Animesh Dutta

List of Publications by Citations

161 papers	5,842 citations	34 h-index	74 g-index
164 ext. papers	7,158 ext. citations	5 avg, IF	6.73 L-index

#	Paper	IF	Citations
161	A comparative review of biochar and hydrochar in terms of production, physico-chemical properties and applications. *Renewable and Sustainable Energy Reviews*, **2015**, 45, 359-378	16.2	788
160	A review on thermal and catalytic pyrolysis of plastic solid waste (PSW). *Journal of Environmental Management*, **2017**, 197, 177-198	7.9	414
159	Torrefaction of Agriculture Residue To Enhance Combustible Properties *Energy & Fuels*, **2010**, 24, 4638-4645	4.1	294
158	Thermodynamic equilibrium model and second law analysis of a downdraft waste gasifier. *Energy*, **2007**, 32, 1660-1669	7.9	288
157	Strength, storage, and combustion characteristics of densified lignocellulosic biomass produced via torrefaction and hydrothermal carbonization. *Applied Energy*, **2014**, 135, 182-191	10.7	236
156	Production of activated carbon from coconut shell: optimization using response surface methodology. *Bioresource Technology*, **2008**, 99, 4887-95	11	229
155	An investigation into steam gasification of biomass for hydrogen enriched gas production in presence of CaO. *International Journal of Hydrogen Energy*, **2010**, 35, 1582-1589	6.7	215
154	Equilibrium modeling of gasification: Gibbs free energy minimization approach and its application to spouted bed and spout-fluid bed gasifiers. *Energy Conversion and Management*, **2008**, 49, 1345-1356	10.6	178
153	Comparative evaluation of torrefaction and hydrothermal carbonization of lignocellulosic biomass for the production of solid biofuel. *Energy Conversion and Management*, **2015**, 105, 746-755	10.6	177
152	Challenges and opportunities of lignocellulosic biomass for anaerobic digestion. *Resources, Conservation and Recycling*, **2018**, 130, 164-174	11.9	176
151	Friction and heat transfer characteristics of laminar swirl flow through a circular tube fitted with regularly spaced twisted-tape elements. *International Journal of Heat and Mass Transfer*, **2001**, 44, 4211-4223	4.9	167
150	A review of the current knowledge and challenges of hydrothermal carbonization for biomass conversion. *Journal of the Energy Institute*, **2019**, 92, 1779-1799	5.7	133
149	A review on advances of torrefaction technologies for biomass processing. *Biomass Conversion and Biorefinery*, **2012**, 2, 349-369	2.3	132
148	CaO-based CO2 sorbents: A review on screening, enhancement, cyclic stability, regeneration and kinetics modelling. *Journal of CO2 Utilization*, **2018**, 23, 179-199	7.6	113
147	Chemical-Looping Gasification of Biomass for Hydrogen-Enriched Gas Production with In-Process Carbon Dioxide Capture. *Energy & Fuels*, **2009**, 23, 5077-5083	4.1	97
146	Energy storage system based on nanoparticle-enhanced phase change material inside porous medium. *International Journal of Thermal Sciences*, **2015**, 91, 49-58	4.1	96
145	Nano-PCM filled energy storage system for solar-thermal applications. *Renewable Energy*, **2018**, 126, 137-155	8.1	82

144	Review on comparative study of dry and wet torrefaction. *Sustainable Energy Technologies and Assessments*, **2015**, 12, 26-37	4.7	81
143	An experimental study of combustion and emissions of biomass pellets in a prototype pellet furnace. *Applied Energy*, **2013**, 108, 298-307	10.7	79
142	Convection effect on the melting process of nano-PCM inside porous enclosure. *International Journal of Heat and Mass Transfer*, **2015**, 85, 206-220	4.9	73
141	Thermohydraulic Study of Laminar Swirl Flow Through a Circular Tube Fitted With Twisted Tapes. *Journal of Heat Transfer*, **2001**, 123, 417-427	1.8	72
