Nakorn Tippayawong

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Biogas quality upgrade by simultaneous removal of CO2 and H2S in a packed column reactor. Energy, 2010, 35, 4531-4535.	8.8	258
2	Indoor/outdoor relationships of size-resolved particle concentrations in naturally ventilated school environments. Building and Environment, 2009, 44, 188-197.	6.9	90
3	Long-term operation of a small biogas/diesel dual-fuel engine for on-farm electricity generation. Biosystems Engineering, 2007, 98, 26-32.	4.3	82
4	Minimizing tar formation whilst enhancing syngas production by integrating biomass torrefaction pretreatment with chemical looping gasification. Applied Energy, 2020, 260, 114315.	10.1	75
5	Effect of densification parameters on the properties of maize residue pellets. Biosystems Engineering, 2015, 139, 111-120.	4.3	70
6	Non-isothermal pyrolysis characteristics of giant sensitive plants using thermogravimetric analysis. Bioresource Technology, 2010, 101, 5638-5644.	9.6	66
7	Energy efficiency improvements in longan drying practice. Energy, 2008, 33, 1137-1143.	8.8	62
8	Biomass derived N-doped biochar as efficient catalyst supports for CO2 methanation. Journal of CO2 Utilization, 2019, 34, 733-741.	6.8	62
9	Overview of livestock biogas technology development and implementation in Thailand. Energy for Sustainable Development, 2013, 17, 371-377.	4.5	61
10	Pyrolysis behavior and kinetics of corn residue pellets and eucalyptus wood chips in a macro thermogravimetric analyzer. Case Studies in Thermal Engineering, 2018, 12, 546-556.	5.7	60
11	Thermogravimetric analysis of giant sensitive plants under air atmosphere. Bioresource Technology, 2010, 101, 9314-9320.	9.6	57
12	Performance and emissions of a modified small engine operated on producer gas. Energy Conversion and Management, 2015, 94, 286-292.	9.2	57
13	An electrostatic sensor for the continuous monitoring of particulate air pollution. Korean Journal of Chemical Engineering, 2013, 30, 2205-2212.	2.7	54
14	Reducing emission of NOx and SOx precursors while enhancing char production from pyrolysis of sewage sludge by torrefaction pretreatment. Energy, 2020, 192, 116620.	8.8	53
15	Production and characterization of bio-oil and biochar from ablative pyrolysis of lignocellulosic biomass residues. Chemical Engineering Communications, 2020, 207, 153-160.	2.6	49
16	Machine learning application to predict yields of solid products from biomass torrefaction. Renewable Energy, 2021, 167, 425-432.	8.9	49
17	Technical and Economic Analysis of A Biomass Pyrolysis Plant. Energy Procedia, 2015, 79, 950-955.	1.8	48
18	Torrefaction of pelletized corn residues with wet flue gas. Bioresource Technology, 2019, 285, 121330.	9.6	47

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19	Enhancing the fuel properties of rubberwood biomass by moving bed torrefaction process for further applications. Renewable Energy, 2021, 170, 703-713.	8.9	46
20	Machine learning prediction of cellulose-rich materials from biomass pretreatment with ionic liquid solvents. Bioresource Technology, 2021, 323, 124642.	9.6	44
21	Progress in unipolar corona discharger designs for airborne particle charging: A literature review. Journal of Electrostatics, 2009, 67, 605-615.	1.9	43
22	An Overview of Unipolar Charger Developments for Nanoparticle Charging. Aerosol and Air Quality Research, 2011, 11, 187-209.	2.1	43
23	Effect of needle cone angle and air flow rate on electrostatic discharge characteristics of a corona-needle ionizer. Journal of Electrostatics, 2010, 68, 254-260.	1.9	37
24	Effect of Operating Conditions on Catalytic Gasification of Bamboo in a Fluidized Bed. International Journal of Chemical Engineering, 2013, 2013, 1-9.	2.4	37
25	Recovery of Value-Added Products from Hydrothermal Carbonization of Sewage Sludge. ISRN Chemical Engineering, 2013, 2013, 1-6.	1.2	37
26	An experimental study of relative humidity and air flow effects on positive and negative corona discharges in a corona-needle charger. Journal of Electrostatics, 2015, 77, 116-122.	1.9	33
27	Thermal degradation kinetics of sawdust under intermediate heating rates. Applied Thermal Engineering, 2016, 103, 170-176.	6.0	33
