Witold Kwapinski

List of Publications by Year
in descending order

95	4,210	126907	123424
papers	citations	33 h-index	61 g-index

96	96	96	5368
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kinetic and adsorptive characterization of biochar in metal ions removal. Chemical Engineering Journal, 2012, 197, 295-305.	12.7	535
2	Biochar from Biomass and Waste. Waste and Biomass Valorization, 2010, 1, 177-189.	3.4	248
3	Hydrothermal carbonisation of poultry litter: Effects of treatment temperature and residence time on yields and chemical properties of hydrochars. Bioresource Technology, 2016, 216, 373-380.	9.6	140
4	Hydro-Pyrolysis of Biomass and Online Catalytic Vapor Upgrading with Ni-ZSM-5 and Ni-MCM-41. Energy & Fuels, 2012, 26, 6080-6090.	5.1	128
5	Adsorption and desorption of phosphate on biochars. Journal of Environmental Chemical Engineering, 2016, 4, 37-46.	6.7	118
6	Characterization of compost produced from separated pig manure and a variety of bulking agents at low initial C/N ratios. Bioresource Technology, 2011, 102, 7131-7138.	9.6	109
7	Synthesis and Characterization of Sulfated TiO₂ Nanorods and ZrO₂/TiO₂ Nanocomposites for the Esterification of Biobased Organic Acid. ACS Applied Materials & Interfaces, 2012, 4, 4499-4505.	8.0	107
8	The role of sulfur- and phosphorus-mobilizing bacteria in biochar-induced growth promotion of<i>Lolium perenne</i>. FEMS Microbiology Ecology, 2014, 90, 78-91.	2.7	107
9	Artificial neural network based modelling approach for municipal solid waste gasification in a fluidized bed reactor. Waste Management, 2016, 58, 202-213.	7.4	107
10	Utilisation of poultry litter as an energy feedstock. Biomass and Bioenergy, 2013, 49, 197-204.	5.7	103
11	Thermodynamic analysis of methane dry reforming: Effect of the catalyst particle size on carbon formation. Energy Conversion and Management, 2017, 150, 614-622.	9.2	98
12	Impact of torrefaction on properties of MiscanthusÃ—giganteus relevant to gasification. Fuel, 2014, 121, 189-197.	6.4	96
13	Assessment of the structural evolution of carbons from microwave plasma natural gas reforming and biomass pyrolysis using Raman spectroscopy. Carbon, 2014, 80, 617-628.	10.3	95
14	Pressurised pyrolysis of Miscanthus using a fixed bed reactor. Bioresource Technology, 2011, 102, 3466-3470.	9.6	83
15	Selective extraction of humic acids from an anthropogenic Amazonian dark earth and from a chemically oxidized charcoal. Biology and Fertility of Soils, 2014, 50, 1223-1232.	4.3	75
16	Hydrothermal carbonisation of poultry litter: Effects of initial pH on yields and chemical properties of hydrochars. Bioresource Technology, 2017, 238, 78-85.	9.6	71
17	Application of sulfonated carbon-based catalyst for the furfural production from d -xylose and xylan in a microwave-assisted biphasic reaction. Molecular Catalysis, 2017, 438, 167-172.	2.0	67
18	Application of TiO2-Based Photocatalysts to Antibiotics Degradation: Cases of Sulfamethoxazole, Trimethoprim and Ciprofloxacin. Catalysts, 2021, 11, 728.	3.5	65

