wastewater treatment with purple phototrophic bacteria. Chemosphere, 2020, 253, 126621.	8.2	20
66	Comparative assessment of two biotrickling filters for siloxanes removal: Effect of the addition of an organic phase. Chemosphere, 2020, 251, 126359.	8.2	23
67	Strategies for N2 and O2 removal during biogas upgrading in a pilot algal-bacterial photobioreactor. Algal Research, 2020, 48, 101920.	4.6	11
68	Exploring the potential of microalgae for the bioremediation of agro-industrial wastewaters. , 2020, , 641-658.		0
69	Comparative evaluation of continuous piggery wastewater treatment in open and closed purple phototrophic bacteria-based photobioreactors. Journal of Water Process Engineering, 2020, 38, 101608.	5.6	11
70	Microalgae-Based Processes as an Energy Efficient Platform for Water Reclamation and Resource Recovery. Advances in Science, Technology and Innovation, 2020, , 95-97.	0.4	0
71	SDN Control of Disaggregated Optical Networks with OpenConfig and OpenROADM. Lecture Notes in Computer Science, 2020, , 452-464.	1.3	3
72	Applying Security Service Level Agreements in V2X Network Slices. , 2020, , .		3

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73	Biogas Upgrading: Current and Emerging Technologies. , 2019, , 817-843.		24
74	Polyhydroxyalkanoates production from methane emissions in Sphagnum mosses: Assessing the effect of temperature and phosphorus limitation. Science of the Total Environment, 2019, 688, 684-690.	8.0	15
75	Influence of organic matter and CO2 supply on bioremediation of heavy metals by Chlorella vulgaris and Scenedesmus almeriensis in a multimetallic matrix. Ecotoxicology and Environmental Safety, 2019, 182, 109393.	6.0	16
76	Photobioreactors based on microalgae-bacteria and purple phototrophic bacteria consortia: A promising technology to reduce the load of veterinary drugs from piggery wastewater. Science of the Total Environment, 2019, 692, 259-266.	8.0	40
77	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
78	Life cycle assessment of pilot and real scale photosynthetic biogas upgrading units. Algal Research, 2019, 44, 101668.	4.6	20
79	Growth performance and nutrient removal of a Chlorella vulgaris-Rhizobium sp. co-culture during mixotrophic feed-batch cultivation in synthetic wastewater. Algal Research, 2019, 44, 101690.	4.6	23
80	Efficient removal of siloxanes and volatile organic compounds from sewage biogas by an anoxic biotrickling filter supplemented with activated carbon. Bioresource Technology, 2019, 294, 122136.	9.6	43
81	Removal of contaminants of emerging concern from urban wastewater in novel algal-bacterial photobioreactors. Science of the Total Environment, 2019, 662, 32-40.	8.0	64
82	CH4-Based Polyhydroxyalkanoate Production: A Step Further Towards a Sustainable Bioeconomy. , 2019, , 283-321.		7
83	Technology validation of photosynthetic biogas upgrading in a semi-industrial scale algal-bacterial photobioreactor. Bioresource Technology, 2019, 279, 43-49.	9.6	63
84	A rapid regulation with different response intensities of the pmoA gene guarantees process robustness towards methane surges in continuous and feast-famine bioreactors. Biochemical Engineering Journal, 2019, 144, 193-197.	3.6	1
85	Influence of liquid-to-biogas ratio and alkalinity on the biogas upgrading performance in a demo scale algal-bacterial photobioreactor. Bioresource Technology, 2019, 280, 112-117.	9.6	37
86	Decolorization and phytotoxicity reduction in an innovative anaerobic/aerobic photobioreactor treating textile wastewater. Chemosphere, 2019, 234, 356-364.	8.2	34
87	Reconstruction of a Genome Scale Metabolic Model of the polyhydroxybutyrate producing methanotroph Methylocystis parvus OBBP. Microbial Cell Factories, 2019, 18, 104.	4.0	33
88	Potential of Microalgae for Wastewater Treatment and Its Valorization into Added Value Products. , 2019, , 281-315.		5
89	The effect of temperature during culture enrichment on methanotrophic polyhydroxyalkanoate production. International Biodeterioration and Biodegradation, 2019, 140, 144-151.	3.9	23
90	Genome scale metabolic modeling reveals the metabolic potential of three Type II methanotrophs of the genus Methylocystis. Metabolic Engineering, 2019, 54, 191-199.	7.0	48

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91	Ammonium influences kinetics and structure of methanotrophic consortia. Waste Management, 2019, 89, 345-353.	7.4	10
92	Genome sequence of Methylocystis hirsuta CSC1, a polyhydroxyalkanoate producing methanotroph. MicrobiologyOpen, 2019, 8, e00771.	3.0	14