28	Gasification of cashew nut shells for thermal application in local food processing factory. Energy for Sustainable Development, 2011, 15, 69-72.	4.5	31
29	Transesterification of palm oil into biodiesel using ChOH ionic liquid in a microwave heated continuous flow reactor. Renewable Energy, 2020, 154, 925-936.	8.9	30
30	Production and characterization of bio-oils from fast pyrolysis of tobacco processing wastes in an ablative reactor under vacuum. PLoS ONE, 2021, 16, e0254485.	2.5	30
31	Interpretable machine-learning model with a collaborative game approach to predict yields and higher heating value of torrefied biomass. Energy, 2022, 249, 123676.	8.8	30
32	Performance evaluation of premixed burner fueled with biomass derived producer gas. Case Studies in Thermal Engineering, 2017, 9, 40-46.	5.7	29
33	Yields and Gaseous Composition from Slow Pyrolysis of Refuse-derived Fuels. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2008, 30, 1572-1580.	2.3	27
34	Energy conservation in drying of peeled longan by forced convection and hot air recirculation. Biosystems Engineering, 2009, 104, 199-204.	4.3	27
35	Continuous-flow transesterification of crude jatropha oil with microwave irradiation. Scientia Iranica, 2012, 19, 1324-1328.	0.4	27
36	Torrefaction of Maize Residue Pellets with Dry Flue Gas. Bioenergy Research, 2020, 13, 358-368.	3.9	26

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37	Particulate Emission Reduction from Biomass Burning in Small Combustion Systems with a Multiple Tubular Electrostatic Precipitator. Particulate Science and Technology, 2010, 28, 547-565.	2.1	25
38	Thermal Degradation Characteristics and Kinetics of Oxy Combustion of Corn Residues. Advances in Materials Science and Engineering, 2015, 2015, 1-8.	1.8	25
39	A high-performance oxygen carrier with high oxygen transport capacity and redox stability for chemical looping combustion. Energy Conversion and Management, 2019, 202, 112209.	9.2	25
40	Bio-oils from vacuum ablative pyrolysis of torrefied tobacco residues. RSC Advances, 2020, 10, 34986-34995.	3.6	25
41	Biochar Production from Cassava Rhizome in a Semi-continuous Carbonization System. Energy Procedia, 2017, 141, 109-113.	1.8	23
42	Biomass gasification in a fixed bed downdraft reactor with oxygen enriched air: a modified equilibrium modeling study. Energy Procedia, 2019, 160, 317-323.	1.8	22
43	Experimental investigation of an automotive air-conditioning system driven by a small biogas engine. Applied Thermal Engineering, 2010, 30, 400-405.	6.0	21
44	Predicting Ash Deposit Tendency in Thermal Utilization of Biomass. Engineering Journal, 2016, 20, 15-24.	1.0	21
45	Characterization of ambient aerosols in Northern Thailand and their probable sources. International Journal of Environmental Science and Technology, 2006, 3, 359-369.	3.5	19
46	Energetic and Economic Feasibility of RDF to Energy Plant for a Local Thai Municipality. Energy Procedia, 2017, 110, 115-120.	1.8	18
47	Multiscale Modeling of PEMFC Using Co-Simulation Approach. Journal of the Electrochemical Society, 2019, 166, F534-F543.	2.9	18
48	A biomethane solution for domestic cooking in Thailand. Energy for Sustainable Development, 2014, 23, 68-77.	4.5	17
49	Cost analysis of community scale smokeless charcoal briquette production from agricultural and forest residues. Energy Procedia, 2019, 160, 310-316.	1.8	17
50	Numerical Study of Electrochemical Kinetics and Mass Transport inside Nano-Structural Catalyst Layer of PEMFC Using Lattice Boltzmann Agglomeration Method. Journal of the Electrochemical Society, 2020, 167, 013516.	2.9	17
51	Optimization of process variables for esterification of bio-oil model compounds by a heteropolyacid catalyst. Energy Reports, 2020, 6, 1-9.	5.1	17
52	Brownian diffusion effect on nanometer aerosol classification in electrical mobility spectrometer. Korean Journal of Chemical Engineering, 2009, 26, 269-276.	2.7	16
53	Development and Evaluation of a Faraday Cup Electrometer for Measuring and Sampling Atmospheric lons and Charged Aerosols. Particulate Science and Technology, 2015, 33, 257-263.	2.1	16
