

Musa Buyukada

List of Publications by Year in descending order

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67
papers

3,220
citations

109264

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67
docs citations

67
times ranked

1584
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrolytic kinetics, reaction mechanisms and products of waste tea via TG-FTIR and Py-GC/MS. <i>Energy Conversion and Management</i> , 2019, 184, 436-447.	4.4	173
2	Combustion behaviors of spent mushroom substrate using TG-MS and TG-FTIR: Thermal conversion, kinetic, thermodynamic and emission analyses. <i>Bioresource Technology</i> , 2018, 266, 389-397.	4.8	161
3	Pyrolysis of water hyacinth biomass parts: Bioenergy, gas emissions, and by-products using TG-FTIR and Py-GC/MS analyses. <i>Energy Conversion and Management</i> , 2020, 207, 112552.	4.4	150
4	Co-combustion thermal conversion characteristics of textile dyeing sludge and pomelo peel using TGA and artificial neural networks. <i>Applied Energy</i> , 2018, 212, 786-795.	5.1	132
5	TG-FTIR and Py-GC/MS analyses of pyrolysis behaviors and products of cattle manure in CO ₂ and N ₂ atmospheres: Kinetic, thermodynamic, and machine-learning models. <i>Energy Conversion and Management</i> , 2019, 195, 346-359.	4.4	124
6	Co-pyrolytic mechanisms, kinetics, emissions and products of biomass and sewage sludge in N ₂ , CO ₂ and mixed atmospheres. <i>Chemical Engineering Journal</i> , 2020, 397, 125372.	6.6	103
7	Influence of catalysts on co-combustion of sewage sludge and water hyacinth blends as determined by TG-MS analysis. <i>Bioresource Technology</i> , 2018, 247, 217-225.	4.8	92
8	Pyrolysis dynamics of two medical plastic wastes: Drivers, behaviors, evolved gases, reaction mechanisms, and pathways. <i>Journal of Hazardous Materials</i> , 2021, 402, 123472.	6.5	92
9	Co-combustion of textile dyeing sludge with cattle manure: Assessment of thermal behavior, gaseous products, and ash characteristics. <i>Journal of Cleaner Production</i> , 2020, 253, 119950.	4.6	91
10	Dynamic pyrolysis behaviors, products, and mechanisms of waste rubber and polyurethane bicycle tires. <i>Journal of Hazardous Materials</i> , 2021, 402, 123516.	6.5	90
11	Combustion behaviors of three bamboo residues: Gas emission, kinetic, reaction mechanism and optimization patterns. <i>Journal of Cleaner Production</i> , 2019, 235, 549-561.	4.6	85
12	Co-combustion of sewage sludge and coffee grounds under increased O ₂ /CO ₂ atmospheres: Thermodynamic characteristics, kinetics and artificial neural network modeling. <i>Bioresource Technology</i> , 2018, 250, 230-238.	4.8	80
13	Thermal degradations and processes of waste tea and tea leaves via TG-FTIR: Combustion performances, kinetics, thermodynamics, products and optimization. <i>Bioresource Technology</i> , 2018, 268, 715-725.	4.8	75
14	Comparative (co-)pyrolytic performances and by-products of textile dyeing sludge and cattle manure: Deeper insights from Py-GC/MS, TG-FTIR, 2D-COS and PCA analyses. <i>Journal of Hazardous Materials</i> , 2021, 401, 123276.	6.5	70
15	Comparative thermogravimetric analyses of co-combustion of textile dyeing sludge and sugarcane bagasse in carbon dioxide/oxygen and nitrogen/oxygen atmospheres: Thermal conversion characteristics, kinetics, and thermodynamics. <i>Bioresource Technology</i> , 2018, 255, 88-95.	4.8	69
16	Combustions of torrefaction-pretreated bamboo forest residues: Physicochemical properties, evolved gases, and kinetic mechanisms. <i>Bioresource Technology</i> , 2020, 304, 122960.	4.8	69
17	Combustion behaviors of pileus and stipe parts of <i>Lentinus edodes</i> using thermogravimetric-mass spectrometry and Fourier transform infrared spectroscopy analyses: Thermal conversion, kinetic, thermodynamic, gas emission and optimization analyses. <i>Bioresource Technology</i> , 2019, 288, 121481.	4.8	67
18	Interaction effects of chlorine and phosphorus on thermochemical behaviors of heavy metals during incineration of sulfur-rich textile dyeing sludge. <i>Chemical Engineering Journal</i> , 2018, 351, 897-911.	6.6	65

