Marcin DÄbowski

List of Publications by Year in descending order

97 papers	1,644 citations	331538 21 h-index	377752 34 g-index
97 all docs	97 docs citations	97 times ranked	1647 citing authors

#	Article	IF	Citations
1	Effect of magneto-active filling on the effectiveness of methane fermentation of dairy wastewaters. International Journal of Green Energy, 2022, 19, 455-462.	2.1	11
2	Effects of Liquid Digestate Treatment on Sustainable Microalgae Biomass Production. Bioenergy Research, 2022, 15, 357-370.	2.2	23
3	Influence of the Fertilization Method on the Silphium perfoliatum Biomass Composition and Methane Fermentation Efficiency. Energies, 2022, 15, 927.	1.6	4
4	The Effect of Electromagnetic Microwave Radiation on Methane Fermentation of Selected Energy Crop Species. Processes, 2022, 10, 45.	1.3	6
5	Multifaceted Analysis of the Use of Catalytic Additives for Combustion with Hemp Pellets in a Low-Power Boiler. Energies, 2022, 15, 2034.	1.6	3
6	The Effect of Autotrophic Cultivation of Platymonas subcordiformis in Waters from the Natural Aquatic Reservoir on Hydrogen Yield. Resources, 2022, 11, 31.	1.6	5
7	Anaerobic Reactor Filling for Phosphorus Removal by Metal Dissolution Method. Materials, 2022, 15, 2263.	1.3	7
8	Optimization of Lipid Production by Schizochytrium limacinum Biomass Modified with Ethyl Methane Sulfonate and Grown on Waste Glycerol. International Journal of Environmental Research and Public Health, 2022, 19, 3108.	1.2	4
9	Wastewater Treatment and Biogas Production: Innovative Technologies, Research and Development Directions. Energies, 2022, 15, 2122.	1.6	4
10	Helianthus salicifolius as a New Biomass Source for Biogas Production. Energies, 2022, 15, 2921.	1.6	2
11	Outflow from a Biogas Plant as a Medium for Microalgae Biomass Cultivationâ€"Pilot Scale Study and Technical Concept of a Large-Scale Installation. Energies, 2022, 15, 2912.	1.6	12
12	Effects of Ultrasonic and Microwave Pretreatment on Lipid Extraction of Microalgae and Methane Production from the Residual Extracted Biomass. Bioenergy Research, 2021, 14, 752-760.	2.2	43
13	Influence of preparation of Sida hermaphrodita silages on its conversion to methane. Renewable Energy, 2021, 163, 437-444.	4.3	10
14	Optimisation of methane fermentation as a valorisation method for food waste products. Biomass and Bioenergy, 2021, 144, 105913.	2.9	45
15	The Effect of Static Magnetic Field on Methanogenesis in the Anaerobic Digestion of Municipal Sewage Sludge. Energies, 2021, 14, 590.	1.6	27
16	Influence of the Heating Method on the Efficiency of Biomethane Production from Expired Food Products. Fermentation, 2021, 7, 12.	1.4	26
17	Effect of static magnetic field on microbial community during anaerobic digestion. Bioresource Technology, 2021, 323, 124600.	4.8	33
18	Optimizing Docosahexaenoic Acid (DHA) Production by Schizochytrium sp. Grown on Waste Glycerol. Energies, 2021, 14, 1685.	1.6	19