54	Analysis of reaction kinetics for torrefaction of pelletized agricultural biomass with dry flue gas. Energy Reports, 2020, 6, 61-65.	5.1	16

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55	Design and Evaluation of a High Concentration, High Penetration Unipolar Corona Ionizer for Electrostatic Discharge and Aerosol Charging. Journal of Electrical Engineering and Technology, 2013, 8, 1175-1181.	2.0	16
56	Development and Performance Evaluation of a Biomass Gasification System for Ceramic Firing Procedia, 2017, 110, 53-58.	1.8	15
57	Performances of functional groups and KOH-transformation in corn stover waste through catalytic pyrolysis. Journal of Analytical and Applied Pyrolysis, 2021, 157, 105234.	5.5	15
58	Quantitative structure-reactivity relationships for pyrolysis and gasification of torrefied xylan. Energy, 2019, 188, 116119.	8.8	14
59	Optimizing multiple reservoir system operation for maximum hydroelectric power generation. Energy Reports, 2020, 6, 67-75.	5.1	14
60	Development of a laboratory scale air plasma torch and its application to electronic waste treatment. International Journal of Environmental Science and Technology, 2009, 6, 407-414.	3.5	12
61	Simulation analysis of the catalytic cracking process of biomass pyrolysis oil with mixed catalysts: Optimization using the simplex lattice design. International Journal of Energy Research, 2018, 42, 2983-2996.	4.5	12
62	Gasification of Pelletized Corn Residues with Oxygen Enriched Air and Steam. International Journal of Renewable Energy Development, 2019, 8, 215-224.	2.4	12
63	Evaluating tar production via the release of volatile matters for H2-rich syngas production. International Journal of Hydrogen Energy, 2020, 45, 3712-3720.	7.1	12
64	Kinetic and thermodynamic analyses for pyrolysis of hemp hurds using discrete distributed activation energy model. Case Studies in Thermal Engineering, 2022, 31, 101870.	5.7	12
65	Ethanolysis of soybean oil into biodiesel: process optimization via central composite design. Journal of Mechanical Science and Technology, 2005, 19, 1902-1909.	1.5	11
66	Nonisothermal Thermogravimetric Analysis of Thai Lignite with High CaO Content. Scientific World Journal, The, 2013, 2013, 1-7.	2.1	11
67	Characterization of Slag from Combustion of Pulverized Lignite with High Calcium Content in Utility Boiler. Energy Exploration and Exploitation, 2014, 32, 471-482.	2.3	11
68	The use of ferrites as highly active oxygen storage materials for chemical looping hydrogen production under intermediate temperature. International Journal of Hydrogen Energy, 2019, 44, 28638-28648.	7.1	11
69	Conversion of tobacco processing waste to biocrude oil via hydrothermal liquefaction in a multiple batch reactor. Clean Technologies and Environmental Policy, 2021, , 1-11.	4.1	11
70	Optimization of Two-Step Biodiesel Production from Beef Tallow with Microwave Heating. Chemical Engineering Communications, 2017, 204, 618-624.	2.6	10
71	Performance investigation of a gasifier and gas engine system operated on municipal solid waste briquettes. International Journal of Renewable Energy Development, 2019, 8, 179-184.	2.4	10
72	Catalytic torrefaction of pelletized agro-residues with Cu/Al2O3 catalysts. Biomass Conversion and Biorefinery, 2021, 11, 1847-1852.	4.6	10

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73	Investigation of a Small Biomass Gasifier–engine System Operation and Its Application to Water Pumping in Rural Thailand. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2013, 35, 476-486.	2.3	9
74	Prediction of small spark ignited engine performance using producer gas as fuel. Case Studies in Thermal Engineering, 2015, 5, 98-103.	5.7	9
75	Bio-oil Production from Ablative Pyrolysis of Corncob Pellets in a Rotating Blade Reactor. IOP Conference Series: Earth and Environmental Science, 2018, 159, 012037.	0.3	9
76	Hydrochar Generation from Hydrothermal Carbonization of Organic Wastes. IOP Conference Series: Earth and Environmental Science, 2018, 159, 012001.	0.3	9
77	Techno-economic assessment of a biomass torrefaction plant for pelletized agro-residues with flue gas as a main heat source. Energy Reports, 2020, 6, 92-96.	5.1	9