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19	Thermal characteristics, kinetics, gas emissions and thermodynamic simulations of (co-)combustions of textile dyeing sludge and waste tea. <i>Journal of Cleaner Production</i> , 2019, 239, 118113.	4.6	65
20	Synergistic effects, gaseous products, and evolutions of NO _x precursors during (co-)pyrolysis of textile dyeing sludge and bamboo residues. <i>Journal of Hazardous Materials</i> , 2021, 401, 123331.	6.5	65
21	Co-combustion of peanut hull and coal blends: Artificial neural networks modeling, particle swarm optimization and Monte Carlo simulation. <i>Bioresource Technology</i> , 2016, 216, 280-286.	4.8	64
22	(Co-)combustion behaviors and products of spent potlining and textile dyeing sludge. <i>Journal of Cleaner Production</i> , 2019, 224, 384-395.	4.6	61
23	Kinetics, thermodynamics, gas evolution and empirical optimization of cattle manure combustion in air and oxy-fuel atmospheres. <i>Applied Thermal Engineering</i> , 2019, 149, 119-131.	3.0	60
24	Catalytic effects of CaO, Al ₂ O ₃ , Fe ₂ O ₃ , and red mud on <i>Pteris vittata</i> combustion: Emission, kinetic and ash conversion patterns. <i>Journal of Cleaner Production</i> , 2020, 252, 119646.	4.6	60
25	Thermogravimetric analysis of (co-)combustion of oily sludge and litchi peels: combustion characterization, interactions and kinetics. <i>Thermochimica Acta</i> , 2018, 667, 207-218.	1.2	59
26	Thermal conversion behaviors and products of spent mushroom substrate in CO ₂ and N ₂ atmospheres: Kinetic, thermodynamic, TG and Py-GC/MS analyses. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 139, 177-186.	2.6	55
27	Assessing thermal behaviors and kinetics of (co-)combustion of textile dyeing sludge and sugarcane bagasse. <i>Applied Thermal Engineering</i> , 2018, 131, 874-883.	3.0	50
28	Kinetics, thermodynamics, gas evolution and empirical optimization of (co-)combustion performances of spent mushroom substrate and textile dyeing sludge. <i>Bioresource Technology</i> , 2019, 280, 313-324.	4.8	50
29	Bioenergy and emission characterizations of catalytic combustion and pyrolysis of litchi peels via TG-FTIR-MS and Py-GC/MS. <i>Renewable Energy</i> , 2020, 148, 1074-1093.	4.3	50
30	Combustion behaviors of <i>Pteris vittata</i> using thermogravimetric, kinetic, emission and optimization analyses. <i>Journal of Cleaner Production</i> , 2019, 237, 117772.	4.6	49
31	Pyrolysis performance, kinetic, thermodynamic, product and joint optimization analyses of incense sticks in N ₂ and CO ₂ atmospheres. <i>Renewable Energy</i> , 2019, 141, 814-827.	4.3	48
32	Quantifying thermal decomposition regimes of textile dyeing sludge, pomelo peel, and their blends. <i>Renewable Energy</i> , 2018, 122, 55-64.	4.3	46
33	CO ₂ -assisted co-pyrolysis of textile dyeing sludge and hyperaccumulator biomass: Dynamic and comparative analyses of evolved gases, bio-oils, biochars, and reaction mechanisms. <i>Journal of Hazardous Materials</i> , 2020, 400, 123190.	6.5	45
34	Pyrolytic behaviors, kinetics, decomposition mechanisms, product distributions and joint optimization of <i>Lentinus edodes</i> stipe. <i>Energy Conversion and Management</i> , 2020, 213, 112858.	4.4	43
35	Thermogravimetric and mass-spectrometric analyses of combustion of spent potlining under N ₂ /O ₂ and CO ₂ /O ₂ atmospheres. <i>Waste Management</i> , 2019, 87, 237-249.	3.7	37
36	(Co-)combustion of additives, water hyacinth and sewage sludge: Thermogravimetric, kinetic, gas and thermodynamic modeling analyses. <i>Waste Management</i> , 2018, 81, 211-219.	3.7	36

