

# Andrzej BiaÅ,owiec

## List of Publications by Year in descending order

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88  
papers

1,367  
citations

430442

18  
h-index

433756

31  
g-index

104  
all docs

104  
docs citations

104  
times ranked

1173  
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of evapotranspiration on vertical flow subsurface constructed wetland performance. <i>Ecological Engineering</i> , 2014, 67, 89-94.	1.6	71
2	The Effect of Biochar Addition on the Biogas Production Kinetics from the Anaerobic Digestion of Brewersâ€™ Spent Grain. <i>Energies</i> , 2019, 12, 1518.	1.6	61
3	Nitrogen removal from wastewater in vertical flow constructed wetlands containing LWA/gravel layers and reed vegetation. <i>Ecological Engineering</i> , 2011, 37, 897-902.	1.6	60
4	The RDF/SRF torrefaction: An effect of temperature on characterization of the product â€“ Carbonized Refuse Derived Fuel. <i>Waste Management</i> , 2017, 70, 91-100.	3.7	57
5	The influence of plants on nitrogen removal from landfill leachate in discontinuous batch shallow constructed wetland with recirculating subsurface horizontal flow. <i>Ecological Engineering</i> , 2012, 40, 44-52.	1.6	56
6	The efficiency of evapotranspiration of landfill leachate in the soilâ€“plant system with willow <i>Salix amygdalina</i> L.. <i>Ecological Engineering</i> , 2007, 30, 356-361.	1.6	50
7	Nitrogen removal from landfill leachate in constructed wetlands with reed and willow: Redox potential in the root zone. <i>Journal of Environmental Management</i> , 2012, 97, 22-27.	3.8	50
8	Torrefaction of Sewage Sludge: Kinetics and Fuel Properties of Biochars. <i>Energies</i> , 2019, 12, 565.	1.6	44
9	Anaerobic fermentation of hydrothermal liquefaction wastewater of dewatered sewage sludge for volatile fatty acids production with focuses on the degradation of organic components and microbial community compositions. <i>Science of the Total Environment</i> , 2021, 777, 146077.	3.9	42
10	The pyrolysis and gasification of digestate from agricultural biogas plant / Pirolyza i gazyfikacja pofermentu z biogazowni rolniczych. <i>Archives of Environmental Protection</i> , 2015, 41, 70-75.	1.1	41
11	Waste to Carbon: Densification of Torrefied Refuse-Derived Fuel. <i>Energies</i> , 2018, 11, 3233.	1.6	41
12	Proof-of-Concept of Spent Mushrooms Compost Torrefactionâ€“Studying the Process Kinetics and the Influence of Temperature and Duration on the Calorific Value of the Produced Biocoal. <i>Energies</i> , 2019, 12, 3060.	1.6	30
13	Waste to phosphorus: A transdisciplinary solution to P recovery from wastewater based on the TRIZ approach. <i>Journal of Environmental Management</i> , 2021, 287, 112235.	3.8	28
14	Waste to Carbon: Biocoal from Elephant Dung as New Cooking Fuel. <i>Energies</i> , 2019, 12, 4344.	1.6	27
15	Is the biochar produced from sewage sludge a good quality solid fuel?. <i>Archives of Environmental Protection</i> , 2016, 42, 125-134.	1.1	26
16	Oxytree Pruned Biomass Torrefaction: Process Kinetics. <i>Materials</i> , 2019, 12, 3334.	1.3	24
17	Analysis of the Spatial and Temporal Distribution of Process Gases within Municipal Biowaste Compost. <i>Sustainability</i> , 2019, 11, 2340.	1.6	22
18	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