93	Elucidating the symbiotic interactions between a locally isolated microalga Chlorella vulgaris and its co-occurring bacterium Rhizobium sp. in synthetic municipal wastewater. Journal of Applied Phycology, 2019, 31, 2299-2310.	2.8	32
94	Assessing the potential of purple phototrophic bacteria for the simultaneous treatment of piggery wastewater and upgrading of biogas. Bioresource Technology, 2019, 281, 10-17.	9.6	28
95	Optimisation of the production of fermentable monosaccharides from algal biomass grown in photobioreactors treating wastewater. Bioresource Technology, 2019, 281, 239-249.	9.6	18
96	Biological treatment of gas pollutants in partitioning bioreactors. Advances in Chemical Engineering, 2019, 54, 239-274.	0.9	11
97	Assessing the influence of the hydraulic retention time and carbon/nitrogen ratio on urban wastewater treatment in a new anoxic-aerobic algal-bacterial photobioreactor configuration. Algal Research, 2019, 44, 101672.	4.6	19
98	Development of a control strategy to cope with biogas flowrate variations during photosynthetic biogas upgrading. Biomass and Bioenergy, 2019, 131, 105414.	5.7	16
99	A systematic comparison of the potential of microalgae-bacteria and purple phototrophic bacteria consortia for the treatment of piggery wastewater. Bioresource Technology, 2019, 276, 18-27.	9.6	71
100	Novel haloalkaliphilic methanotrophic bacteria: An attempt for enhancing methane bio-refinery. Journal of Environmental Management, 2019, 231, 1091-1099.	7.8	9
101	Bio-conversion of methane into high profit margin compounds: an innovative, environmentally friendly and cost-effective platform for methane abatement. World Journal of Microbiology and Biotechnology, 2019, 35, 16.	3.6	33
102	Editorial introduction to the special issue from ICAFE-2017: The 2nd international conference on alternative fuels & energy. Biotechnology Reports (Amsterdam, Netherlands), 2019, 21, e00304.	4.4	0
103	Combining Microalgae-Based Wastewater Treatment with Biofuel and Bio-Based Production in the Frame of a Biorefinery. Grand Challenges in Biology and Biotechnology, 2019, , 319-369.	2.4	14
104	Biofuels from Microalgae: Biomethane. Green Energy and Technology, 2018, , 247-270.	0.6	3
105	Effect of packing material configuration and liquid recirculation rate on the performance of a biotrickling filter treating VOCs. Journal of Chemical Technology and Biotechnology, 2018, 93, 2299-2306.	3.2	13
106	Biogas Purification and Upgrading Technologies. Biofuel and Biorefinery Technologies, 2018, , 239-276.	0.3	16
107	A systematic comparison of two empirical gas-liquid mass transfer determination methodologies to characterize methane biodegradation in stirred tank bioreactors. Journal of Environmental Management, 2018, 217, 247-252.	7.8	7
108	Effect of pretreatments on biogas production from microalgae biomass grown in pig manure treatment plants. Bioresource Technology, 2018, 257, 30-38.	9.6	50

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109	Influence of the seasonal variation of environmental conditions on biogas upgrading in an outdoors pilot scale high rate algal pond. Bioresource Technology, 2018, 255, 354-358.	9.6	35
110	Technologies for the bioconversion of methane into more valuable products. Current Opinion in Biotechnology, 2018, 50, 128-135.	6.6	81
111	Seasonal variation of biogas upgrading coupled with digestate treatment in an outdoors pilot scale algal-bacterial photobioreactor. Bioresource Technology, 2018, 263, 58-66.	9.6	61
112	Comparative uptake study of arsenic, boron, copper, manganese and zinc from water by different green microalgae. Bioresource Technology, 2018, 263, 49-57.	9.6	119
113	Multiresidue analytical method for pharmaceuticals and personal care products in sewage and sewage sludge by online direct immersion SPME on-fiber derivatization â€“ GCMS. Talanta, 2018, 186, 506-512.	5.5	30
114	Anoxic denitrification of BTEX: Biodegradation kinetics and pollutant interactions. Journal of Environmental Management, 2018, 214, 125-136.	7.8	36
115	A state-of-the-art review on nitrous oxide control from waste treatment and industrial sources. Biotechnology Advances, 2018, 36, 1025-1037.	11.7	48
116	Evaluation of the dynamics of microalgae population structure and process performance during piggery wastewater treatment in algal-bacterial photobioreactors. Bioresource Technology, 2018, 248, 120-126.	9.6	88
117	Simultaneous methane abatement and PHB production by Methylocystis hirsuta in a novel gas-recycling bubble column bioreactor. Chemical Engineering Journal, 2018, 334, 691-697.	12.7	61