78	Use of rice husk and corncob as renewable energy sources for tobacco-curing. Energy for Sustainable Development, 2006, 10, 68-73.	4.5	8
79	Development of a PM2.5 sampler with inertial impaction for sampling airborne particulate matter. Korean Journal of Chemical Engineering, 2012, 29, 1044-1049.	2.7	8
80	Converting LPG Stoves To Use Biomethane. Distributed Generation and Alternative Energy Journal, 2015, 30, 38-57.	0.8	8
81	Application of Gaussian Smoothing Technique in Evaluation of Biomass Pyrolysis Kinetics in Macro-TGA. Energy Procedia, 2017, 138, 778-783.	1.8	8
82	Pyrolysis of Corn Residues: Kinetic Analysis using Discrete Distributed Activation Energy Model. IOP Conference Series: Earth and Environmental Science, 2018, 159, 012036.	0.3	8
83	Upgrading of biomass pyrolysis oil model compound via esterification: Kinetic study using heteropoly acid. Energy Procedia, 2019, 160, 253-259.	1.8	8
84	Technical and economic analysis of retrofitting a post-combustion carbon capture system in a Thai coal-fired power plant. Energy Reports, 2021, 7, 308-313.	5.1	8
85	Experimental characterization of a short electrical mobility spectrometer for aerosol size classification. Korean Journal of Chemical Engineering, 2009, 26, 1770-1777.	2.7	7
86	Superheated Steam Drying of Cashew Kernels with Testa. Energy Procedia, 2017, 138, 674-679.	1.8	7
87	Effect of process conditions on properties of biochar from agricultural residues. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012005.	0.3	7
88	An approach to characterization and after-treatment of particulate emissions from gasoline engines. International Journal of Engine Research, 2000, 1, 291-300.	2.3	6
89	Partial oxidation reforming of simulated biogas in gliding arc discharge system. Periodica Polytechnica: Chemical Engineering, 2014, 58, 31.	1.1	6
90	Microwave plasma assisted pyrolysis of refuse derived fuels. Open Engineering, 2014, 4, .	1.6	6

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91	Simplex Lattice Approach to Optimize Yields of Light Oil Products from Catalytic Cracking of Bio-Oil with Mixed Catalysts. Chemical Engineering Communications, 2017, 204, 677-688.	2.6	6
92	Fuel Recovery from Thermal Processing of Post-consumer Footwear Waste. Energy Engineering: Journal of the Association of Energy Engineers, 2017, 114, 7-16.	0.5	6
93	Utilization of Biomass Energy in Drying of Glutinous Rice Crackers. Energy Procedia, 2017, 138, 331-336.	1.8	6
94	Supply chain analysis of smokeless charcoal from maize residues. Energy Reports, 2020, 6, 60-66.	5.1	6
95	Developing the high energy performance standards for oil-injected air-cooled screw air compressor for Thailand. Energy Reports, 2020, 6, 617-621.	5.1	6
96	Densification of Corncobs Using Algae as a Binder. Chiang Mai University Journal of Natural Sciences, 2017, 16, .	0.1	6
97	Demonstration of a Modular Electrostatic Precipitator to Control Particulate Emissions from a Small Municipal Waste Incinerator. Journal of Electrical Engineering and Technology, 2014, 9, 239-246.	2.0	6
98	Non-thermal plasma removal of naphthalene as tar model compound from biomass gasification. Energy Reports, 2022, 8, 97-103.	5.1	6
99	Compositional analysis of bio-oils from hydrothermal liquefaction of tobacco residues using two-dimensional gas chromatography and time-of-flight mass spectrometry. Science Progress, 2021, 104, 368504211064486.	1.9	6
100	Model prediction of indoor particle concentrations in a public school classroom. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2007, 30, 1077-1083.	1.1	5
101	Performance evaluation of an electrometer system for ion and aerosol charge measurements. Korean Journal of Chemical Engineering, 2011, 28, 527-530.	2.7	5
102	Use of electrostatic precipitation for excess ion trapping in an electrical aerosol detector. Journal of Electrostatics, 2011, 69, 320-327.	1.9	5
103	Experimental Investigation of Biogas Reforming in Gliding Arc Plasma Reactors. International Journal of Chemical Engineering, 2014, 2014, 1-9.	2.4	5
104	Sustainable Energy from Biogas Reforming in a Microwave Discharge Reactor. Procedia Engineering, 2015, 118, 120-127.	1.2	5