140	Process Water from the Hydrothermal Carbonization of Biomass: A Waste or a Valuable Product?. *Waste and Biomass Valorization*, **2018**, 9, 1181-1189	3.2	68
139	Review of biosolids management options and co-incineration of a biosolid-derived fuel. *Waste Management*, **2011**, 31, 2228-35	8.6	56
138	Charging nanoparticle enhanced bio-based PCM in open cell metallic foams: An experimental investigation. *Applied Thermal Engineering*, **2019**, 148, 1029-1042	5.8	56
137	Hydrothermal Carbonization of Fruit Wastes: A Promising Technique for Generating Hydrochar. *Energies*, **2018**, 11, 2022	3.1	50
136	Comparison of liquid and vapor hydrothermal carbonization of corn husk for the use as a solid fuel. *Bioresource Technology*, **2016**, 200, 804-11	11	47
135	Torrefaction of non -lignocellulose biomass waste. *Canadian Journal of Chemical Engineering*, **2012**, 90, 186-195	2.3	43
134	Impact of agronomic treatments on fuel characteristics of herbaceous biomass for combustion. *Fuel Processing Technology*, **2013**, 109, 96-102	7.2	43
133	An investigation of MSW gasification in a spout-fluid bed reactor. *Fuel Processing Technology*, **2008**, 89, 949-957	7.2	43
132	Effects of Reactor Design on the Torrefaction of Biomass. *Journal of Energy Resources Technology, Transactions of the ASME*, **2012**, 134,	2.6	41
131	Melting of nano-PCM in an enclosed space: Scale analysis and heatline tracking. *International Journal of Heat and Mass Transfer*, **2018**, 119, 841-859	4.9	38
130	Chemical looping gasification for hydrogen production: A comparison of two unique processes simulated using ASPEN Plus. *International Journal of Hydrogen Energy*, **2014**, 39, 5804-5817	6.7	38
129	Review of syngas fermentation processes for bioethanol. *Biofuels*, **2014**, 5, 551-564	2	36
128	Intensified green production of astaxanthin from Haematococcus pluvialis. *Food and Bioproducts Processing*, **2016**, 99, 1-11	4.9	34
127	Prediction of Hydrothermal Carbonization with Respect to the Biomass Components and Severity Factor. *Energy & Fuels*, **2019**, 33, 9916-9924	4.1	32

126	Effects of Process Water Recycling and Particle Sizes on Hydrothermal Carbonization of Biomass. *Energy & Fuels*, **2018**, 32, 11576-11586	4.1	32
125	Melting of nano-phase change material inside a porous enclosure. *International Journal of Heat and Mass Transfer*, **2016**, 102, 773-787	4.9	31
124	Simulation and kinetic modeling of supercritical water gasification of biomass. *International Journal of Hydrogen Energy*, **2015**, 40, 4481-4493	6.7	30
123	Integrated Haematococcus pluvialis biomass production and nutrient removal using bioethanol plant waste effluent. *Chemical Engineering Research and Design*, **2017**, 111, 128-137	5.5	29
122	Technological and life cycle assessment of organics processing odour control technologies. *Science of the Total Environment*, **2015**, 527-528, 401-12	10.2	28
121	Dry reforming of multiple biogas types for syngas production simulated using Aspen Plus: The use of partial oxidation and hydrogen combustion to achieve thermo-neutrality. *International Journal of Hydrogen Energy*, **2015**, 40, 6307-6318	6.7	26
120	Biochar as a filler in glassfiber reinforced composites: Experimental study of thermal and mechanical properties. *Composites Part B: Engineering*, **2019**, 175, 107169	10	24
119	Catalytic supercritical gasification of biocrude from hydrothermal liquefaction of cattle manure. *Applied Catalysis B: Environmental*, **2016**, 189, 119-132	21.8	24
118	Bio-carbon production by oxidation and hydrothermal carbonization of paper recycling black liquor. *Journal of Cleaner Production*, **2019**, 213, 332-341	10.3	23