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19	Optimization of Ni/ZrO2 catalytic performance in thermochemical cellulose conversion for enhanced hydrogen production. Applied Catalysis B: Environmental, 2014, 145, 85-90.	20.2	56
20	Multi-gene genetic programming based predictive models for municipal solid waste gasification in a fluidized bed gasifier. Bioresource Technology, 2015, 179, 524-533.	9.6	56
21	Speciation of Nutrients in Hydrochar Produced from Hydrothermal Carbonization of Poultry Litter under Different Treatment Conditions. ACS Sustainable Chemistry and Engineering, 2018, 6, 11265-11272.	6.7	56
22	Effect of sawdust addition on composting of separated raw and anaerobically digested pig manure. Journal of Environmental Management, 2012, 111, 70-77.	7.8	55
23	Hydrothermal carbonization of spent mushroom compost waste compared against torrefaction and pyrolysis. Fuel Processing Technology, 2021, 216, 106795.	7.2	55
24	Updraft gasification of poultry litter at farm-scale â€“ A case study. Waste Management, 2016, 50, 324-333.	7.4	54
25	A study of hydrogen pressure during hydropyrolysis of Miscanthus x giganteus and online catalytic vapour upgrading with Ni on ZSM-5. Journal of Analytical and Applied Pyrolysis, 2013, 103, 369-377.	5.5	53
26	Gasification of torrefied MiscanthusÃ—giganteus in an air-blown bubbling fluidized bed gasifier. Bioresource Technology, 2014, 159, 397-403.	9.6	53
27	Effect of sawdust addition and composting of feedstock on renewable energy and biochar production from pyrolysis of anaerobically digested pig manure. Biomass and Bioenergy, 2013, 49, 1-9.	5.7	52
28	Catalytically Upgrading Bio-oil via Esterification. Energy & Fuels, 2015, 29, 3691-3698.	5.1	50
29	Characterisation of the products from pyrolysis of residues after acid hydrolysis of Miscanthus. Bioresource Technology, 2012, 108, 258-263.	9.6	45
30	Poultry Litter Gasification in a Fluidized Bed Reactor: Effects of Gasifying Agent and Limestone Addition. Energy & Fuels, 2016, 30, 3085-3096.	5.1	43
31	Batch and Continuous Systems for Zn, Cu, and Pb Metal Ions Adsorption on Spent Mushroom Compost Biochar. Industrial & Engineering Chemistry Research, 2019, 58, 7296-7307.	3.7	43
32	Modeling of the Wall Effect in Packed Bed Adsorption. Chemical Engineering and Technology, 2004, 27, 1179-1186.	1.5	39
33	The influence of the pig manure separation system on the energy production potentials. Bioresource Technology, 2013, 136, 502-508.	9.6	38
34	ANN-Kriging hybrid model for predicting carbon and inorganic phosphorus recovery in hydrothermal carbonization. Waste Management, 2019, 85, 242-252.	7.4	35
35	Sewage Sludge Thermal Treatment Technologies with a Focus on Phosphorus Recovery: A Review. Waste and Biomass Valorization, 2021, 12, 5837-5852.	3.4	35
36	Influence of Ni catalyst support on the product distribution of cellulose fast pyrolysis vapors upgrading. Journal of Analytical and Applied Pyrolysis, 2015, 113, 557-563.	5.5	34

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37	Ash Agglomeration and Deposition during Combustion of Poultry Litter in a Bubbling Fluidized-Bed Combustor. Energy & Fuels, 2013, 27, 4684-4694.	5.1	33
38	Hydrothermal carbonization of olive mill wastewater: Liquid phase product analysis. Journal of Environmental Chemical Engineering, 2019, 7, 102833.	6.7	33
39	Conversion of Palmitic Acid Over Bi-functional Ni/ZSM-5 Catalyst: Effect of Stoichiometric Ni/Al Molar Ratio. Topics in Catalysis, 2018, 61, 1757-1768.	2.8	32
40	Gasification of Miscanthus x giganteus in an Air-Blown Bubbling Fluidized Bed: A Preliminary Study of Performance and Agglomeration. Energy & Fuels, 2014, 28, 1121-1131.	5.1	31
41	Influence of ZrO2 on catalytic performance of Ru catalyst in hydrolytic hydrogenation of cellulose towards Î³-valerolactone. International Journal of Hydrogen Energy, 2016, 41, 8688-8695.	7.1	31
42	Effect of water-sludge ratio and reaction time on the hydrothermal carbonization of olive oil mill wastewater treatment: Hydrochar characterization. Journal of Water Process Engineering, 2019, 31, 100813.	5.6	31
43	The effect of temperature, residence time, and water-sludge ratio on hydrothermal carbonization of DAF dairy sludge. Journal of Environmental Chemical Engineering, 2020, 8, 103599.	6.7	31
44	Carbon-Based Catalysts for Biodiesel Productionâ€"A Review. Applied Sciences (Switzerland), 2020, 10, 918.	2.5	29
45	Influence of pig manure biochar mineral content on Cr(<scp>III</scp>) sorption capacity. Journal of Chemical Technology and Biotechnology, 2014, 89, 569-578.	3.2	28
46	Miscanthus biochar promotes growth of spring barley and shifts bacterial community structures including phosphorus and sulfur mobilizing bacteria. Pedobiologia, 2016, 59, 195-202.	1.2	28
47	Pyrolysis Process as a Sustainable Management Option of Poultry Manure: Characterization of the Derived Biochars and Assessment of their Nutrient Release Capacities. Water (Switzerland), 2019, 11, 2271.	2.7	27
48	Processed vs. Non-Processed Biowastes for Agriculture: Effects of Post-Harvest Tomato Plants and Biochar on Radish Growth, Chlorophyll Content and Protein Production. International Journal of Molecular Sciences, 2015, 16, 8826-8843.	4.1	26
49	Detailed Measurement Uncertainty Analysis of Solid-Phase Adsorptionâ€"Total Gas Chromatography (GC)-Detectable Tar from Biomass Gasification. Energy & Fuels, 2016, 30, 2187-2197.	5.1	26
50	Fluidized Bed Gasification of Torrefied and Raw Grassy Biomass (Miscanthus Ã— Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (2015, 29, 7290-7300.	5.1	24
51	Tars from Fluidized Bed Gasification of Raw and Torrefied Miscanthus x giganteus. Energy & Fuels, 2016, 30, 5693-5704.	5.1	24
52	Activity and characterization of Ni catalyst supported on CeO2â€"ZrO2 for thermo-chemical conversion of cellulose. International Journal of Hydrogen Energy, 2016, 41, 8679-8687.	7.1	24
53	Removal of hexavalent chromium (Cr(<scp>VI</scp>)) from aqueous solution using acidâ€modified poultry litterâ€derived hydrochar: adsorption, regeneration and reuse. Journal of Chemical Technology and Biotechnology, 2022, 97, 55-66.	3.2	24
54	Different Analytical Procedures for the Study of Organic Residues in Archeological Ceramic Samples with the Use of Gas Chromatography-mass Spectrometry. Critical Reviews in Analytical Chemistry, 2016, 46, 67-81.	3.5	22

