Andrzej BiaÅ‚owiec

List of Publications by Year
in descending order

88	1,367	430442	433756
papers	citations	18 h-index	31 g-index

104	104	104	1173
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Influence of Low-Temperature Food Waste Biochars on Anaerobic Digestion of Food Waste. Materials, 2022, 15, 945.	1.3	12
2	Carbon Monoxide Fate in the Environment as an Inspiration For Biorefinery Industry: A Review. Frontiers in Environmental Science, 2022, 10, .	1.5	12
3	Aerobic Biostabilization of the Organic Fraction of Municipal Solid Wasteâ€"Monitoring Hot and Cold Spots in the Reactor as a Novel Tool for Process Optimization. Materials, 2022, 15, 3300.	1.3	5
4	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. Materials, 2022, 15, 4078.	1.3	11
5	Composting of vegan kitchen waste: applicability assessment. Detritus, 2022, , 49-62.	0.4	0
6	Enhanced Production of Biogas Using Biocharâ€"Sulfur Composite in the Methane Fermentation Process. Materials, 2022, 15, 4517.	1.3	3
7	Mitigation of Gaseous Emissions from Stored Swine Manure with Biochar: Effect of Dose and Reapplication on a Pilot-Scale. Atmosphere, 2021, 12, 96.	1.0	10
8	Lab-Scale Study of Temperature and Duration Effects on Carbonized Solid Fuels Properties Produced from Municipal Solid Waste Components. Materials, 2021, 14, 1191.	1.3	9
9	Modeling of CO Accumulation in the Headspace of the Bioreactor during Organic Waste Composting. Energies, 2021, 14, 1367.	1.6	6
10	Mitigation of Acute Ammonia Emissions With Biochar During Swine Manure Agitation Before Pump-Out: Proof-of-the-Concept. Frontiers in Environmental Science, 2021, 9, .	1.5	6
11	Waste to phosphorus: A transdisciplinary solution to P recovery from wastewater based on the TRIZ approach. Journal of Environmental Management, 2021, 287, 112235.	3.8	28
12	Municipal Solid Waste Thermal Analysisâ€"Pyrolysis Kinetics and Decomposition Reactions. Energies, 2021, 14, 4510.	1.6	11
13	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. Science of the Total Environment, 2021, 777, 146077.	3.9	42
14	Opportunities and Challenges of High-Pressure Fast Pyrolysis of Biomass: A Review. Energies, 2021, 14, 5426.	1.6	17
15	Characterization and Sodium Cations Sorption Capacity of Chemically Modified Biochars Produced from Agricultural and Forestry Wastes. Materials, 2021, 14, 4714.	1.3	11
16	Phosphorus Recovery from Sewage Sludge Ash Based on Cradle-to-Cradle Approachâ€"Mini-Review. Minerals (Basel, Switzerland), 2021, 11, 985.	0.8	14
17	Medical Peat Waste Upcycling to Carbonized Solid Fuel in the Torrefaction Process. Energies, 2021, 14, 6053.	1.6	4
18	The Prediction of Calorific Value of Carbonized Solid Fuel Produced from Refuse-Derived Fuel in the Low-Temperature Pyrolysis in CO2. Materials, 2021, 14, 49.	1.3	11

