

Marcin DÄbowski

List of Publications by Year in descending order

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97
papers

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citations

331538

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97
all docs

97
docs citations

97
times ranked

1647
citing authors

#	ARTICLE	IF	CITATIONS
1	Algae biomass as an alternative substrate in biogas production technologies – Review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 27, 596-604.	8.2	188
2	Microalgae Cultivation Technologies as an Opportunity for Bioenergetic System Development – Advantages and Limitations. <i>Sustainability</i> , 2020, 12, 9980.	1.6	84
3	Impact of temperature, microwave radiation and organic loading rate on methanogenic community and biogas production during fermentation of dairy wastewater. <i>Bioresource Technology</i> , 2013, 129, 308-314.	4.8	51
4	Possibility of hydrogen production during cheese whey fermentation process by different strains of psychrophilic bacteria. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 1972-1978.	3.8	47
5	Optimisation of methane fermentation as a valorisation method for food waste products. <i>Biomass and Bioenergy</i> , 2021, 144, 105913.	2.9	45
6	Effects of Ultrasonic and Microwave Pretreatment on Lipid Extraction of Microalgae and Methane Production from the Residual Extracted Biomass. <i>Bioenergy Research</i> , 2021, 14, 752-760.	2.2	43
7	Influence of static magnetic field on sludge properties. <i>Science of the Total Environment</i> , 2018, 625, 738-742.	3.9	40
8	Evaluation of Anaerobic Digestion of Dairy Wastewater in an Innovative Multi-Section Horizontal Flow Reactor. <i>Energies</i> , 2020, 13, 2392.	1.6	37
9	Comparison of Ultrasonic and Hydrothermal Cavitation Pretreatments of Cattle Manure Mixed with Straw Wheat on Fermentative Biogas Production. <i>Waste and Biomass Valorization</i> , 2019, 10, 747-754.	1.8	33
10	The effects of Microalgae Biomass Co-Substrate on Biogas Production from the Common Agricultural Biogas Plants Feedstock. <i>Energies</i> , 2020, 13, 2186.	1.6	33
11	Effect of static magnetic field on microbial community during anaerobic digestion. <i>Bioresource Technology</i> , 2021, 323, 124600.	4.8	33
12	Cavitation-based pretreatment strategies to enhance biogas production in a small-scale agricultural biogas plant. <i>Energy for Sustainable Development</i> , 2019, 49, 21-26.	2.0	31
13	The Influence of Anaerobic Digestion Effluents (ADEs) Used as the Nutrient Sources for <i>Chlorella</i> sp. Cultivation on Fermentative Biogas Production. <i>Waste and Biomass Valorization</i> , 2017, 8, 1153-1161.	1.8	30
14	The Cultivation of Lipid-Rich Microalgae Biomass as Anaerobic Digestate Valorization Technology – A Pilot-Scale Study. <i>Processes</i> , 2020, 8, 517.	1.3	29
15	Assessment of Energy Storage from Photovoltaic Installations in Poland Using Batteries or Hydrogen. <i>Energies</i> , 2020, 13, 4023.	1.6	28
16	Optimizing low-temperature biogas production from biomass by anaerobic digestion. <i>Renewable Energy</i> , 2014, 69, 219-225.	4.3	27
17	The Effect of Static Magnetic Field on Methanogenesis in the Anaerobic Digestion of Municipal Sewage Sludge. <i>Energies</i> , 2021, 14, 590.	1.6	27
18	Influence of microwave radiation on bacterial community structure in biofilm. <i>Process Biochemistry</i> , 2007, 42, 1250-1253.	1.8	26