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55	Eclectic trimetallic Niâ€“Coâ€“Ru catalyst for the dry reforming of methane. International Journal of Hydrogen Energy, 2020, 45, 17153-17163.	7.1	22
56	Trimetallic Ni-Co-Ru catalyst for the dry reforming of methane: Effect of the Ni/Co ratio and the calcination temperature. Fuel, 2021, 300, 120950.	6.4	22
57	Combined wall and thermal effects during non-isothermal packed bed adsorption. Chemical Engineering Journal, 2009, 152, 271-276.	12.7	21
58	Thermal and flow effects during adsorption in conventional, diluted and annular packed beds. Chemical Engineering Science, 2010, 65, 4250-4260.	3.8	21
59	Characterization of phosphate structures in biochar from swine bones. Pesquisa Agropecuaria Brasileira, 2012, 47, 672-676.	0.9	21
60	Structurally controlled synthesis of calcium sulphate dihydrate from industrial wastes of spent sulphuric acid and limestone. Environmental Technology and Innovation, 2020, 17, 100582.	6.1	21
61	Pig slurry acidification, separation technology and thermal conversion affect phosphorus availability in soil amended with the derived solid fractions, chars or ashes. Plant and Soil, 2016, 401, 93-107.	3.7	20
62	Tar yield and composition from poultry litter gasification in a fluidised bed reactor: effects of equivalence ratio, temperature and limestone addition. RSC Advances, 2019, 9, 13283-13296.	3.6	20
63	TiO2â€“SnO2 Nanocomposites: Effect of Acidâ€“Base and Structural-Adsorption Properties on Photocatalytic Performance. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 3060-3072.	3.7	20
64	Dynamic optimization of dry reformer under catalyst sintering using neural networks. Energy Conversion and Management, 2018, 157, 146-156.	9.2	19
65	Determination of Kinetics and Equilibria for Adsorption of Water Vapor on Single Zeolite Particles by a Magnetic Suspension Balance. Chemical Engineering and Technology, 2004, 27, 681-686.	1.5	18
66	Modified activated carbon for deironing of underground water. Environmental Research, 2020, 182, 108996.	7.5	18
67	Deep neural networks in chemical engineering classrooms to accurately model adsorption equilibrium data. Education for Chemical Engineers, 2021, 36, 115-127.	4.8	18
68	ZrO2-modified TiO2 nanorod composite: Hydrothermal synthesis, characterization and application in esterification of organic acid. Materials Chemistry and Physics, 2014, 145, 82-89.	4.0	17
69	Catalytic performance of a Ni catalyst supported on CeO2, ZrO2 and CeO2â€“ZrO2 in the upgrading of cellulose fast pyrolysis vapors. Comptes Rendus Chimie, 2015, 18, 1223-1228.	0.5	17
70	Modification of Ni/ZrO2 catalyst by selected rare earth metals as a promising way for increase in the efficiency of thermocatalytic conversion of lignocellulosic biomass to hydrogen-rich gas. Fuel, 2020, 276, 118110.	6.4	17
71	Development of heterogeneous acid catalysts produced from the carbonization of Miscanthus x giganteus for the esterification of butyric acid to butyl butyrate with nâ€butanol. Journal of Chemical Technology and Biotechnology, 2016, 91, 2076-2084.	3.2	15
72	Molybdenum and nickel-molybdenum nitride catalysts supported on MgO-Al2O3 for the dry reforming of methane. Journal of CO2 Utilization, 2021, 44, 101411.	6.8	15