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19	The Proof-of-Concept: The Transformation of Naphthalene and Its Derivatives into Decalin and Its Derivatives during Thermochemical Processing of Sewage Sludge. Energies, 2021, 14, 6479.	1.6	1
20	Carbonized Solid Fuel Production from Polylactic Acid and Paper Waste Due to Torrefaction. Materials, 2021, 14, 7051.	1.3	0
21	Kinetics of Biotic and Abiotic CO Production during the Initial Phase of Biowaste Composting. Energies, 2020, 13, 5451.	1.6	6
22	Synergy of Thermochemical Treatment of Dried Distillers Grains with Solubles with Bioethanol Production for Increased Sustainability and Profitability. Energies, 2020, 13, 4528.	1.6	5
23	Mitigation of Gaseous Emissions from Swine Manure with the Surficial Application of Biochars. Atmosphere, 2020, 11, 1179.	1.0	15
24	The Proof-of-the Concept of Biochar Floating Cover Influence on Swine Manure pH: Implications for Mitigation of Gaseous Emissions From Area Sources. Frontiers in Chemistry, 2020, 8, 656.	1.8	11
25	The Impact of Surficial Biochar Treatment on Acute H2S Emissions during Swine Manure Agitation before Pump-Out: Proof-of-the-Concept. Catalysts, 2020, 10, 940.	1.6	12
26	Proof-of-Concept of High-Pressure Torrefaction for Improvement of Pelletized Biomass Fuel Properties and Process Cost Reduction. Energies, 2020, 13, 4790.	1.6	3
27	Is Biochar from the Torrefaction of Sewage Sludge Hazardous Waste?. Materials, 2020, 13, 3544.	1.3	9
28	Mitigation of Odor, NH3, H2S, GHG, and VOC Emissions With Current Products for Use in Deep-Pit Swine Manure Storage Structures. Frontiers in Environmental Science, 2020, 8, .	1.5	8
29	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. Energies, 2020, 13, 5624.	1.6	2
30	Oxygen Transfer Capacity as a Measure of Water Aeration by Floating Reed Plants: Initial Laboratory Studies. Processes, 2020, 8, 1270.	1.3	2
31	Low-Temperature Pyrolysis of Municipal Solid Waste Components and Refuse-Derived Fuelâ€”Process Efficiency and Fuel Properties of Carbonized Solid Fuel. Data, 2020, 5, 48.	1.2	15
32	Emissions from Swine Manure Treated with Current Products for Mitigation of Odors and Reduction of NH3, H2S, VOC, and GHG Emissions. Data, 2020, 5, 54.	1.2	11
33	Waste to Energy: Solid Fuel Production from Biogas Plant Digestate and Sewage Sludge by Torrefaction-Process Kinetics, Fuel Properties, and Energy Balance. Energies, 2020, 13, 3161.	1.6	11
34	Waste-to-Carbon: Is the Torrefied Sewage Sludge with High Ash Content a Better Fuel or Fertilizer?. Materials, 2020, 13, 954.	1.3	19
35	Oxytree Pruned Biomass Torrefaction: Mathematical Models of the Influence of Temperature and Residence Time on Fuel Properties Improvement. Materials, 2019, 12, 2228.	1.3	18
36	Valorization of Sewage Sludge via Gasification and Transportation of Compressed Syngas. Processes, 2019, 7, 556.	1.3	7