117	Effect of Convection Heat Transfer on Performance of Waste Heat Thermoelectric Generator. *Heat Transfer Engineering*, **2015**, 36, 1458-1471	1.7	22
116	Potential of sustainable energy technologies under CDM in Thailand: Opportunities and barriers. *Renewable Energy*, **2008**, 33, 2122-2133	8.1	22
115	An experimental investigation into the heat transfer on wing walls in a circulating fluidized bed boiler. *International Journal of Heat and Mass Transfer*, **2002**, 45, 4479-4491	4.9	22
114	Experimental investigation of a multi-stage air-steam gasification process for hydrogen enriched gas production. *International Journal of Energy Research*, **2012**, 36, 335-345	4.5	21
113	An Improved Cluster-Renewal Model for the Estimation of Heat Transfer Coefficients on the Furnace Walls of Commercial Circulating Fluidized Bed Boilers. *Journal of Heat Transfer*, **2004**, 126, 1040-1043	1.8	21
112	Co-Benefits of Wollastonite Weathering in Agriculture: CO Sequestration and Promoted Plant Growth. *ACS Omega*, **2019**, 4, 1425-1433	3.9	21
111	Fuel property enhancement of lignocellulosic and nonlignocellulosic biomass through torrefaction. *Biomass Conversion and Biorefinery*, **2016**, 6, 139-149	2.3	19
110	Numerical simulation of nanostructured thermoelectric generator considering surface to surrounding convection. *International Communications in Heat and Mass Transfer*, **2014**, 56, 146-151	5.8	19
109	Greenhouse gas emissions and production cost of ethanol produced from biosyngas fermentation process. *Bioresource Technology*, **2015**, 192, 185-91	11	19

108	Numerical Comparison of a Combined Hydrothermal Carbonization and Anaerobic Digestion System with Direct Combustion of Biomass for Power Production. *Processes*, **2020**, 8, 43	2.9	18
107	Municipal Food Waste to Biomethane and Biofertilizer: A Circular Economy Concept. *Waste and Biomass Valorization*, **2018**, 9, 601-611	3.2	18
106	Circulating-Fluidized-Bed-Based Calcium-Looping Gasifier: Experimental Studies on the Calcination□arbonation Cycle. *Industrial & Engineering Chemistry Research*, **2012**, 51, 8652-8660	3.9	18
105	Hydrothermal Conversion of Neutral Sulfite Semi-Chemical Red Liquor into Hydrochar. *Energies*, **2016**, 9, 435	3.1	18
104	An investigation of the heat transfer behavior of longitudinal finned membrane water wall tubes in circulating fluidized bed boilers. *Powder Technology*, **2009**, 193, 187-194	5.2	17
103	Biochar-based composites as electrode active materials in hybrid supercapacitors with particular focus on surface topography and morphology. *Journal of Energy Storage*, **2020**, 29, 101291	7.8	16
102	Potential value added applications of black liquor generated at paper manufacturing industry using recycled fibers. *Journal of Cleaner Production*, **2017**, 149, 156-163	10.3	15
101	Hydrogen-Rich Gas Stream from Steam Gasification of Biomass: Eggshell as a CO2 Sorbent. *Energy & Fuels*, **2020**, 34, 4828-4836	4.1	15
100	A review of catalytic partial oxidation of fossil fuels and biofuels: Recent advances in catalyst development and kinetic modelling. *Chemical Engineering Research and Design*, **2018**, 136, 385-402	5.5	15
99	Qualitative and kinetic analysis of torrefaction of lignocellulosic biomass using DSC-TGA-FTIR. *AIMS Energy*, **2015**, 3, 760-773	1.8	14
98	Integrated hybrid architecture of metal and biochar for high performance asymmetric supercapacitors. *Scientific Reports*, **2021**, 11, 5387	4.9	14
97	Catalytic Hydrothermal Carbonization Treatment of Biomass for Enhanced Activated Carbon: A Review. *Waste and Biomass Valorization*, **2021**, 12, 2171-2186	3.2	14