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19	Nitrification in Activated Sludge Exposed to Static Magnetic Field. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 126.	1.1	26
20	Influence of the Heating Method on the Efficiency of Biomethane Production from Expired Food Products. <i>Fermentation</i> , 2021, 7, 12.	1.4	26
21	Biological Activity of Hydrophilic Extract of <i>Chlorella vulgaris</i> Grown on Post-Fermentation Leachate from a Biogas Plant Supplied with Stillage and Maize Silage. <i>Molecules</i> , 2020, 25, 1790.	1.7	25
22	Comparison of microwave thermohydrolysis and liquid hot water pretreatment of energy crop <i>Sida hermaphrodita</i> for enhanced methane production. <i>Biomass and Bioenergy</i> , 2019, 128, 105324.	2.9	24
23	Effects of Liquid Digestate Treatment on Sustainable Microalgae Biomass Production. <i>Bioenergy Research</i> , 2022, 15, 357-370.	2.2	23
24	Technological Effectiveness of Sugar-Industry Effluent Methane Fermentation in a Fluidized Active Filling Reactor (FAF-R). <i>Energies</i> , 2020, 13, 6626.	1.6	22
25	Immobilized Microalgae-Based Photobioreactor for CO ₂ Capture (IMC-CO ₂ PBR): Efficiency Estimation, Technological Parameters, and Prototype Concept. <i>Atmosphere</i> , 2021, 12, 1031.	1.0	22
26	Chemical Oxygen Demand Reduction Of Various Wastewater Types Using Magnetic Field-assisted Fenton Reaction. <i>Water Environment Research</i> , 2004, 76, 301-309.	1.3	21
27	Application of Hydrodynamic Cavitation for Improving Methane Fermentation of <i>Sida hermaphrodita</i> Silage. <i>Energies</i> , 2019, 12, 526.	1.6	21
28	<i>Silphium perfoliatum</i> – A Herbaceous Crop with Increased Interest in Recent Years for Multi-Purpose Use. <i>Agriculture (Switzerland)</i> , 2020, 10, 640.	1.4	21
29	The influence of perforation of foil reactors on greenhouse gas emission rates during aerobic biostabilization of the undersize fraction of municipal wastes. <i>Journal of Environmental Management</i> , 2018, 207, 355-365.	3.8	20
30	Microalgal Hydrogen Production in Relation to Other Biomass-Based Technologies – A Review. <i>Energies</i> , 2021, 14, 6025.	1.6	20
31	Effects of Nutrients Supplementation on Enhanced Biogas Production from Maize Silage and Cattle Slurry Mixture. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	1.1	19
32	Optimizing Docosahexaenoic Acid (DHA) Production by <i>Schizochytrium</i> sp. Grown on Waste Glycerol. <i>Energies</i> , 2021, 14, 1685.	1.6	19
33	Effect of constant magnetic field on anaerobic digestion of algal biomass. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 1656-1663.	1.2	18
34	Estimation of operational parameters of the counter-rotating wind turbine with artificial neural networks. <i>Archives of Civil and Mechanical Engineering</i> , 2017, 17, 1019-1028.	1.9	18
35	Cultivation Method Effect on <i>Schizochytrium</i> sp. Biomass Growth and Docosahexaenoic Acid (DHA) Production with the Use of Waste Glycerol as a Source of Organic Carbon. <i>Energies</i> , 2021, 14, 2952.	1.6	17
36	Application of microwave radiation to biofilm heating during wastewater treatment in trickling filters. <i>Bioresource Technology</i> , 2013, 127, 223-230.	4.8	16

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37	The possibility of application of agglomerate elastomers (EPP) as media for biological bed in aquaculture. <i>Aquaculture Research</i> , 2018, 49, 2988-2994.	0.9	16
38	Ammonium removal on zeolite modified by ultrasound. <i>Desalination and Water Treatment</i> , 2016, 57, 8748-8753.	1.0	15
39	Microwave Radiation Influence on Dairy Waste Anaerobic Digestion in a Multi-Section Hybrid Anaerobic Reactor (M-SHAR). <i>Processes</i> , 2021, 9, 1772.	1.3	14
40	Effect of a constant magnetic field on water quality and rearing of European sheatfish <i>Silurus glanis</i> L. larvae. <i>Aquaculture Research</i> , 2004, 35, 568-573.	0.9	13
41	Biohydrogen production at low load of organic matter by psychrophilic bacteria. <i>Energy</i> , 2017, 134, 1132-1139.	4.5	13
42	Multi-Indicator Assessment of Innovative Small-Scale Biomethane Technologies in Europe. <i>Energies</i> , 2019, 12, 1321.	1.6	13
43	A Comparative Analysis of Emissions from a Compressionâ€œIgnition Engine Powered by Diesel, Rapeseed Biodiesel, and Biodiesel from <i>Chlorella protothecoides</i> Biomass Cultured under Different Conditions. <i>Atmosphere</i> , 2021, 12, 1099.	1.0	13
44	Influence of a light source on microalgae growth and subsequent anaerobic digestion of harvested biomass. <i>Biomass and Bioenergy</i> , 2016, 91, 243-249.	2.9	12
45	Biomass Production and Nutrient Removal by <i>Chlorella vulgaris</i> from Anaerobic Digestion Effluents. <i>Energies</i> , 2018, 11, 1654.	1.6	12
46	Anaerobic Digestion Effluents (ADEs) Treatment Coupling with <i>Chlorella</i> sp. Microalgae Production. <i>Water Environment Research</i> , 2018, 90, 155-163.	1.3	12
47	Effectiveness of <i>Scenedesmus</i> sp. Biomass Grow and Nutrients Removal from Liquid Phase of Digestates. <i>Energies</i> , 2020, 13, 1432.	1.6	12
48	Mechanical Pretreatment of Lignocellulosic Biomass for Methane Fermentation in Innovative Reactor with Cage Mixing System. <i>Journal of Ecological Engineering</i> , 2018, 19, 219-224.	0.5	12
49	Outflow from a Biogas Plant as a Medium for Microalgae Biomass Cultivationâ€œPilot Scale Study and Technical Concept of a Large-Scale Installation. <i>Energies</i> , 2022, 15, 2912.	1.6	12
50	Methanogenic archaeon as biogas producer in psychrophilic conditions. <i>Journal of Cleaner Production</i> , 2014, 76, 190-195.	4.6	11
51	Effect of magneto-active filling on the effectiveness of methane fermentation of dairy wastewaters. <i>International Journal of Green Energy</i> , 2022, 19, 455-462.	2.1	11
52	Effectiveness of dairy wastewater treatment in anaerobic reactors with magnetoactive filling. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 427-431.	1.3	11
53	Progress in the production of biogas from Virginia mallow after alkaline-heat pretreatment. <i>Biomass and Bioenergy</i> , 2019, 126, 174-180.	2.9	11
54	The Possibility of Using Macroalgae Biomass from Natural Reservoirs as a Substrate in the Methane Fermentation Process. <i>International Journal of Green Energy</i> , 2015, 12, 970-977.	2.1	10