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37	The-Proof-of-Concept of Biochar Floating Cover Influence on Water pH. Water (Switzerland), 2019, 11, 1802.	1.2	13
38	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. Energies, 2019, 12, 3060.	1.6	30
39	The Proof-of-the-Concept of Application of Pelletization for Mitigation of Volatile Organic Compounds Emissions from Carbonized Refuse-Derived Fuel. Materials, 2019, 12, 1692.	1.3	7
40	Fuel Properties of Torrefied Biomass from Pruning of Oxytree. Data, 2019, 4, 55.	1.2	19
41	The Effect of Biochar Addition on the Biogas Production Kinetics from the Anaerobic Digestion of Brewersâ€™ Spent Grain. Energies, 2019, 12, 1518.	1.6	61
42	Waste to Carbon Energy Demand Model and Data Based on the TGA and DSC Analysis of Individual MSW Components. Data, 2019, 4, 53.	1.2	10
43	Analysis of the Spatial and Temporal Distribution of Process Gases within Municipal Biowaste Compost. Sustainability, 2019, 11, 2340.	1.6	22
44	The Oxygen Transfer Capacity of Submerged Plant Elodea densa in Wastewater Constructed Wetlands. Water (Switzerland), 2019, 11, 575.	1.2	11
45	The Spatial and Temporal Distribution of Process Gases within the Biowaste Compost. Data, 2019, 4, 37.	1.2	14
46	Torrefaction of Sewage Sludge: Kinetics and Fuel Properties of Biochars. Energies, 2019, 12, 565.	1.6	44
47	Stomatal Conductance Measurement for Toxicity Assessment in Zero-Effluent Constructed Wetlands: Effects of Landfill Leachate on Hydrophytes. International Journal of Environmental Research and Public Health, 2019, 16, 468.	1.2	4
48	Waste to Carbon: Influence of Structural Modification on VOC Emission Kinetics from Stored Carbonized Refuse-Derived Fuel. Sustainability, 2019, 11, 935.	1.6	10
49	Waste to Carbon: Biocoal from Elephant Dung as New Cooking Fuel. Energies, 2019, 12, 4344.	1.6	27
50	Oxytree Pruned Biomass Torrefaction: Process Kinetics. Materials, 2019, 12, 3334.	1.3	24
51	The Biotic and Abiotic Carbon Monoxide Formation During Aerobic Co-digestion of Dairy Cattle Manure With Green Waste and Sawdust. Frontiers in Bioengineering and Biotechnology, 2019, 7, 283.	2.0	18
52	Thermogravimetric and Calorimetric Characteristics of Alternative Fuel in Terms of Its Use in Low-Temperature Pyrolysis. Waste and Biomass Valorization, 2019, 10, 1669-1677.	1.8	19
53	Waste to Carbon: Estimating the Energy Demand for Production of Carbonized Refuse-Derived Fuel. Sustainability, 2019, 11, 5685.	1.6	13
54	Emisja lotnych zwiÄ…zkÃ³w organicznych z karbonizowanego paliwa z odpadÃ³w. Przemysl Chemiczny, 2019, 1, 103-105.	0.0	0

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55	ReÅ¼im technologiczny kompostowania osadÃ³w Å›ciekowych z bioodpadami w pryzmach przerzucanych. Bilans metali ciÄ™Å¼kich oraz makro- i mikroskÅ‚adnikÃ³w. Przemysl Chemiczny, 2019, 1, 46-49.	0.0	0
56	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
57	Waste to Carbon: Densification of Torrefied Refuse-Derived Fuel. Energies, 2018, 11, 3233.	1.6	41
58	Quantification of VOC Emissions from Carbonized Refuse-Derived Fuel Using Solid-Phase Microextraction and Gas Chromatography-Mass Spectrometry. Molecules, 2018, 23, 3208.	1.7	11
59	KINETIC PARAMETERS OF TORREFACTION PROCESS OF ALTERNATIVE FUEL PRODUCED FROM MUNICIPAL SOLID WASTE AND CHARACTERISTIC OF CARBONIZED REFUSE DERIVED FUEL. Detritus, 2018, In Press, 1.	0.4	10
60	The RDF/SRF torrefaction: An effect of temperature on characterization of the product â€“ Carbonized Refuse Derived Fuel. Waste Management, 2017, 70, 91-100.	3.7	57
61	Wykorzystanie pomiaru aktywnoÅ›ci oddechowej do wyznaczania zawartoÅ›ci Å‚atwo biodegradowalnej materii organicznej w odpadach. Przemysl Chemiczny, 2017, 1, 112-115.	0.0	1
62	The influence of leachate recirculation on biogas production in a landfill bioreactor. Environmental Protection Engineering, 2017, 43, .	0.1	1
63	Effect of Temperature and Heating Rate on the Char Yield in Sorghum and Straw Slow Pyrolysis. Revista De Chimie (discontinued), 2017, 68, 576-580.	0.2	4
64	Mathematical modeling of torrefaction of refuse-derived alternative fuel Modelowanie matematyczne toryfikacji paliwa pochodzÄ…cego z odpadÃ³w. Przemysl Chemiczny, 2017, 1, 227-231.	0.0	1
65	Ammonia Nitrogen Transformations in a Reactor with Aggregate made of Sewage Sludge Combustion Fly Ash. Water Environment Research, 2016, 88, 715-723.	1.3	3
66	Is the biochar produced from sewage sludge a good quality solid fuel?. Archives of Environmental Protection, 2016, 42, 125-134.	1.1	26
67	Ocena efektywnoÅ›ci biosuszenia i biostabilizacji odpadÃ³w komunalnych w reaktorach z membranami pÃ³Å‚przepuszczalnymi. Gaz, Woda; Technika Sanitarna, 2016, 1, 24-26.	0.0	0
68	Transpiration as landfill leachate phytotoxicity indicator. Waste Management, 2015, 39, 189-196.	3.7	9
69	The pyrolysis and gasification of digestate from agricultural biogas plant / Piroliza i gazyfikacja pofermentu z biogazowni rolniczych. Archives of Environmental Protection, 2015, 41, 70-75.	1.1	41
70	Recycling potential of air pollution control residue from sewage sludge thermal treatment as artificial lightweight aggregates. Waste Management and Research, 2014, 32, 221-227.	2.2	13
71	The influence of evapotranspiration on vertical flow subsurface constructed wetland performance. Ecological Engineering, 2014, 67, 89-94.	1.6	71
72	Nitrogen Removal in Vertical-Flow Filters Filled with Lightweight Aggregate Made of Fly Ashes and Gravel. Journal of Environmental Engineering, ASCE, 2013, 139, 1266-1272.	0.7	4

