

Marcin Zieliński

List of Publications by Year in descending order

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110
papers

1,867
citations

257101

24
h-index

344852

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g-index

111
all docs

111
docs citations

111
times ranked

1830
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	Biodegradability evaluation of dairy effluents originated in selected sections of dairy production. <i>Bioresource Technology</i> , 2008, 99, 4199-4205.	4.8	123
3	Microalgae Cultivation Technologies as an Opportunity for Bioenergetic System Development – Advantages and Limitations. <i>Sustainability</i> , 2020, 12, 9980.	1.6	84
4	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
5	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
6	Optimisation of methane fermentation as a valorisation method for food waste products. <i>Biomass and Bioenergy</i> , 2021, 144, 105913.	2.9	45
7	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
8	Influence of static magnetic field on sludge properties. <i>Science of the Total Environment</i> , 2018, 625, 738-742.	3.9	40
9	Evaluation of Anaerobic Digestion of Dairy Wastewater in an Innovative Multi-Section Horizontal Flow Reactor. <i>Energies</i> , 2020, 13, 2392.	1.6	37
10	Improvement of biohydrogen production using a reduced pressure fermentation. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1925-1933.	1.7	34
11	New Approaches and Understandings in the Growth of Cubic Silicon Carbide. <i>Materials</i> , 2021, 14, 5348.	1.3	34
12	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
13	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
14	Effect of static magnetic field on microbial community during anaerobic digestion. <i>Bioresource Technology</i> , 2021, 323, 124600.	4.8	33
15	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
16	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
17	Anaerobic Co-digestion of the Energy Crop <i>Sida hermaphrodita</i> and Microalgae Biomass for Enhanced Biogas Production. <i>International Journal of Environmental Research</i> , 2017, 11, 243-250.	1.1	29
18	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

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19	Optimizing low-temperature biogas production from biomass by anaerobic digestion. <i>Renewable Energy</i> , 2014, 69, 219-225.	4.3	27
20	Evaluation of Ultrasound Pretreatment for Enhanced Anaerobic Digestion of <i>Sida hermaphrodita</i> . <i>Bioenergy Research</i> , 2020, 13, 824-832.	2.2	27
21	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
22	Influence of microwave radiation on bacterial community structure in biofilm. <i>Process Biochemistry</i> , 2007, 42, 1250-1253.	1.8	26
23	Nitrification in Activated Sludge Exposed to Static Magnetic Field. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 126.	1.1	26
24	Influence of the Heating Method on the Efficiency of Biomethane Production from Expired Food Products. <i>Fermentation</i> , 2021, 7, 12.	1.4	26
25	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
26	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
27	Effects of Liquid Digestate Treatment on Sustainable Microalgae Biomass Production. <i>Bioenergy Research</i> , 2022, 15, 357-370.	2.2	23
28	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
29	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
30	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
31	Application of Hydrodynamic Cavitation for Improving Methane Fermentation of <i>Sida hermaphrodita</i> Silage. <i>Energies</i> , 2019, 12, 526.	1.6	21
32	Microalgal Hydrogen Production in Relation to Other Biomass-Based Technologies – A Review. <i>Energies</i> , 2021, 14, 6025.	1.6	20
33	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
34	Optimizing Docosahexaenoic Acid (DHA) Production by <i>Schizochytrium</i> sp. Grown on Waste Glycerol. <i>Energies</i> , 2021, 14, 1685.	1.6	19
35	Effect of constant magnetic field on anaerobic digestion of algal biomass. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 1656-1663.	1.2	18
36	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