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19	Fuel Properties of Torrefied Biomass from Pruning of Oxytree. <i>Data</i> , 2019, 4, 55.	1.2	19
20	Thermogravimetric and Calorimetric Characteristics of Alternative Fuel in Terms of Its Use in Low-Temperature Pyrolysis. <i>Waste and Biomass Valorization</i> , 2019, 10, 1669-1677.	1.8	19
21	Waste-to-Carbon: Is the Torrefied Sewage Sludge with High Ash Content a Better Fuel or Fertilizer?. <i>Materials</i> , 2020, 13, 954.	1.3	19
22	Phytotoxicity of landfill leachate on willow "Salix amygdalina L.. <i>Waste Management</i> , 2010, 30, 1587-1593.	3.7	18
23	Oxytree Pruned Biomass Torrefaction: Mathematical Models of the Influence of Temperature and Residence Time on Fuel Properties Improvement. <i>Materials</i> , 2019, 12, 2228.	1.3	18
24	The Biotic and Abiotic Carbon Monoxide Formation During Aerobic Co-digestion of Dairy Cattle Manure With Green Waste and Sawdust. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 283.	2.0	18
25	Diurnal cycling of dissolved gas concentrations in a willow vegetation filter treating landfill leachate. <i>Ecological Engineering</i> , 2010, 36, 1680-1685.	1.6	17
26	Opportunities and Challenges of High-Pressure Fast Pyrolysis of Biomass: A Review. <i>Energies</i> , 2021, 14, 5426.	1.6	17
27	Effectiveness of leachate disposal by the young willow sprouts <i>Salix amygdalina</i> . <i>Waste Management and Research</i> , 2003, 21, 557-566.	2.2	15
28	Oxygen transfer capacity of willow ( <i>Salix viminalis</i> L.). <i>Biomass and Bioenergy</i> , 2011, 35, 2306-2309.	2.9	15
29	Mitigation of Gaseous Emissions from Swine Manure with the Surficial Application of Biochars. <i>Atmosphere</i> , 2020, 11, 1179.	1.0	15
30	Low-Temperature Pyrolysis of Municipal Solid Waste Components and Refuse-Derived Fuel"Process Efficiency and Fuel Properties of Carbonized Solid Fuel. <i>Data</i> , 2020, 5, 48.	1.2	15
31	Spatial variation of dissolved gas concentrations in a willow vegetation filter treating landfill leachate. <i>Ecological Engineering</i> , 2010, 36, 1774-1778.	1.6	14
32	The Spatial and Temporal Distribution of Process Gases within the Biowaste Compost. <i>Data</i> , 2019, 4, 37.	1.2	14
33	Phosphorus Recovery from Sewage Sludge Ash Based on Cradle-to-Cradle Approach"Mini-Review. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 985.	0.8	14
34	Recycling potential of air pollution control residue from sewage sludge thermal treatment as artificial lightweight aggregates. <i>Waste Management and Research</i> , 2014, 32, 221-227.	2.2	13
35	The-Proof-of-Concept of Biochar Floating Cover Influence on Water pH. <i>Water (Switzerland)</i> , 2019, 11, 1802.	1.2	13
36	Waste to Carbon: Estimating the Energy Demand for Production of Carbonized Refuse-Derived Fuel. <i>Sustainability</i> , 2019, 11, 5685.	1.6	13