118	Feast-famine biofilter operation for methane mitigation. Journal of Cleaner Production, 2018, 170, 108-118.	9.3	34
119	Biogas-based polyhydroxyalkanoates production by Methylocystis hirsuta: A step further in anaerobic digestion biorefineries. Chemical Engineering Journal, 2018, 333, 529-536.	12.7	87
120	Assessing textile wastewater treatment in an anoxic-aerobic photobioreactor and the potential of the treated water for irrigation. Algal Research, 2018, 29, 170-178.	4.6	42
121	Mathematical modelling of in-situ microaerobic desulfurization of biogas from sewage sludge digestion. Biotechnology Reports (Amsterdam, Netherlands), 2018, 20, e00293.	4.4	1
122	Multi-production of high added market value metabolites from diluted methane emissions via methanotrophic extremophiles. Bioresource Technology, 2018, 267, 401-407.	9.6	37
123	Editorial: Algal technologies for wastewater treatment and resource recovery. Water Science and Technology, 2018, 78, 1-2.	2.5	7
124	Integral (VOCs, CO2, mercaptans and H2S) photosynthetic biogas upgrading using innovative biogas and digestate supply strategies. Chemical Engineering Journal, 2018, 354, 363-369.	12.7	37
125	Quantitative analysis of methane monooxygenase (MMO) explains process robustness in continuous and feast-famine bioreactors treating methane. Chemosphere, 2018, 212, 319-329.	8.2	4
126	Influence of alkalinity and temperature on photosynthetic biogas upgrading efficiency in high rate algal ponds. Algal Research, 2018, 33, 284-290.	4.6	49

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127	Long-term photosynthetic CO2 removal from biogas and flue-gas: Exploring the potential of closed photobioreactors for high-value biomass production. Science of the Total Environment, 2018, 640-641, 1272-1278.	8.0	30
128	Simultaneous biogas upgrading and centrate treatment in an outdoors pilot scale high rate algal pond. Bioresource Technology, 2017, 232, 133-141.	9.6	84
129	Microbial community changes during different empty bed residence times and operational fluctuations in an air diffusion reactor for odor abatement. Science of the Total Environment, 2017, 590-591, 352-360.	8.0	16
130	Photodegradation and sorption govern tetracycline removal during wastewater treatment in algal ponds. Bioresource Technology, 2017, 232, 35-43.	9.6	149
131	Nitrous Oxide Abatement Coupled with Biopolymer Production As a Model GHG Biorefinery for Cost-Effective Climate Change Mitigation. Environmental Science & Technology, 2017, 51, 6319-6325.	10.0	12
132	Influence of the gas-liquid flow configuration in the absorption column on photosynthetic biogas upgrading in algal-bacterial photobioreactors. Bioresource Technology, 2017, 225, 336-342.	9.6	63
133	Assessing the influence of the carbon source on the abatement of industrial N 2 O emissions coupled with the synthesis of added-value bioproducts. Science of the Total Environment, 2017, 598, 765-771.	8.0	4
134	A comparative analysis of biogas upgrading technologies: Photosynthetic vs physical/chemical processes. Algal Research, 2017, 25, 237-243.	4.6	71
135	Bio-hythane production from microalgae biomass: Key challenges and potential opportunities for algal bio-refineries. Bioresource Technology, 2017, 241, 525-536.	9.6	91
136	Advanced nutrient removal from surface water by a consortium of attached microalgae and bacteria: A review. Bioresource Technology, 2017, 241, 1127-1137.	9.6	234
137	Anoxic biodegradation of BTEX in a biotrickling filter. Science of the Total Environment, 2017, 587-588, 457-465.	8.0	61
138	Continuous abatement of methane coupled with ectoine production by Methylomicrobium alcaliphilum 20Z in stirred tank reactors: A step further towards greenhouse gas biorefineries. Journal of Cleaner Production, 2017, 152, 134-141.	9.3	42
139	A study of photosynthetic biogas upgrading based on a high rate algal pond under alkaline conditions: Influence of the illumination regime. Science of the Total Environment, 2017, 592, 419-425.	8.0	61
140	Mesophilic and thermophilic anaerobic digestion of lipid-extracted microalgae N.Âgaditana for methane production. Renewable Energy, 2017, 105, 539-546.	8.9	42
141	Enhanced carbon, nitrogen and phosphorus removal from domestic wastewater in a novel anoxic-aerobic photobioreactor coupled with biogas upgrading. Chemical Engineering Journal, 2017, 313, 424-434.	12.7	83
142	Integrating nutrient removal and solid management restricts the feasibility of algal biofuel generation via wastewater treatment. Algal Research, 2017, 22, 39-46.	4.6	28