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19	Efficiency of sweet whey fermentation with psychrophilic methanogens. Environmental Science and Pollution Research, 2021, 28, 49314-49323.	2.7	5
20	Cultivation Method Effect on Schizochytrium sp. Biomass Growth and Docosahexaenoic Acid (DHA) Production with the Use of Waste Glycerol as a Source of Organic Carbon. Energies, 2021, 14, 2952.	1.6	17
21	Comparison of Energy Consumption of Cereal Grain Dryer Powered by LPG and Hard Coal in Polish Conditions. Energies, 2021, 14, 4340.	1.6	6
22	A Comparative Analysis of Emissions from a Compressionâ€“Ignition Engine Powered by Diesel, Rapeseed Biodiesel, and Biodiesel from Chlorella protothecoides Biomass Cultured under Different Conditions. Atmosphere, 2021, 12, 1099.	1.0	13
23	Immobilized Microalgae-Based Photobioreactor for CO2 Capture (IMC-CO2PBR): Efficiency Estimation, Technological Parameters, and Prototype Concept. Atmosphere, 2021, 12, 1031.	1.0	22
24	Microalgal Hydrogen Production in Relation to Other Biomass-Based Technologiesâ€”A Review. Energies, 2021, 14, 6025.	1.6	20
25	Microwave Radiation Influence on Dairy Waste Anaerobic Digestion in a Multi-Section Hybrid Anaerobic Reactor (M-SHAR). Processes, 2021, 9, 1772.	1.3	14
26	Effect of the Concentration of Extracellular Polymeric Substances (EPS) and Aeration Intensity on Waste Glycerol Valorization by Docosahexaenoic Acid (DHA) Produced in Heterotrophic Culture of Schizochytrium sp. Applied Sciences (Switzerland), 2021, 11, 9573.	1.3	1
27	Analysis of the Long-Term Mass Balance and Efficiency of Waste Recovery in a Municipal Waste Biodrying Plant. Energies, 2021, 14, 7711.	1.6	3
28	Algae Biomass as a Potential Source of Liquid Fuels. Phycology, 2021, 1, 105-118.	1.7	10
29	Progress in the Production of Biogas from Maize Silage after Acid-Heat Pretreatment. Energies, 2021, 14, 8018.	1.6	8
30	Microwave support of the alcoholic fermentation process of cyanobacteria Arthrospira platensis. Environmental Science and Pollution Research, 2020, 27, 118-124.	2.7	5
31	Individual and Synergistic Effects of Metronidazole, Amoxicillin, and Ciprofloxacin on Methane Fermentation with Sewage Sludge. Clean - Soil, Air, Water, 2020, 48, 1900281.	0.7	9
32	Assessment of Energy Storage from Photovoltaic Installations in Poland Using Batteries or Hydrogen. Energies, 2020, 13, 4023.	1.6	28
33	Microalgae Cultivation Technologies as an Opportunity for Bioenergetic System Developmentâ€”Advantages and Limitations. Sustainability, 2020, 12, 9980.	1.6	84
34	Silphium perfoliatumâ€”A Herbaceous Crop with Increased Interest in Recent Years for Multi-Purpose Use. Agriculture (Switzerland), 2020, 10, 640.	1.4	21
35	Technological Effectiveness of Sugar-Industry Effluent Methane Fermentation in a Fluidized Active Filling Reactor (FAF-R). Energies, 2020, 13, 6626.	1.6	22
36	Effectiveness of Scenedesmus sp. Biomass Grow and Nutrients Removal from Liquid Phase of Digestates. Energies, 2020, 13, 1432.	1.6	12

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37	Evaluation of Anaerobic Digestion of Dairy Wastewater in an Innovative Multi-Section Horizontal Flow Reactor. Energies, 2020, 13, 2392.	1.6	37
38	The Cultivation of Lipid-Rich Microalgae Biomass as Anaerobic Digestate Valorization Technologyâ€"A Pilot-Scale Study. Processes, 2020, 8, 517.	1.3	29
39	The effects of Microalgae Biomass Co-Substrate on Biogas Production from the Common Agricultural Biogas Plants Feedstock. Energies, 2020, 13, 2186.	1.6	33
40	Biological Activity of Hydrophilic Extract of Chlorella vulgaris Grown on Post-Fermentation Leachate from a Biogas Plant Supplied with Stillage and Maize Silage. Molecules, 2020, 25, 1790.	1.7	25
41	Evaluation of the Properties and Usefulness of Ashes from the Corn Grain Drying Process Biomass. Energies, 2020, 13, 1290.	1.6	6
42	Comparison of microwave thermohydrolysis and liquid hot water pretreatment of energy crop Sida hermaphrodita for enhanced methane production. Biomass and Bioenergy, 2019, 128, 105324.	2.9	24
43	Cavitation-based pretreatment strategies to enhance biogas production in a small-scale agricultural biogas plant. Energy for Sustainable Development, 2019, 49, 21-26.	2.0	31
44	Progress in the production of biogas from Virginia mallow after alkaline-heat pretreatment. Biomass and Bioenergy, 2019, 126, 174-180.	2.9	11
45	Multi-Indicator Assessment of Innovative Small-Scale Biomethane Technologies in Europe. Energies, 2019, 12, 1321.	1.6	13
46	Effects of Nutrients Supplementation on Enhanced Biogas Production from Maize Silage and Cattle Slurry Mixture. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	19
47	Anaerobic digestion of microalgae for biomethane production. , 2019, , 405-436.		6
48	Application of Hydrodynamic Cavitation for Improving Methane Fermentation of Sida hermaphrodita Silage. Energies, 2019, 12, 526.	1.6	21
49	Comparison of Ultrasonic and Hydrothermal Cavitation Pretreatments of Cattle Manure Mixed with Straw Wheat on Fermentative Biogas Production. Waste and Biomass Valorization, 2019, 10, 747-754.	1.8	33
50	The influence of perforation of foil reactors on greenhouse gas emission rates during aerobic biostabilization of the undersize fraction of municipal wastes. Journal of Environmental Management, 2018, 207, 355-365.	3.8	20
51	Influence of static magnetic field on sludge properties. Science of the Total Environment, 2018, 625, 738-742.	3.9	40
52	The Possibility of Hybrid-Bioreactor Heating by the Microwave Radiation. International Journal of Chemical Reactor Engineering, 2018, 16, .	0.6	2
53	Organic Compounds and Phosphorus Removal from Dairy Wastewater by Biofilm on Iron-Containing Supports. Journal of Environmental Engineering, ASCE, 2018, 144, .	0.7	8
54	Effect of Inorganic Coagulants on the Characteristics in Anaerobic Digested Distillery Stillage Valorization. Proceedings (mdpi), 2018, 2, .	0.2	0