96	Hydrothermal Carbonization of Peat Moss and Herbaceous Biomass (Miscanthus): A Potential Route for Bioenergy. *Energies*, **2018**, 11, 2794	3.1	14
95	Numerical investigation of CO2 valorization via the steam gasification of biomass for producing syngas with flexible H2 to CO ratio. *Journal of CO2 Utilization*, **2018**, 27, 32-41	7.6	13
94	Energy Potential of Plastic Waste Valorization: A Short Comparative Assessment of Pyrolysis versus Gasification. *Energy & Fuels*, **2021**, 35, 3558-3571	4.1	13
93	Life cycle assessment of ethanol derived from sawdust. *Bioresource Technology*, **2013**, 150, 407-11	11	12
92	Characterization of Torrefied Willow for Combustion Application. *Journal of Biobased Materials and Bioenergy*, **2013**, 7, 667-674	1.4	12
91	Eggshell as a potential CO sorbent in the calcium looping gasification of biomass. *Waste Management*, **2018**, 80, 274-284	8.6	12

90	1.19 Biomass Energy **2018**, 770-794		12
89	Beneficiation of renewable industrial wastes from paper and pulp processing. *AIMS Energy*, **2018**, 6, 880-897	2.7	11
88	Biocarbon, biomethane and biofertilizer from corn residue: A hybrid thermo-chemical and biochemical approach. *Energy*, **2018**, 165, 370-384	7.9	11
87	Evaluation of the life cycle of hydrothermally carbonized biomass for energy and horticulture application. *Renewable and Sustainable Energy Reviews*, **2020**, 132, 110046	16.2	10
86	Steam gasification of hydrochar derived from hydrothermal carbonization of fruit wastes. *Renewable Energy*, **2021**, 171, 582-591	8.1	10
85	Gasification of Plastic Solid Waste and Competitive Technologies **2019**, 269-293		10
84	Pyrolysis kinetics of Sal (Shorea robusta) seeds. *Biomass Conversion and Biorefinery*, **2017**, 7, 237-246	2.3	9
83	Gasification of biomass in a circulating fluidized bed based calcium looping gasifier for hydrogen-enriched gas production: experimental studies. *Biofuels*, **2017**, 8, 643-650	2	9
82	Prediction of the heat flux profile on the furnace wall of circulating fluidized bed boilers. *Journal of the Energy Institute*, **2014**, 87, 314-320	5.7	9
81	An experimental investigation of the effect of longitudinal fin orientation on heat transfer in membrane water wall tubes in a circulating fluidized bed. *International Journal of Heat and Mass Transfer*, **2009**, 52, 1552-1560	4.9	9
80	Product evaluation of hydrothermal carbonization of biomass: semi-continuous vs. batch feeding. *Biomass Conversion and Biorefinery*, **2020**, 1	2.3	9
79	Ethanol production by syngas fermentation in a continuous stirred tank bioreactor using Clostridium ljungdahlii. *Biofuels*, **2019**, 10, 221-237	2	9
78	Development of a mathematical model for hydrothermal carbonization of biomass: Comparison of experimental measurements with model predictions. *Energy*, **2021**, 214, 119020	7.9	9
77	Experimental study on sawdust gasification in a spouted fluid bed reactor. *International Journal of Energy Research*, **2012**, 36, 204-217	4.5	8
76	An Approach to Identify the Suitable Plant Location for Miscanthus-Based Ethanol Industry: A Case Study in Ontario, Canada. *Energies*, **2015**, 8, 9266-9281	3.1	8
75	An Investigation Into the Operation of the Twin-Exit Loop-Seal of a Circulating Fluidized Bed Boiler in a Thermal Power Plant and Its Design Implication. *Journal of Energy Resources Technology, Transactions of the ASME*, **2009**, 131,	2.6	8
74	Latest advances on hybrid solar-biomass power plants. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*,1-24	1.6	8
73	Mild Hydrothermal Liquefaction of High Water Content Agricultural Residue for Bio-Crude Oil Production: A Parametric Study. *Energies*, **2018**, 11, 3129	3.1	8