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55	Influence of microwave heating on biogas production from <i>Sida hermaphrodita</i> silage. <i>Bioresource Technology</i> , 2017, 245, 1290-1293.	4.8	10
56	SIMULATED DAIRY WASTEWATER TREATMENT IN A PILOT PLANT SCALE MAGNETO-ACTIVE HYBRID ANAEROBIC BIOFILM REACTOR (MA-HABR). <i>Brazilian Journal of Chemical Engineering</i> , 2018, 35, 553-562.	0.7	10
57	Influence of preparation of <i>Sida hermaphrodita</i> silages on its conversion to methane. <i>Renewable Energy</i> , 2021, 163, 437-444.	4.3	10
58	Algae Biomass as a Potential Source of Liquid Fuels. <i>Phycology</i> , 2021, 1, 105-118.	1.7	10
59	Individual and Synergistic Effects of Metronidazole, Amoxicillin, and Ciprofloxacin on Methane Fermentation with Sewage Sludge. <i>Clean - Soil, Air, Water</i> , 2020, 48, 1900281.	0.7	9
60	Operational tests of a dual-rotor mini wind turbine. <i>Eksploracja I Niezawodnosc</i> , 2016, 18, 201-209.	1.1	9
61	Organic Compounds and Phosphorus Removal from Dairy Wastewater by Biofilm on Iron-Containing Supports. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, .	0.7	8
62	Progress in the Production of Biogas from Maize Silage after Acid-Heat Pretreatment. <i>Energies</i> , 2021, 14, 8018.	1.6	8
63	Efficiency of the Methane Fermentation Process of Macroalgae Biomass Originating from Puck Bay / WydajnoÅ Procesu Fermentacji Metanowej Biomasy MakroglonÅw PochodzÅcych Z Zatoki Puckiej. <i>Archives of Environmental Protection</i> , 2012, 38, .	1.1	7
64	Acquisition feasibility and methane fermentation effectiveness of biomass of microalgae occurring in eutrophicated aquifers on the example of the Vistula Lagoon. <i>International Journal of Green Energy</i> , 2016, 13, 395-407.	2.1	7
65	Hydrothermal Depolymerization of Virginia Fanpetals (<i>Sida Hermaphrodita</i>) Biomass with the Use of Microwave Radiation as a Potential Method for Substrate Pre-treatment Before the Process of Methane Fermentation. <i>Energy Procedia</i> , 2017, 105, 694-699.	1.8	7
66	Anaerobic Reactor Filling for Phosphorus Removal by Metal Dissolution Method. <i>Materials</i> , 2022, 15, 2263.	1.3	7
67	The effect of pressure and temperature pretreatment on the biogas output from algal biomass. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 693-698.	1.2	6
68	Effect of a static magnetic field on activated sludge community. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 693-698.	1.2	6
69	Anaerobic digestion of microalgae for biomethane production. , 2019, , 405-436.		6
70	Evaluation of the Properties and Usefulness of Ashes from the Corn Grain Drying Process Biomass. <i>Energies</i> , 2020, 13, 1290.	1.6	6
71	Comparison of Energy Consumption of Cereal Grain Dryer Powered by LPG and Hard Coal in Polish Conditions. <i>Energies</i> , 2021, 14, 4340.	1.6	6
72	Application of an Innovative Ultrasound Disintegrator for Sewage Sludge Conditioning Before Methane Fermentation. <i>Journal of Ecological Engineering</i> , 2018, 19, 240-247.	0.5	6