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37	Investigation of thermal conversion characteristics and performance evaluation of co-combustion of pine sawdust and lignite coal using TGA, artificial neural network modeling and likelihood method. <i>Bioresource Technology</i> , 2019, 287, 121461.	4.8	36
38	(Co-)pyrolytic performances and by-products of textile dyeing sludge and spent mushroom substrate. <i>Journal of Cleaner Production</i> , 2020, 261, 121195.	4.6	36
39	The mixture of sewage sludge and biomass waste as solid biofuels: Process characteristic and environmental implication. <i>Renewable Energy</i> , 2019, 139, 707-717.	4.3	31
40	Probabilistic uncertainty analysis based on Monte Carlo simulations of co-combustion of hazelnut hull and coal blends: Data-driven modeling and response surface optimization. <i>Bioresource Technology</i> , 2017, 225, 106-112.	4.8	30
41	Uncertainty estimation by Bayesian approach in thermochemical conversion of walnut hull and lignite coal blends. <i>Bioresource Technology</i> , 2017, 232, 87-92.	4.8	26
42	Response surface optimization, modeling and uncertainty analysis of mass loss response of co-combustion of sewage sludge and water hyacinth. <i>Applied Thermal Engineering</i> , 2017, 125, 328-335.	3.0	26
43	Characterizing and optimizing (co-)pyrolysis as a function of different feedstocks, atmospheres, blend ratios, and heating rates. <i>Bioresource Technology</i> , 2019, 277, 104-116.	4.8	26
44	Catalytic combustion performances, kinetics, reaction mechanisms and gas emissions of <i>Lentinus edodes</i> . <i>Bioresource Technology</i> , 2020, 300, 122630.	4.8	26
45	Uncertainty and sensitivity analyses of co-combustion/pyrolysis of textile dyeing sludge and incense sticks: Regression and machine-learning models. <i>Renewable Energy</i> , 2020, 151, 463-474.	4.3	25
46	Catalytic combustions of two bamboo residues with sludge ash, CaO, and Fe ₂ O ₃ : Bioenergy, emission and ash deposition improvements. <i>Journal of Cleaner Production</i> , 2020, 270, 122418.	4.6	25
47	Utilization of apricot seed in (co-)combustion of lignite coal blends: Numeric optimization, empirical modeling and uncertainty estimation. <i>Fuel</i> , 2018, 216, 190-198.	3.4	24
48	Combustion parameters, evolved gases, reaction mechanisms, and ash mineral behaviors of durian shells: A comprehensive characterization and joint-optimization. <i>Bioresource Technology</i> , 2020, 314, 123689.	4.8	22
49	Thermal behaviors of fluorine during (co-)incinerations of spent potlining and red mud: Transformation, retention, leaching and thermodynamic modeling analyses. <i>Chemosphere</i> , 2020, 249, 126204.	4.2	22
50	Reaction mechanisms and product patterns of <i>Pteris vittata</i> pyrolysis for cleaner energy. <i>Renewable Energy</i> , 2021, 167, 600-612.	4.3	16
51	Modeling of decolorization of synthetic reactive dyestuff solutions with response surface methodology by a rapid and efficient process of ultrasound-assisted ozone oxidation. <i>Desalination and Water Treatment</i> , 2016, 57, 14973-14985.	1.0	14
52	Thermal behaviors, combustion mechanisms, evolved gasses, and ash analysis of spent potlining for a hazardous waste management. <i>Journal of Environmental Sciences</i> , 2021, 107, 124-137.	3.2	14
53	Prediction of Photocatalytic Degradation and Mineralization Efficiencies of Basic Blue 3 Using TiO_2 by Nonlinear Modeling Based on Box-Behnken Design. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 2631-2646.	1.1	13
54	Removal, potential reaction pathways, and overall cost analysis of various pollution parameters and toxic odor compounds from the effluents of turkey processing plant using TiO ₂ -assisted UV/O ₃ process. <i>Journal of Environmental Management</i> , 2019, 248, 109298.	3.8	11