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55	SIMULATED DAIRY WASTEWATER TREATMENT IN A PILOT PLANT SCALE MAGNETO-ACTIVE HYBRID ANAEROBIC BIOFILM REACTOR (MA-HABR). Brazilian Journal of Chemical Engineering, 2018, 35, 553-562.	0.7	10
56	Microwave Heating Impact on the Oil Yield from Botryococcus braunii Algae Biomass. Proceedings (mdpi), 2018, 2, .	0.2	1
57	Microwave Support of the Alcoholic Fermentation Process of Cyanobacteria Arthrospira platensis. Proceedings (mdpi), 2018, 2, .	0.2	1
58	Inhibition of Methane Fermentation by Antibiotics Introduced to Municipal Anaerobic Sludge. Proceedings (mdpi), 2018, 2, .	0.2	5
59	Modelling of the effect of outside air temperature on exploitation of heat from geothermal water using the example of the geothermal heating plant PEC â€œGeotermia PodhalaÅ„skaâ€•S.A.. Journal of Renewable and Sustainable Energy, 2018, 10, .	0.8	0
60	The possibility of application of agglomerate elastomers (EPP) as media for biological bed in aquaculture. Aquaculture Research, 2018, 49, 2988-2994.	0.9	16
61	Biomass Production and Nutrient Removal by Chlorella vulgaris from Anaerobic Digestion Effluents. Energies, 2018, 11, 1654.	1.6	12
62	Anaerobic Digestion Effluents (ADEs) Treatment Coupling with Chlorella sp. Microalgae Production. Water Environment Research, 2018, 90, 155-163.	1.3	12
63	Enhancement of Dairy Wastewater Treatment in a Combined Anaerobic Baffled and Biofilm Reactor with Magneto-Active Packing Media. Journal of Ecological Engineering, 2018, 19, 165-171.	0.5	4
64	Application of an Innovative Ultrasound Disintegrator for Sewage Sludge Conditioning Before Methane Fermentation. Journal of Ecological Engineering, 2018, 19, 240-247.	0.5	6
65	Influence of Ultrasonic Disintegration on Efficiency of Methane Fermentation of Sida hermaphrodita Silage. Journal of Ecological Engineering, 2018, 19, 128-134.	0.5	4
66	Mechanical Pretreatment of Lignocellulosic Biomass for Methane Fermentation in Innovative Reactor with Cage Mixing System. Journal of Ecological Engineering, 2018, 19, 219-224.	0.5	12
67	The Influence of Anaerobic Digestion Effluents (ADEs) Used as the Nutrient Sources for Chlorella sp. Cultivation on Fermentative Biogas Production. Waste and Biomass Valorization, 2017, 8, 1153-1161.	1.8	30
68	Biohydrogen production at low load of organic matter by psychrophilic bacteria. Energy, 2017, 134, 1132-1139.	4.5	13
69	Hydrothermal Depolymerization of Virginia Fanpetals (Sida Hermaphrodita) Biomass with the Use of Microwave Radiation as a Potential Method for Substrate Pre-treatment Before the Process of Methane Fermentation. Energy Procedia, 2017, 105, 694-699.	1.8	7
70	Influence of microwave heating on biogas production from Sida hermaphrodita silage. Bioresource Technology, 2017, 245, 1290-1293.	4.8	10
71	Estimation of operational parameters of the counter-rotating wind turbine with artificial neural networks. Archives of Civil and Mechanical Engineering, 2017, 17, 1019-1028.	1.9	18
72	Concept of a Technological System for Microalgae Biomass Production with the Use of Effluents from Fermentation Tanks. Energy Procedia, 2017, 105, 681-687.	1.8	2