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37	Application of microwave radiation to biofilm heating during wastewater treatment in trickling filters. <i>Bioresource Technology</i> , 2013, 127, 223-230.	4.8	16
38	Biodegradability evaluation of wastewaters from malt and beer production. <i>Journal of the Institute of Brewing</i> , 2013, 119, 242-250.	0.8	15
39	Ammonium removal on zeolite modified by ultrasound. <i>Desalination and Water Treatment</i> , 2016, 57, 8748-8753.	1.0	15
40	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
41	Microwave radiation and reactor design influence microbial communities during methane fermentation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 1397-1405.	1.4	13
42	Biohydrogen production at low load of organic matter by psychrophilic bacteria. <i>Energy</i> , 2017, 134, 1132-1139.	4.5	13
43	Water from the Vistula Lagoon as a medium in mixotrophic growth and hydrogen production by <i>Platymonas subcordiformis</i> . <i>International Journal of Hydrogen Energy</i> , 2018, 43, 9529-9534.	3.8	13
44	Multi-Indicator Assessment of Innovative Small-Scale Biomethane Technologies in Europe. <i>Energies</i> , 2019, 12, 1321.	1.6	13
45	A Comparative Analysis of Emissions from a Compression-Ignition 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
46	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
47	Biomass Production and Nutrient Removal by <i>Chlorella vulgaris</i> from Anaerobic Digestion Effluents. <i>Energies</i> , 2018, 11, 1654.	1.6	12
48	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
49	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
50	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
51	Outflow from a Biogas Plant as a Medium for Microalgae Biomass Cultivation—Pilot Scale Study and Technical Concept of a Large-Scale Installation. <i>Energies</i> , 2022, 15, 2912.	1.6	12
52	Methanogenic archaeon as biogas producer in psychrophilic conditions. <i>Journal of Cleaner Production</i> , 2014, 76, 190-195.	4.6	11
53	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
54	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

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55	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
56	Measurement of Residual Stress and Young's Modulus on Micromachined Monocrystalline 3C-SiC Layers Grown on 111 and 100 Silicon. <i>Micromachines</i> , 2021, 12, 1072.	1.4	11
57	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
58	Influence of microwave heating on biogas production from <i>Sida hermaphrodita</i> silage. <i>Bioresource Technology</i> , 2017, 245, 1290-1293.	4.8	10
59	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
60	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
61	Algae Biomass as a Potential Source of Liquid Fuels. <i>Phycology</i> , 2021, 1, 105-118.	1.7	10
62	The Effect of Microwave Electromagnetic Radiation on Organic Compounds Removal Efficiency in a Reactor with a Biofilm. <i>Environmental Technology (United Kingdom)</i> , 2007, 28, 41-47.	1.2	9
63	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
64	Possibility of improving technological effectiveness of dairy wastewater treatment through application of active fillings and microwave radiation. <i>Journal of Water Chemistry and Technology</i> , 2016, 38, 342-348.	0.2	8
65	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
66	Progress in the Production of Biogas from Maize Silage after Acid-Heat Pretreatment. <i>Energies</i> , 2021, 14, 8018.	1.6	8
67	Liquid fraction of digestate pretreated with membrane filtration for cultivation of <i>Chlorella vulgaris</i> . <i>Waste Management</i> , 2022, 146, 1-10.	3.7	8
68	Impact of microwave radiation on nitrogen removal and quantity of nitrifiers in biofilmA paper submitted to the <i>Journal of Environmental Engineering and Science.. Canadian Journal of Civil Engineering</i> , 2010, 37, 661-666.	0.7	7
69	Efficiency of the Methane Fermentation Process of Macroalgae Biomass Originating from Puck Bay / WydajnoÅ Procesu Fermentacji Metanowej Biomasy MakroglonÅ PochodzÅcych Z Zatoki Puckiej. <i>Archives of Environmental Protection</i> , 2012, 38, .	1.1	7
70	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
71	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
72	Anaerobic Reactor Filling for Phosphorus Removal by Metal Dissolution Method. <i>Materials</i> , 2022, 15, 2263.	1.3	7