72	Assessment of Greenhouse Gas Emissions from Ontario Solid Waste Landfills: Assessment of Improvement Scenarios. *Journal of Environmental Engineering, ASCE*, **2019**, 145, 05019004	2	7
71	Techno-economic assessment of corn stover for hybrid bioenergy production: A sustainable approach. *Case Studies in Thermal Engineering*, **2019**, 13, 100408	5.6	7
70	Development and evaluation of a functional bioreactor for CO fermentation into ethanol. *Bioresources and Bioprocessing*, **2016**, 3,	5.2	7
69	Fluidization characteristics of rice husk in a bubbling fluidized bed. *Canadian Journal of Chemical Engineering*, **2010**, 88, 18-22	2.3	7
68	Biohydrogen Production by Catalytic Supercritical Water Gasification: A Comparative Study. *ACS Omega*, **2020**, 5, 15390-15401	3.9	7
67	Design of a ternary 3D composite from hydrochar, zeolite and magnetite powder for direct conversion of biomass to gasoline. *Chemical Engineering Journal*, **2021**, 410, 128323	14.7	7
66	Effect of convection heat transfer on thermal energy storage unit. *Open Physics*, **2018**, 16, 861-867	1.3	7
65	Bioenergy Combined with Carbon Capture Potential by Microalgae at Flue Gas-Based Carbon Sequestration Plant of NALCO as Accelerated Carbon Sink. *Green Energy and Technology*, **2017**, 231-244	0.6	6
64	Syngas Purification in Cryogenic Packed Beds Using a One-Dimensional Pseudo-homogenous Model. *Energy & Fuels*, **2015**, 29, 5028-5035	4.1	6
63	An Improvement of Cluster-Renewal Model for Estimation of Heat Transfer on the Water-Walls of Commercial CFB Boilers **2003**, 235		6
62	An Investigation on Heat Transfer to the Standpipe of a Circulating Fluidized Bed Boiler. *Chemical Engineering Research and Design*, **2003**, 81, 1003-1014	5.5	6
61	A study on potential recovery of energy and value-added chemicals from in-situ pyrolysis of Bambusa balcooa over basic metal oxides. *Journal of Analytical and Applied Pyrolysis*, **2020**, 147, 104801	6	6
60	Eggshell as a Carbon Dioxide Sorbent: Kinetics of the Calcination and Carbonation Reactions. *Energy & Fuels*, **2019**, 33, 4474-4486	4.1	5
59	Effect of thermal conductivity on performance of thermoelectric systems based on Effective Medium Theory. *International Journal of Heat and Mass Transfer*, **2015**, 91, 190-204	4.9	5
58	Baseline soil characterisation of active landfill sites for future restoration and development in the state of Kuwait. *International Journal of Environmental Science and Technology*, **2020**, 17, 4407-4418	3.3	5
57	An investigation of raw and torrefied lignocellulosic biomasses with CaO during combustion. *Journal of the Energy Institute*, **2018**, 91, 584-594	5.7	5
56	Mechanical and Alkaline Hydrothermal Treated Corn Residue Conversion in to Bioenergy and Biofertilizer: A Resource Recovery Concept. *Energies*, **2018**, 11, 516	3.1	5
55	Energy Streamlines Analyses on Natural Convection Within Porous Square Enclosure With Internal Obstructions. *Journal of Thermal Science and Engineering Applications*, **2013**, 5,	1.9	5

54	Experimental investigation into cavity-type inertial separators□ novel technique for development of subcompact circulating fluidized bed boilers. *International Journal of Energy Research*, **2005**, 29, 1279-1300	4.5	5
53	Life Cycle Assessment of Ethanol Produced from Wheat Straw. *Journal of Biobased Materials and Bioenergy*, **2012**, 6, 276-282	1.4	5
52	Wax Recovery from the Pyrolysis of Virgin and Waste Plastics. *Industrial & Engineering Chemistry Research*, **2021**, 60, 8301-8309	3.9	5
51	Life Cycle Assessment (LCA) of Bioethanol Produced From Different Food Crops: Economic and Environmental Impacts **2019**, 385-399		5