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55	Removal of Yellow F3R, Di Maria Brilliant Blue R and Reactive Brilliant Red M-3BE from Aqueous Solutions by a Rapid and Efficient Ultrasound-Assisted Process with a Novel Biosorbent of Cottonseed Cake: Statistical Modeling, Kinetic and Thermodynamic Studies. <i>Arabian Journal for Science and Engineering</i> , 2015, 40, 2153-2168.	1.1	10
56	Thermodynamic behaviors of Cu in interaction with chlorine, sulfur, phosphorus and minerals during sewage sludge co-incineration. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 1160-1170.	1.7	9
57	Parametric assessment of stochastic variability in co-combustion of textile dyeing sludge and shaddock peel. <i>Waste Management</i> , 2019, 96, 128-135.	3.7	9
58	Arsenic Partitioning Behavior During Sludge Co-combustion: Thermodynamic Equilibrium Simulation. <i>Waste and Biomass Valorization</i> , 2019, 10, 2297-2307.	1.8	9
59	Data-driven nonlinear modeling studies on removal of Acid Yellow 59 using Si-doped multi-walled carbon nanotubes. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 2215-2228.	1.8	8
60	Thermochemical behavior of textile dyeing sludge, paper mill sludge, and their blends during (co-)combustion. <i>Thermochimica Acta</i> , 2017, 655, 101-105.	1.2	7
61	Thermodynamic equilibrium predictions of zinc volatilization, migration, and transformation during sludge co-incineration. <i>Water Environment Research</i> , 2019, 91, 208-221.	1.3	5
62	Thermodynamic Equilibrium Simulations of Thallium Distributions in Interactions with Chlorine, Sulfur, Phosphorus, and Minerals During Sludge Co-combustion. <i>Waste and Biomass Valorization</i> , 2020, 11, 1251-1259.	1.8	3
63	Modeling Efficiency of Dehydrated Sunflower Seed Cake as a Novel Biosorbent to Remove a Toxic Azo Dye. <i>Chemical Engineering Communications</i> , 2015, , 151007222219007.	1.5	2
64	Ultrasound-assisted adsorption of toxic dyes by cottonseed cake: artificial neural networks, regression models and response surface optimization. <i>Global Nest Journal</i> , 2018, 20, 14-24.	0.3	2
65	Modeling Ultrasound-Assisted Decolorization Efficiency of Reactive Red 195 Using Soybean Cake. <i>Asian Journal of Chemistry</i> , 2015, 27, 4541-4548.	0.1	1
66	FÄ±ndÄ±k kabuklarÄ± ile farklı model boyalarÄ±n gideriminin kinetik ve termodinamik incelemesi. <i>Journal of the Faculty of Engineering and Architecture of Gazi University</i> , 0, , .	0.3	1
67	Removal of COD and TOC from various model textile dyes by ozonation: Box-Behnken approach. <i>Pamukkale University Journal of Engineering Sciences</i> , 2019, 25, 871-877.	0.2	0