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73	Behavior of Heavy Metals during Fluidized Bed Combustion of Poultry Litter. Energy & Fuels, 2014, 28, 5158-5166.	5.1	14
74	ToF-SIMS as a versatile tool to study the surface properties of silica supported cobalt catalyst for Fischerâ€“Tropsch synthesis. Fuel, 2014, 122, 301-309.	6.4	14
75	Characterization of Particulate Materials in Respect to Drying. Drying Technology, 2006, 24, 1083-1092.	3.1	13
76	Impact of the modification method of Ni/ZrO2 catalyst by alkali and alkaline earth metals on its activity in thermo-chemical conversion of cellulose. International Journal of Hydrogen Energy, 2018, 43, 22303-22314.	7.1	13
77	Reproducing the organic matter model of anthropogenic dark earth of Amazonia and testing the ecotoxicity of functionalized charcoal compounds. Pesquisa Agropecuaria Brasileira, 2012, 47, 693-698.	0.9	12
78	Valorization of salt post-modified poultry manure biochars for phosphorus recovery from aqueous solutions: investigations on adsorption properties and involved mechanism. Biomass Conversion and Biorefinery, 2022, 12, 4333-4348.	4.6	12
79	Fly Ash From Poultry Litter Gasification â€“ Can it be Utilised in Agriculture Systems as a Fertiliser?. Energy Procedia, 2019, 161, 38-46.	1.8	9
80	Biochars and their magnetic derivatives as enzyme-like catalysts mimicking peroxidases. Biochar, 2020, 2, 121-134.	12.6	9
81	Modelling of yields in torrefaction of olive stones using artificial intelligence coupled with kriging interpolation. Journal of Cleaner Production, 2021, 326, 129020.	9.3	9
82	Experimental and Theoretical Investigation of Concentration and Temperature Profiles in a Narrow Packed Bed Adsorber. Chemical Engineering and Technology, 2006, 29, 910-915.	1.5	8
83	Static and Dynamic Investigations on Leaching/Retention of Nutrients from Raw Poultry Manure Biochars and Amended Agricultural Soil. Sustainability, 2021, 13, 1212.	3.2	8
84	Heterogeneous Char Based Solid Acid Catalysts from Brown Bin Waste to Create a Green Process for the Production of Butyl Butyrate. Waste and Biomass Valorization, 2017, 8, 2431-2441.	3.4	7
85	Char production technology. , 2019, , 39-68.		6
86	Hydro-Pyrolysis and Catalytic Upgrading of Biomass and Its Hydroxy Residue Fast Pyrolysis Vapors. Energies, 2019, 12, 3474.	3.1	5
87	Sustainable biofuels and biochar production from olive mill wastes via co-pyrolysis process. Biomass Conversion and Biorefinery, 0, , 1.	4.6	5
88	Effect of SnO2 structure morphology on their electrical properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 21934-21947.	2.2	4
89	Photocatalytic activity to ciprofloxacin and physico-chemical properties of TiO₂ synthesized by different methods. Molecular Crystals and Liquid Crystals, 2023, 751, 28-40.	0.9	4
90	Hydrothermal carbonization (HTC) of dairy waste: effect of temperature and initial acidity on the composition and quality of solid and liquid products. Open Research Europe, 0, 2, 83.	2.0	4

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91	Mixed and single gas permeation performance analysis of amino-modified ZIF based mixed matrix membrane. Polymers and Polymer Composites, 2021, 29, S707-S718.	1.9	2
92	Developments in liquid membrane technology and membrane distillation. Membrane Technology, 2001, 2001, 5-9.	0.1	1
93	Determination of the Higher Heating Value of Pig Manure. Waste and Biomass Valorization, 2015, 6, 327-333.	3.4	1
94	Hydrodynamics and Mass Transfer in Liquid Membranes with Crossing Streams. Industrial & Engineering Chemistry Research, 2001, 40, 1234-1238.	3.7	0
95	Hydrothermal carbonization (HTC) of dairy waste: effect of temperature and initial acidity on the composition and quality of solid and liquid products. Open Research Europe, 0, 2, 83.	2.0	0