

Mikael Thyrel

List of Publications by Year in descending order

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29
papers

984
citations

516215

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docs citations

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times ranked

951
citing authors

#	ARTICLE	IF	CITATIONS
1	High quality biofuel pellet production from pre-compacted low density raw materials. <i>Bioresource Technology</i> , 2008, 99, 7176-7182.	4.8	121
2	Slagging Characteristics during Combustion of Corn Stovers with and without Kaolin and Calcite. <i>Energy & Fuels</i> , 2008, 22, 3465-3470.	2.5	115
3	Moisture content and storage time influence the binding mechanisms in biofuel wood pellets. <i>Applied Energy</i> , 2012, 99, 109-115.	5.1	100
4	Effect of biomaterial characteristics on pelletizing properties and biofuel pellet quality. <i>Fuel Processing Technology</i> , 2009, 90, 1129-1134.	3.7	90
5	Sustainable Biomass Activated Carbons as Electrodes for Battery and Supercapacitors – A Mini-Review. <i>Nanomaterials</i> , 2020, 10, 1398.	1.9	76
6	Process Parameters Optimization, Characterization, and Application of KOH-Activated Norway Spruce Bark Graphitic Biochars for Efficient Azo Dye Adsorption. <i>Molecules</i> , 2022, 27, 456.	1.7	59
7	A comparative study of chemical treatment by MgCl ₂ , ZnSO ₄ , ZnCl ₂ , and KOH on physicochemical properties and acetaminophen adsorption performance of biobased porous materials from tree bark residues. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 642, 128626.	2.3	59
8	A Short Review on the Electrochemical Performance of Hierarchical and Nitrogen-Doped Activated Biocarbon-Based Electrodes for Supercapacitors. <i>Nanomaterials</i> , 2021, 11, 424.	1.9	47
9	Industrial scale biofuel pellet production from blends of unbarked softwood and hardwood stems – the effects of raw material composition and moisture content on pellet quality. <i>Fuel Processing Technology</i> , 2012, 95, 73-77.	3.7	31
10	Biomass pellet combustion: Cavities and ash formation characterized by synchrotron X-ray micro-tomography. <i>Fuel Processing Technology</i> , 2018, 176, 211-220.	3.7	31
11	Flexible supercapacitors of biomass-based activated carbon-polypyrrole on eggshell membranes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106155.	3.3	27
12	Near Infrared Image Analysis for Online Identification and Separation of Wood Chips with Elevated Levels of Extractives. <i>Journal of Near Infrared Spectroscopy</i> , 2012, 20, 591-599.	0.8	24
13	Combustion characteristics of straw stored with CaCO ₃ in bubbling fluidized bed using quartz and olivine as bed materials. <i>Applied Energy</i> , 2018, 212, 1400-1408.	5.1	23
14	Application of design of experiments (DoE) for optimised production of micro- and mesoporous Norway spruce bark activated carbons. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 10113-10131.	2.9	20
15	Time-Resolved Study of Silicate Slag Formation During Combustion of Wheat Straw Pellets. <i>Energy & Fuels</i> , 2019, 33, 2308-2318.	2.5	19
16	Combustion and Slagging Behavior of Biomass Pellets Using a Burner Cup Developed for Ash-Rich Fuels. <i>Energy & Fuels</i> , 2014, 28, 1103-1110.	2.5	18
17	Temperature controlled feed layer formation in biofuel pellet production. <i>Fuel</i> , 2012, 94, 81-85.	3.4	15
18	VOC off-gassing from pelletized steam exploded softwood bark: Emissions at different industrial process steps. <i>Fuel Processing Technology</i> , 2018, 171, 70-77.	3.7	15

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19	Energy smart hot-air pasteurisation as effective as energy intense autoclaving for fungal preprocessing of lignocellulose feedstock for bioethanol fuel production. <i>Renewable Energy</i> , 2020, 155, 237-247.	4.3	14
20	Facile Synthesis of Sustainable Biomass-Derived Porous Biochars as Promising Electrode Materials for High-Performance Supercapacitor Applications. <i>Nanomaterials</i> , 2022, 12, 866.	1.9	14
21	Nanomapping and speciation of C and Ca in thermally treated lignocellulosic cell walls using scanning transmission X-ray microscopy and K-edge XANES. <i>Fuel</i> , 2016, 167, 149-157.	3.4	12
22	Characterization of fast pyrolysis bio-oil properties by near-infrared spectroscopic data. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 133, 9-15.	2.6	12
23	Fate of phosphorus and potassium in single-pellet thermal conversion of forest residues with a focus on the char composition. <i>Biomass and Bioenergy</i> , 2021, 150, 106124.	2.9	10
24	Phase transitions involving Ca “The most abundant ash forming element” In thermal treatment of lignocellulosic biomass. <i>Fuel</i> , 2021, 285, 119054.	3.4	8
25	A method for differentiating between exogenous and naturally embedded ash in bio-based feedstock by combining ED-XRF and NIR spectroscopy. <i>Biomass and Bioenergy</i> , 2019, 122, 84-89.	2.9	8
26	Morphological characterisation of ash particles from co-combustion of sewage sludge and wheat straw with X-ray microtomography. <i>Waste Management</i> , 2021, 135, 30-39.	3.7	7
27	Using the macromolecular composition to predict process settings that give high pellet durability in ring-die biomass pellet production. <i>Fuel</i> , 2021, 283, 119267.	3.4	4
28	Reducing Volatile Organic Compound Off-Gassing during the Production of Pelletized Steam-Exploded Bark: Impact of Storage Time and Controlled Ventilation. <i>Energy & Fuels</i> , 2018, 32, 5181-5186.	2.5	3
29	Does Mechanical Screening of Contaminated Forest Fuels Improve Ash Chemistry for Thermal Conversion?. <i>Energy & Fuels</i> , 2020, 34, 16294-16301.	2.5	2