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73	Respirometric studies on the effectiveness of biogas production from wastewaters originating from dairy, sugar and tanning industry. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1439-1446.	1.2	6
74	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
75	Effect of a static magnetic field on activated sludge community. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 1078-1084.	1.2	6
76	Effect of Lighting on the Intensification of Phycocyanin Production in a Culture of <i>Arthrospira platensis</i> . <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	6
77	Anaerobic digestion of microalgae for biomethane production. , 2019, , 405-436.		6
78	Removal of biogenic compounds from the post-fermentation effluent in a culture of <i>Chlorella vulgaris</i> . <i>Environmental Science and Pollution Research</i> , 2020, 27, 111-117.	2.7	6
79	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
80	The Effect of Electromagnetic Microwave Radiation on Methane Fermentation of Selected Energy Crop Species. <i>Processes</i> , 2022, 10, 45.	1.3	6
81	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
82	Effect of taxonomic diversification of microalgae harvested from eutrophicated reservoirs on the chemical composition of biomass and effectiveness of methane fermentation. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 858-865.	1.3	5
83	Inhibition of Methane Fermentation by Antibiotics Introduced to Municipal Anaerobic Sludge. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	5
84	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
85	Efficiency of sweet whey fermentation with psychrophilic methanogens. <i>Environmental Science and Pollution Research</i> , 2021, 28, 49314-49323.	2.7	5
86	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
87	Effectiveness of dairy wastewater treatment in a bioreactor based on the integrated technology of activated sludge and hydrophyte system. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 1350-1357.	1.2	4
88	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
89	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
90	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

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91	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
92	Wastewater Treatment and Biogas Production: Innovative Technologies, Research and Development Directions. Energies, 2022, 15, 2122.	1.6	4
93	Nitrogen Compounds Transformation in the Biological Filter by Means of Direct Energy Supply to the Biofilm. Environmental Technology (United Kingdom), 2006, 27, 1369-1375.	1.2	3
94	The View of Usefulness the Hydrogen Peroxide (H ₂ O ₂) and Solid Magnetic Field (SMF) in the COD Reduction Value in Meat Industry Wastewater. Polish Journal of Natural Sciences, 2008, 23, 825-836.	0.7	3
95	The effect of biomass separation method on the efficiency of hydrogen production by Platymonas subcordiformis. International Journal of Energy and Environmental Engineering, 0, , .	1.3	3
96	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
97	The Possibility of Hybrid-Bioreactor Heating by the Microwave Radiation. International Journal of Chemical Reactor Engineering, 2018, 16, .	0.6	2
98	The Influence of Solid Magnetic Field (SMF) on Pseudo-Fenton's Reaction of Efficiency in Meat Industry Sewages Treatment. Polish Journal of Natural Sciences, 2008, 23, 837-849.	0.7	2
99	Development of new Lemnaceae breeding technology using Apol-humus and biogas plant waste. International Agrophysics, 0, , .	0.7	2
100	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
101	Purification of Post-Fermentation Effluent Using Chlorella vulgaris Microalgae. Proceedings (mdpi), 2018, 2, 1285.	0.2	1
102	Microwave Heating Impact on the Oil Yield from Botryococcus braunii Algae Biomass. Proceedings (mdpi), 2018, 2, .	0.2	1
103	Microwave Support of the Alcoholic Fermentation Process of Cyanobacteria Arthrospira platensis. Proceedings (mdpi), 2018, 2, .	0.2	1
104	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
105	EFFICIENCY OF ANAEROBIC DECOMPOSITION OF MANURE FROM CATTLE FED WITH SIDA HERMAPHRODITA SILAGE. , 0, , .		1
106	Impact of microwave radiation on nitrogen removal and quantity of nitrifiers in biofilm. Journal of Environmental Engineering and Science, 2013, 8, 520-525.	0.3	0
107	Enhancement of sedimentation and coagulation with static magnetic field. E3S Web of Conferences, 2017, 22, 00203.	0.2	0
108	Effect of Inorganic Coagulants on the Characteristics in Anaerobic Digested Distillery Stillage Valorization. Proceedings (mdpi), 2018, 2, .	0.2	0

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109	The Influence of Constant Magnetic Field on Ozonolysis of Detergent Rokafenol N8. Polish Journal of Natural Sciences, 2007, 22, 500-511.	0.7	0
110	Applicability of water from the Bay of Gdańsk as a growth medium for mixotrophic culture of <i>Platymonas subcordiformis</i> . Frontiers in Bioscience - Elite, 2022, 14, 5.	0.9	0