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37	The Impact of Surficial Biochar Treatment on Acute H <sub>2</sub> S Emissions during Swine Manure Agitation before Pump-Out: Proof-of-the-Concept. <i>Catalysts</i> , 2020, 10, 940.	1.6	12
38	The Influence of Low-Temperature Food Waste Biochars on Anaerobic Digestion of Food Waste. <i>Materials</i> , 2022, 15, 945.	1.3	12
39	Carbon Monoxide Fate in the Environment as an Inspiration For Biorefinery Industry: A Review. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	12
40	Quantification of VOC Emissions from Carbonized Refuse-Derived Fuel Using Solid-Phase Microextraction and Gas Chromatography-Mass Spectrometry. <i>Molecules</i> , 2018, 23, 3208.	1.7	11
41	The Oxygen Transfer Capacity of Submerged Plant <i>Elodea densa</i> in Wastewater Constructed Wetlands. <i>Water (Switzerland)</i> , 2019, 11, 575.	1.2	11
42	The Proof-of-the Concept of Biochar Floating Cover Influence on Swine Manure pH: Implications for Mitigation of Gaseous Emissions From Area Sources. <i>Frontiers in Chemistry</i> , 2020, 8, 656.	1.8	11
43	Emissions from Swine Manure Treated with Current Products for Mitigation of Odors and Reduction of NH <sub>3</sub> , H <sub>2</sub> S, VOC, and GHG Emissions. <i>Data</i> , 2020, 5, 54.	1.2	11
44	Waste to Energy: Solid Fuel Production from Biogas Plant Digestate and Sewage Sludge by Torrefaction-Process Kinetics, Fuel Properties, and Energy Balance. <i>Energies</i> , 2020, 13, 3161.	1.6	11
45	Municipal Solid Waste Thermal Analysis—Pyrolysis Kinetics and Decomposition Reactions. <i>Energies</i> , 2021, 14, 4510.	1.6	11
46	Characterization and Sodium Cations Sorption Capacity of Chemically Modified Biochars Produced from Agricultural and Forestry Wastes. <i>Materials</i> , 2021, 14, 4714.	1.3	11
47	The Prediction of Calorific Value of Carbonized Solid Fuel Produced from Refuse-Derived Fuel in the Low-Temperature Pyrolysis in CO <sub>2</sub> . <i>Materials</i> , 2021, 14, 49.	1.3	11
48	The Reuse of Biomass and Industrial Waste in Biocomposite Construction Materials for Decreasing Natural Resource Use and Mitigating the Environmental Impact of the Construction Industry: A Review. <i>Materials</i> , 2022, 15, 4078.	1.3	11
49	Using fractal geometry to determine phytotoxicity of landfill leachate on willow. <i>Chemosphere</i> , 2010, 79, 534-540.	4.2	10
50	Waste to Carbon Energy Demand Model and Data Based on the TGA and DSC Analysis of Individual MSW Components. <i>Data</i> , 2019, 4, 53.	1.2	10
51	Waste to Carbon: Influence of Structural Modification on VOC Emission Kinetics from Stored Carbonized Refuse-Derived Fuel. <i>Sustainability</i> , 2019, 11, 935.	1.6	10
52	Mitigation of Gaseous Emissions from Stored Swine Manure with Biochar: Effect of Dose and Reapplication on a Pilot-Scale. <i>Atmosphere</i> , 2021, 12, 96.	1.0	10
53	KINETIC PARAMETERS OF TORREFACTION PROCESS OF ALTERNATIVE FUEL PRODUCED FROM MUNICIPAL SOLID WASTE AND CHARACTERISTIC OF CARBONIZED REFUSE DERIVED FUEL. <i>Detritus</i> , 2018, In Press, 1.	0.4	10
54	Transpiration as landfill leachate phytotoxicity indicator. <i>Waste Management</i> , 2015, 39, 189-196.	3.7	9

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55	Is Biochar from the Torrefaction of Sewage Sludge Hazardous Waste?. <i>Materials</i> , 2020, 13, 3544.	1.3	9
56	Lab-Scale Study of Temperature and Duration Effects on Carbonized Solid Fuels Properties Produced from Municipal Solid Waste Components. <i>Materials</i> , 2021, 14, 1191.	1.3	9
57	The controlling of landfill leachate evapotranspiration from soil-plant systems with willow: <i>Salix amygdalina</i> L. <i>Waste Management and Research</i> , 2007, 25, 61-67.	2.2	8
58	Mitigation of Odor, NH <sub>3</sub> , H <sub>2</sub> S, GHG, and VOC Emissions With Current Products for Use in Deep-Pit Swine Manure Storage Structures. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	8
59	Valorization of Sewage Sludge via Gasification and Transportation of Compressed Syngas. <i>Processes</i> , 2019, 7, 556.	1.3	7
60	The Proof-of-the-Concept of Application of Pelletization for Mitigation of Volatile Organic Compounds Emissions from Carbonized Refuse-Derived Fuel. <i>Materials</i> , 2019, 12, 1692.	1.3	7
61	The efficiency of landfill leachate evapotranspiration in soil-plant system with reed <i>Phragmites australis</i> . <i>Ecohydrology and Hydrobiology</i> , 2007, 7, 331-337.	1.0	6
62	Kinetics of Biotic and Abiotic CO Production during the Initial Phase of Biowaste Composting. <i>Energies</i> , 2020, 13, 5451.	1.6	6
63	Modeling of CO Accumulation in the Headspace of the Bioreactor during Organic Waste Composting. <i>Energies</i> , 2021, 14, 1367.	1.6	6
64	Mitigation of Acute Ammonia Emissions With Biochar During Swine Manure Agitation Before Pump-Out: Proof-of-the-Concept. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	6
65	Synergy of Thermochemical Treatment of Dried Distillers Grains with Solubles with Bioethanol Production for Increased Sustainability and Profitability. <i>Energies</i> , 2020, 13, 4528.	1.6	5
66	Aerobic Biostabilization of the Organic Fraction of Municipal Solid Waste—Monitoring Hot and Cold Spots in the Reactor as a Novel Tool for Process Optimization. <i>Materials</i> , 2022, 15, 3300.	1.3	5
67	Nitrogen Removal in Vertical-Flow Filters Filled with Lightweight Aggregate Made of Fly Ashes and Gravel. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 1266-1272.	0.7	4
68	Stomatal Conductance Measurement for Toxicity Assessment in Zero-Effluent Constructed Wetlands: Effects of Landfill Leachate on Hydrophytes. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 468.	1.2	4
69	Medical Peat Waste Upcycling to Carbonized Solid Fuel in the Torrefaction Process. <i>Energies</i> , 2021, 14, 6053.	1.6	4
70	Effect of Temperature and Heating Rate on the Char Yield in Sorghum and Straw Slow Pyrolysis. <i>Revista De Chimie (discontinued)</i> , 2017, 68, 576-580.	0.2	4
71	Ammonia Nitrogen Transformations in a Reactor with Aggregate made of Sewage Sludge Combustion Fly Ash. <i>Water Environment Research</i> , 2016, 88, 715-723.	1.3	3
72	Organic Waste Torrefaction — A Review: Reactor Systems, and the Biochar Properties. , 0, , .		3