143	Continuous photosynthetic abatement of CO2 and volatile organic compounds from exhaust gas coupled to wastewater treatment: Evaluation of tubular algal-bacterial photobioreactor. Journal of CO2 Utilization, 2017, 21, 353-359.	6.8	30
144	Comparative evaluation of piggery wastewater treatment in algal-bacterial photobioreactors under indoor and outdoor conditions. Bioresource Technology, 2017, 245, 483-490.	9.6	75

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145	Effect of extended and daily short-term starvation/shut-down events on the performance of a biofilter treating toluene vapors. Journal of Environmental Management, 2017, 203, 68-75.	7.8	19
146	Ectoine bio-milking in methanotrophs: A step further towards methane-based bio-refineries into high added-value products. Chemical Engineering Journal, 2017, 328, 44-48.	12.7	34
147	Biogasâ€based denitrification in a biotrickling filter: Influence of nitrate concentration and hydrogen sulfide. Biotechnology and Bioengineering, 2017, 114, 665-673.	3.3	37
148	Biogas upgrading using algal-bacterial processes. , 2017, , 283-304.		3
149	Microalgae cultivation in wastewater. , 2017, , 67-91.		36
150	Technologies for the Bio-conversion of GHGs into High Added Value Products: Current State and Future Prospects. Green Energy and Technology, 2017, , 359-388.	0.6	2
151	Biogas upgrading from vinasse digesters: a comparison between an anoxic biotrickling filter and an algalâ€bacterial photobioreactor. Journal of Chemical Technology and Biotechnology, 2016, 91, 2488-2495.	3.2	62
152	A fundamental study on biological removal of N2O in the presence of oxygen. Chemosphere, 2016, 158, 9-16.	8.2	17
153	The effects of various LED (light emitting diode) lighting strategies on simultaneous biogas upgrading and biogas slurry nutrient reduction by using of microalgae Chlorella sp.. Energy, 2016, 106, 554-561.	8.8	88
154	Photosynthetic biogas upgrading to bio-methane: Boosting nutrient recovery via biomass productivity control. Algal Research, 2016, 17, 46-52.	4.6	83
155	Elucidating the key role of the fungal mycelium on the biodegradation of n-pentane as a model hydrophobic VOC. Chemosphere, 2016, 157, 89-96.	8.2	23
156	Valorization of CH 4 emissions into high-added-value products: Assessing the production of ectoine coupled with CH 4 abatement. Journal of Environmental Management, 2016, 182, 160-165.	7.8	25
157	Toluene biodegradation in an algal-bacterial airlift photobioreactor: Influence of the biomass concentration and of the presence of an organic phase. Journal of Environmental Management, 2016, 183, 585-593.	7.8	25
158	Comparative performance evaluation of conventional and twoâ€phase hydrophobic stirred tank reactors for methane abatement: Mass transfer and biological considerations. Biotechnology and Bioengineering, 2016, 113, 1203-1212.	3.3	30
159	Influence of light intensity on bacterial nitrifying activity in algal-bacterial photobioreactors and its implications for microalgae-based wastewater treatment. International Biodeterioration and Biodegradation, 2016, 114, 116-121.	3.9	88
160	Saccharification of microalgae biomass obtained from wastewater treatment by enzymatic hydrolysis. Effect of alkaline-peroxide pretreatment. Bioresource Technology, 2016, 218, 265-271.	9.6	33
161	Simultaneous biological nitrous oxide abatement and wastewater treatment in a denitrifying off-gas bioscrubber. Chemical Engineering Journal, 2016, 288, 28-37.	12.7	34
162	Evaluation of the influence of methane and copper concentration and methane mass transport on the community structure and biodegradation kinetics of methanotrophic cultures. Journal of Environmental Management, 2016, 171, 11-20.	7.8	33

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163	Feasibility study of biogas upgrading coupled with nutrient removal from anaerobic effluents using microalgae-based processes. Journal of Applied Phycology, 2016, 28, 2147-2157.	2.8	42
164	Exploring the potential of fungi for methane abatement: Performance evaluation of a fungal-bacterial biofilter. Chemosphere, 2016, 144, 97-106.	8.2	49
165	Preventing Odor Emissions by Integrated Activated Sludge and Oxidized Ammonium Recycling. Proceedings of the Water Environment Federation, 2016, 2016, 2925-2942.	0.0	0
166	Biotechnologies for gaseous emissions and by-products management in waste treatment facilities. Waste Management and Research, 2015, 33, 945-946.	3.9	0
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