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73	The Effect of Electromagnetic Microwave Radiation on Methane Fermentation of Selected Energy Crop Species. <i>Processes</i> , 2022, 10, 45.	1.3	6
74	Effect of the Application of Advanced Oxidation Technology on the Effectiveness of Anaerobic Treatment of Wastewaters with a High Concentration of Formaldehyde. <i>Archives of Environmental Protection</i> , 2013, 39, 81-91.	1.1	5
75	Inhibition of Methane Fermentation by Antibiotics Introduced to Municipal Anaerobic Sludge. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	5
76	Microwave support of the alcoholic fermentation process of cyanobacteria <i>Arthrospira platensis</i> . <i>Environmental Science and Pollution Research</i> , 2020, 27, 118-124.	2.7	5
77	Efficiency of sweet whey fermentation with psychrophilic methanogens. <i>Environmental Science and Pollution Research</i> , 2021, 28, 49314-49323.	2.7	5
78	The Effect of Autotrophic Cultivation of <i>Platymonas subcordiformis</i> in Waters from the Natural Aquatic Reservoir on Hydrogen Yield. <i>Resources</i> , 2022, 11, 31.	1.6	5
79	Efficiency of methane fermentation of waste microalgae biomass (WMAB) collected in processes of reclamation of eutrophicated water reservoirs. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	4
80	Enhancement of Dairy Wastewater Treatment in a Combined Anaerobic Baffled and Biofilm Reactor with Magneto-Active Packing Media. <i>Journal of Ecological Engineering</i> , 2018, 19, 165-171.	0.5	4
81	Influence of Ultrasonic Disintegration on Efficiency of Methane Fermentation of <i>Sida hermaphrodita</i> Silage. <i>Journal of Ecological Engineering</i> , 2018, 19, 128-134.	0.5	4
82	Influence of the Fertilization Method on the <i>Silphium perfoliatum</i> Biomass Composition and Methane Fermentation Efficiency. <i>Energies</i> , 2022, 15, 927.	1.6	4
83	Optimization of Lipid Production by <i>Schizochytrium limacinum</i> Biomass Modified with Ethyl Methane Sulfonate and Grown on Waste Glycerol. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 3108.	1.2	4
84	Wastewater Treatment and Biogas Production: Innovative Technologies, Research and Development Directions. <i>Energies</i> , 2022, 15, 2122.	1.6	4
85	Analysis of the Long-Term Mass Balance and Efficiency of Waste Recovery in a Municipal Waste Biodrying Plant. <i>Energies</i> , 2021, 14, 7711.	1.6	3
86	Multifaceted Analysis of the Use of Catalytic Additives for Combustion with Hemp Pellets in a Low-Power Boiler. <i>Energies</i> , 2022, 15, 2034.	1.6	3
87	Concept of a Technological System for Microalgae Biomass Production with the Use of Effluents from Fermentation Tanks. <i>Energy Procedia</i> , 2017, 105, 681-687.	1.8	2
88	The Possibility of Hybrid-Bioreactor Heating by the Microwave Radiation. <i>International Journal of Chemical Reactor Engineering</i> , 2018, 16, .	0.6	2
89	Development of new Lemnaceae breeding technology using Apol-humus and biogas plant waste. <i>International Agrophysics</i> , 0, , .	0.7	2
90	<i>Helianthus salicifolius</i> as a New Biomass Source for Biogas Production. <i>Energies</i> , 2022, 15, 2921.	1.6	2

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91	Phosphorus Removal in Anaerobic Fluidized Bed Reactor with Active Microporous Filling Produced by Extrusion Technology. <i>Solid State Phenomena</i> , 2015, 237, 295-300.	0.3	1
92	Microwave Heating Impact on the Oil Yield from <i>Botryococcus braunii</i> Algae Biomass. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	1
93	Microwave Support of the Alcoholic Fermentation Process of <i>Cyanobacteria Arthrospira platensis</i> . <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	1
94	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 <i>Schizochytrium</i> sp. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9573.	1.3	1
95	Enhancement of sedimentation and coagulation with static magnetic field. <i>E3S Web of Conferences</i> , 2017, 22, 00203.	0.2	0
96	Effect of Inorganic Coagulants on the Characteristics in Anaerobic Digested Distillery Stillage Valorization. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	0
97	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€œS.A.. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, .	0.8	0