#	ARTICLE	IF	CITATIONS
73	Proof-of-Concept of High-Pressure Torrefaction for Improvement of Pelletized Biomass Fuel Properties and Process Cost Reduction. <i>Energies</i> , 2020, 13, 4790.	1.6	3
74	Enhanced Production of Biogas Using Biochar-Sulfur Composite in the Methane Fermentation Process. <i>Materials</i> , 2022, 15, 4517.	1.3	3
75	The landfill leachate evapotranspiration in soil plant system with reed <i>Phragmites australis</i> . <i>International Journal of Environment and Waste Management</i> , 2008, 2, 526.	0.2	2
76	Carbon Monoxide Formation during Aerobic Biostabilization of the Organic Fraction of Municipal Solid Waste: The Influence of Technical Parameters in a Full-Scale Treatment System. <i>Energies</i> , 2020, 13, 5624.	1.6	2
77	Oxygen Transfer Capacity as a Measure of Water Aeration by Floating Reed Plants: Initial Laboratory Studies. <i>Processes</i> , 2020, 8, 1270.	1.3	2
78	Wykorzystanie pomiaru aktywności oddechowej do wyznaczania zawartości atomu biodegradowalnej materii organicznej w odpadach. <i>Przemysł Chemiczny</i> , 2017, 1, 112-115.	0.0	1
79	The influence of leachate recirculation on biogas production in a landfill bioreactor. <i>Environmental Protection Engineering</i> , 2017, 43, .	0.1	1
80	The Proof-of-Concept: The Transformation of Naphthalene and Its Derivatives into Decalin and Its Derivatives during Thermochemical Processing of Sewage Sludge. <i>Energies</i> , 2021, 14, 6479.	1.6	1
81	Mathematical modeling of torrefaction of refuse-derived alternative fuel Modelowanie matematyczne toryfikacji paliwa pochodzącego z odpadów. <i>Przemysł Chemiczny</i> , 2017, 1, 227-231.	0.0	1
82	Willows and Reeds for Biomediation of Landfill Leachate: Redox Potential in the Root Zone. <i>Linnaeus Eco-Tech</i> , 0, , 877-886.	0.0	1
83	The biogas production during co-fermentation of sewage sludge and oil waste. <i>Journal of Biotechnology</i> , 2010, 150, 252-252.	1.9	0
84	Ocena efektywności biosuszenia i biostabilizacji odpadów komunalnych w reaktorach z membranami półprzepuszczalnymi. <i>Gaz, Woda; Technika Sanitarna</i> , 2016, 1, 24-26.	0.0	0
85	Emisja lotnych związków organicznych z karbonizowanego paliwa z odpadów. <i>Przemysł Chemiczny</i> , 2019, 1, 103-105.	0.0	0
86	Rezim technologiczny kompostowania osadów ściekowych z bioodpadami w pryzmach przerzucanych. Bilans metali ciężkich oraz makro- i mikrośladników. <i>Przemysł Chemiczny</i> , 2019, 1, 46-49.	0.0	0
87	Carbonized Solid Fuel Production from Polylactic Acid and Paper Waste Due to Torrefaction. <i>Materials</i> , 2021, 14, 7051.	1.3	0
88	Composting of vegan kitchen waste: applicability assessment. <i>Detritus</i> , 2022, , 49-62.	0.4	0