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73	Nitrification in Activated Sludge Exposed to Static Magnetic Field. Water, Air, and Soil Pollution, 2017, 228, 126.	1.1	26
74	Effect of a static magnetic field on activated sludge community. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.2	6
75	Enhancement of sedimentation and coagulation with static magnetic field. E3S Web of Conferences, 2017, 22, 00203.	0.2	0
76	Influence of a light source on microalgae growth and subsequent anaerobic digestion of harvested biomass. Biomass and Bioenergy, 2016, 91, 243-249.	2.9	12
77	Acquisition feasibility and methane fermentation effectiveness of biomass of microalgae occurring in eutrophicated aquifers on the example of the Vistula Lagoon. International Journal of Green Energy, 2016, 13, 395-407.	2.1	7
78	Efficiency of methane fermentation of waste microalgae biomass (WMAB) collected in processes of reclamation of eutrophicated water reservoirs. Environmental Earth Sciences, 2016, 75, 1.	1.3	4
79	Ammonium removal on zeolite modified by ultrasound. Desalination and Water Treatment, 2016, 57, 8748-8753.	1.0	15
80	Effect of constant magnetic field on anaerobic digestion of algal biomass. Environmental Technology (United Kingdom), 2016, 37, 1656-1663.	1.2	18
81	Operational tests of a dual-rotor mini wind turbine. Eksploatacja I Niezawodnosc, 2016, 18, 201-209.	1.1	9
82	Effectiveness of dairy wastewater treatment in anaerobic reactors with magnetoactive filling. Environmental Progress and Sustainable Energy, 2015, 34, 427-431.	1.3	11
83	Phosphorus Removal in Anaerobic Fluidized Bed Reactor with Active Microporous Filling Produced by Extrusion Technology. Solid State Phenomena, 2015, 237, 295-300.	0.3	1
84	The effect of pressure and temperature pretreatment on the biogas output from algal biomass. Environmental Technology (United Kingdom), 2015, 36, 693-698.	1.2	6
85	The Possibility of Using Macroalgae Biomass from Natural Reservoirs as a Substrate in the Methane Fermentation Process. International Journal of Green Energy, 2015, 12, 970-977.	2.1	10
86	Possibility of hydrogen production during cheese whey fermentation process by different strains of psychrophilic bacteria. International Journal of Hydrogen Energy, 2014, 39, 1972-1978.	3.8	47
87	Optimizing low-temperature biogas production from biomass by anaerobic digestion. Renewable Energy, 2014, 69, 219-225.	4.3	27
88	Methanogenic archaeon as biogas producer in psychrophilic conditions. Journal of Cleaner Production, 2014, 76, 190-195.	4.6	11
89	Algae biomass as an alternative substrate in biogas production technologiesâ€"Review. Renewable and Sustainable Energy Reviews, 2013, 27, 596-604.	8.2	188
90	Impact of temperature, microwave radiation and organic loading rate on methanogenic community and biogas production during fermentation of dairy wastewater. Bioresource Technology, 2013, 129, 308-314.	4.8	51

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91	Application of microwave radiation to biofilm heating during wastewater treatment in trickling filters. Bioresource Technology, 2013, 127, 223-230.	4.8	16
92	Effect of the Application of Advanced Oxidation Technology on the Effectiveness of Anaerobic Treatment of Wastewaters with a High Concentration of Formaldehyde. Archives of Environmental Protection, 2013, 39, 81-91.	1.1	5
93	Efficiency of the Methane Fermentation Process of Macroalgae Biomass Originating from Puck Bay / WydajnoÅ›Ä‡ Procesu Fermentacji Metanowej Biomasy MakroglonÃ³w PochodzÄ…cych Z Zatoki Puckiej. Archives of Environmental Protection, 2012, 38, .	1.1	7
94	Influence of microwave radiation on bacterial community structure in biofilm. Process Biochemistry, 2007, 42, 1250-1253.	1.8	26
95	Chemical Oxygen Demand Reduction Of Various Wastewater Types Using Magnetic Field-assisted Fenton Reaction. Water Environment Research, 2004, 76, 301-309.	1.3	21
96	Effect of a constant magnetic field on water quality and rearing of European sheatfish Silurus glanis L. larvae. Aquaculture Research, 2004, 35, 568-573.	0.9	13
97	Development of new Lemnaceae breeding technology using Apol-humus and biogas plant waste. International Agrophysics, 0, , .	0.7	2