50	Hydrothermal carbonization valorization as an alternative application for corn bio-ethanol by-products. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105431	6.8	5
49	What is the best catalyst for biomass pyrolysis?. *Journal of Analytical and Applied Pyrolysis*, **2021**, 158, 105280	6	5
48	A Review of Graphene: Material Synthesis from Biomass Sources. *Waste and Biomass Valorization*, **2021**, 1-45	3.2	5
47	Application of analytical pyrolysis to gain insights into proteins of condensed corn distillers solubles from selective milling technology. *Food and Bioproducts Processing*, **2020**, 124, 354-368	4.9	4
46	Production of bio-syngas and biohydrogen via gasification **2011**, 420-459		4
45	Effects of FeCl Catalytic Hydrothermal Carbonization on Chemical Activation of Corn Wet Distillers' Fiber. *ACS Omega*, **2021**, 6, 14875-14886	3.9	4
44	Study of the fuel properties of extracted oils obtained from low and linear low density polyethylene pyrolysis. *Fuel*, **2021**, 304, 121396	7.1	4
43	Simulation of biomass-plastic co-gasification in a fluidized bed reactor using Aspen plus. *Fuel*, **2022**, 319, 123708	7.1	4
42	Characterization of ultrasonic-treated corn crop biomass using imaging, spectral and thermal techniques: a review. *Biomass Conversion and Biorefinery*, **2020**, 1	2.3	3
41	Modelling of heat transfer during torrefaction of large lignocellulosic biomass. *Heat and Mass Transfer*, **2018**, 54, 1989-1997	2.2	3
40	Analysis of combined solar photovoltaic-nanostructured thermoelectric generator system. *International Journal of Green Energy*, **2016**, 13, 1175-1184	3	3
39	Analytical and Numerical Studies of Heat Transfer in Nanocomposite Thermoelectric Coolers. *Journal of Electronic Materials*, **2015**, 44, 2915-2929	1.9	3
38	A Review of Life Cycle of Ethanol Produced from Biosyngas. *Bioethanol*, **2013**, 1,		3
37	Ash Analysis of Poultry Litter, Willow and Oats for Combustion in Boilers		3

36	New Insights for the Future Design of Composites Composed of Hydrochar and Zeolite for Developing Advanced Biofuels from Cranberry Pomace. *Energies*, **2020**, 13, 6600	3.1	3
35	The Valorization of Plastic Via Thermal Means: Industrial Scale Combustion Methods **2019**, 295-312		3
34	Physicochemical characteristics and pyrolysis kinetics of raw and torrefied hybrid poplar wood (NM6 Populus nigra). *Biofuels*, **2020**, 11, 329-338	2	3
33	Controlled release fertilizers (CRFs) for climate-smart agriculture practices: a comprehensive review on release mechanism, materials, methods of preparation, and effect on environmental parameters. *Environmental Science and Pollution Research*,	5.1	3
32	Heat transfer mechanisms in poplar wood undergoing torrefaction. *Heat and Mass Transfer*, **2016**, 52, 421-428	2.2	2
31	Optimum conditions for high distillation partition performance: Comparative studies. *Applied Thermal Engineering*, **2019**, 162, 114279	5.8	2
30	Numerical Investigation of the Effects of Coke on Transport Properties in an Oxidative Fuel Cell Reformer. *ACS Omega*, **2020**, 5, 28555-28564	3.9	2
29	Two-dimensional modeling of torrefaction of a large biomass particle. *International Journal of Green Energy*, **2017**, 14, 1119-1129	3	2
28	Heat transfer to the ceiling of the riser of a circulating fluidized bed. *Chemical Engineering Science*, **2006**, 61, 5907-5911	4.4	2
27	The Current Status and Future Potential of Biogas Production from Canada Organic Fraction Municipal Solid Waste. *Energies*, **2022**, 15, 475	3.1	2
26	Evaluation of nitrogenous pyrolysates by Py C/MS for impacts of different proteolytic enzymes on corn distillers solubles. *Food and Bioproducts Processing*, **2021**, 127, 225-243	4.9	2