105	Microwave Assisted Production of Biodiesel From Beef Tallow. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37, 1513-1519.	2.3	5
106	Upgrading biomass pyrolysis oil model compound via esterification with ethanol over a heteropoly acid. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, , 1-12.	2.3	5
107	Long Term Direct Injection Diesel Engine Operation on Vegetable Oil/Diesel Blends. , 2003, , .		4
108	Investigation and characterization of cross ventilating flows through openings in a school classroom. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2008, 31, 587-603.	1.1	4

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109	Improvement of Airflow Distribution in a Glutinous Rice Cracker Drying Cabinet. Energy Procedia, 2017, 138, 325-330.	1.8	4
110	Characterization of hydrochar from hydrothermal carbonization of maize residues. Energy Reports, 2020, 6, 114-118.	5.1	4
111	Biogas production from high solids digestion of Pennisetum purpureum x Pennisetum typhoideum: Suitable conditions and microbial communities. Journal of Environmental Management, 2021, 299, 113570.	7.8	4
112	Performance and Thermoeconomic Analysis of a Biogas Engine Powered Ventilation System for Livestock Building. Engineering Journal, 2014, 18, 1-10.	1.0	4
113	Development of a fast-response, high-resolution electrical mobility spectrometer. Korean Journal of Chemical Engineering, 2011, 28, 279-286.	2.7	3
114	Electrostatic Evaluation of a Unipolar Diffusion and Field Charger of Aerosol Particles by a Corona Discharge. Particulate Science and Technology, 2013, 31, 621-631.	2.1	3
115	Simulation of Producer Gas Combustion in a Premixed Burner for Ceramic Firing Process. Energy Procedia, 2017, 138, 622-627.	1.8	3
116	Simulation and experimental analysis of shell and tube heat exchanger for the drying system. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012132.	0.3	3
117	Comparison between simulations and experiment for heat transfer characteristics in the re-burning kiln heat exchanger. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012136.	0.3	3
118	Characterization of laminar premixed flame firing biomass derived syngas with oxygen enriched air. International Journal of Smart Grid and Clean Energy, 2019, , 702-709.	0.4	3
119	Characterization of Bio-oils from Jatropha Residues and Mixtures of Model Compounds. Chiang Mai University Journal of Natural Sciences, 2017, 16, .	0.1	3
120	Field evaluation of an electrostatic PM10 mass monitor used for continuous ambient particulate air pollution measurements. Journal of Electrostatics, 2015, 78, 46-54.	1.9	2
121	Removal of biomass tar model compound using reverse vortex flow gliding arc discharge. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, , 1-15.	2.3	2
122	Investigation on the Electrical Discharge Characteristics of a Unipolar Corona-Wire Aerosol Charger. Journal of Electrical Engineering and Technology, 2011, 6, 556-562.	2.0	2
123	Simulation of flow and thermal comfort zones in a Thai state school. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2012, 35, 115-128.	1.1	1
124	Design and Performance Analysis of a Biodiesel Engine Driven Refrigeration System for Vaccine Storage. International Journal of Renewable Energy Development, 2013, 2, 117-124.	2.4	1
125	Optimization of process variables for drying of cashew nuts by superheated steam. Cogent Engineering, 2018, 5, 1531457.	2.2	1
126	Experimental Investigation of hot Water Generation from Small CaO/Ca(OH)2 Thermochemical Energy Storage System. IOP Conference Series: Earth and Environmental Science, 2018, 159, 012002.	0.3	1

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127	Title is missing!. ScienceAsia, 2006, 32, 039.	0.5	1
128	Thermo-fluid characterization of flue gas flows through a packed bed. Journal of Mechanical Science and Technology, 2008, 22, 973-980.	1.5	0
129	Influence of Diffusion on the Resolution of a Multi-Channel Electrical Mobility Analyzer. Particulate Science and Technology, 2013, 31, 128-135.	2.1	0
130	Exploring Suitable Utilization of Waste Tires in Chiang Mai. Energy Procedia, 2017, 110, 174-179.	1.8	0