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73	The influence of plants on nitrogen removal from landfill leachate in discontinuous batch shallow constructed wetland with recirculating subsurface horizontal flow. Ecological Engineering, 2012, 40, 44-52.	1.6	56
74	Nitrogen removal from landfill leachate in constructed wetlands with reed and willow: Redox potential in the root zone. Journal of Environmental Management, 2012, 97, 22-27.	3.8	50
75	Oxygen transfer capacity of willow (Salix viminalis L.). Biomass and Bioenergy, 2011, 35, 2306-2309.	2.9	15
76	Nitrogen removal from wastewater in vertical flow constructed wetlands containing LWA/gravel layers and reed vegetation. Ecological Engineering, 2011, 37, 897-902.	1.6	60
77	The biogas production during co-fermentation of sewage sludge and oil waste. Journal of Biotechnology, 2010, 150, 252-252.	1.9	0
78	Phytotoxicity of landfill leachate on willow â€“ Salix amygdalina L.. Waste Management, 2010, 30, 1587-1593.	3.7	18
79	Diurnal cycling of dissolved gas concentrations in a willow vegetation filter treating landfill leachate. Ecological Engineering, 2010, 36, 1680-1685.	1.6	17
80	Spatial variation of dissolved gas concentrations in a willow vegetation filter treating landfill leachate. Ecological Engineering, 2010, 36, 1774-1778.	1.6	14
81	Using fractal geometry to determine phytotoxicity of landfill leachate on willow. Chemosphere, 2010, 79, 534-540.	4.2	10
82	The landfill leachate evapotranspiration in soil plant system with reed Phragmites australis. International Journal of Environment and Waste Management, 2008, 2, 526.	0.2	2
83	The controlling of landfill leachate evapotranspiration from soilâ€“plant systems with willow: Salix amygdalina L. Waste Management and Research, 2007, 25, 61-67.	2.2	8
84	The efficiency of landfill leachate evapotranspiration in soil-plant system with reed Phragmites australis. Ecohydrology and Hydrobiology, 2007, 7, 331-337.	1.0	6
85	The efficiency of evapotranspiration of landfill leachate in the soilâ€“plant system with willow Salix amygdalina L.. Ecological Engineering, 2007, 30, 356-361.	1.6	50
86	Effectiveness of leachate disposal by the young willow sprouts Salix amygdalina. Waste Management and Research, 2003, 21, 557-566.	2.2	15
87	Organic Waste Torrefaction â€“ A Review: Reactor Systems, and the Biochar Properties. , 0, , .		3
88	Willows and Reeds for Biomediation of Landfill Leachate: Redox Potential in the Root Zone. Linnaeus Eco-Tech, 0, , 877-886.	0.0	1