25	Life Cycle Assessment (LCA) in Municipal Waste Management Decision Making **2019**, 377-402		2
24	A review on co-pyrolysis of biomass with plastics and tires: recent progress, catalyst development, and scaling up potential. *Biomass Conversion and Biorefinery*,1	2.3	2
23	Production of antioxidative protein hydrolysates from corn distillers solubles: Process optimization, antioxidant activity evaluation, and peptide analysis. *Industrial Crops and Products*, **2022**, 184, 115107	5.9	2
22	Revamping of 4 x 58 MWth Pulverized Coal-Fired Boilers With Circulating Fluidized Bed Firing **2003**, 125		1
21	A Innovative Solution to the Problem of Mill Rejects in Thermal Power Plants **2005**, 749		1
20	Hydrothermal liquefaction of green macroalgae Cladophora glomerata: Effect of functional groups on the catalytic performance of graphene oxide/polyurethane composite. *Catalysis Today*, **2022**,	5.3	1
19	Empirical model for predicting cross-sectional averaged suspension density in commercial circulating fluidised bed boilers. *Journal of the Energy Institute*, **2008**, 81, 69-75	5.7	1

18	Efficiency Analysis of Crude Versus Pure Cellulase in Industry. *Clean Energy Production Technologies*, **2020**, 283-298	0.8	1
17	Two-Stage Gasification of Wood with Preheated Air Supply **2000**, 557-561		1
16	Ash removal from various spent liquors by oxidation process for bio-carbon production. *Journal of Environmental Chemical Engineering*, **2020**, 8, 103520	6.8	1
15	Correlations to Predict Properties of Torrefied Biomass Using Mass Loss Fraction and Experimental Validation. *Energy & Fuels*, **2020**, 34, 11091-11102	4.1	1
14	Miscanthus to Biocarbon for Canadian Iron and Steel Industries: An Innovative Approach. *Energies*, **2021**, 14, 4493	3.1	1
13	Valorization and potential of condensed corn distillers solubles fractions from selective milling technology. *Biomass Conversion and Biorefinery*,1	2.3	1
12	In vitro plant tissue culture as the fifth generation of bioenergy.. *Scientific Reports*, **2022**, 12, 5038	4.9	1
11	Technologies for the production of renewable natural gas from organic wastes and their opportunities in existing Canadian pipelines. *Fuel Communications*, **2022**, 11, 100056	1	1
10	Pyrolysis of High-Density Polyethylene in a Fluidized Bed Reactor: Pyro-Wax and Gas Analysis. *Industrial & Engineering Chemistry Research*, **2021**, 60, 18283-18292	3.9	1
9	Exploration of corn distillers solubles from selective milling technology as a novel source of plant-based ACE inhibitory protein hydrolysates.. *Food Chemistry*, **2022**, 388, 133036	8.5	1
8	Computational Modeling Approaches of Hydrothermal Carbonization: A Critical Review. *Energies*, **2022**, 15, 2209	3.1	0
7	Hydrothermal Conversion of Waste Biomass from Greenhouses into Hydrochar for Energy, Soil Amendment, and Wastewater Treatment Applications. *Energies*, **2022**, 15, 3663	3.1	0
6	Heat transfer in standpipe of circulating fluidised bed boiler. *Journal of the Energy Institute*, **2009**, 82, 87-94	5.7	
5	Low-volatile coal combustion technologies in Vietnam: issues and strategies. *World Review of Science, Technology and Sustainable Development*, **2007**, 4, 306	1	
4	An Intelligent Tool for Evaluating Bids for Circulating Fluidized Bed Boilers **2003**, 113		
3	Miscanthus: a promising feedstock for lignocellulosic ethanol industry in Ontario, Canada. *AIMS Energy*, **2015**, 3, 562-575	1.8	
2	Effects of Reactor Wall Properties, Operating Conditions and Challenges for SCWG of Real Wet Biomass. *Biofuels and Biorefineries*, **2014**, 207-228	0.3	
1	Biomass-Based CO2 Adsorbents for Biogas Upgradation with Pressure Swing Adsorption. *Green Energy and Technology*, **2021**, 231-262	0.6	