

# Wei-Hsin Chen

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

431  
papers

16,169  
citations

71  
h-index

110  
g-index

460  
ext. papers

20,878  
ext. citations

7.8  
avg. IF

7.75  
L-index

#	Paper	IF	Citations
431	Investigation of Biomass Integrated Air Gasification Regenerative Gas Turbine Power Plants. <i>Energies</i> , <b>2022</b> , 15, 741	3.1	1
430	Optimization of a vertical axis wind turbine with a deflector under unsteady wind conditions via Taguchi and neural network applications. <i>Energy Conversion and Management</i> , <b>2022</b> , 254, 115209	10.6	3
429	Biochar production via pyrolysis of citrus peel fruit waste as a potential usage as solid biofuel.. <i>Chemosphere</i> , <b>2022</b> , 294, 133671	8.4	3
428	Disposal of plastic mulching film through CO-assisted catalytic pyrolysis as a strategic means for microplastic mitigation.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 430, 128454	12.8	1
427	Co-liquefaction of mixed biomass feedstocks for bio-oil production: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 154, 111814	16.2	5
426	Continuous cultivation of microalgae in photobioreactors as a source of renewable energy: Current status and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 154, 111852	16.2	19
425	Elemental loss, enrichment, transformation and life cycle assessment of torrefied corncob. <i>Energy</i> , <b>2022</b> , 242, 123019	7.9	1
424	A novel environmentally friendly nanocomposite aerogel based on the semi-interpenetrating network of polyacrylic acid into Xanthan gum containing hydroxyapatite for efficient removal of methylene blue from wastewater.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 201, 133-142	7.9	1
423	Co-pyrolysis of microalgae and other biomass wastes for the production of high-quality bio-oil: Progress and prospective. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126096	11	5
422	Recent advances in lignocellulosic biomass for biofuels and value-added bioproducts - A critical review. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126195	11	28
421	Progress in thermochemical conversion of aquatic weeds in shellfish aquaculture for biofuel generation: Technical and economic perspectives. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126202	11	5
420	Liquid hot water as sustainable biomass pretreatment technique for bioenergy production: A review. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126207	11	25
419	Smart sustainable biorefineries for lignocellulosic biomass. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126215	11	4
418	Power generation of thermoelectric generator with plate fins for recovering low-temperature waste heat. <i>Applied Energy</i> , <b>2022</b> , 306, 118012	10.7	2
417	Increased aromatics production by co-feeding waste oil sludge to the catalytic pyrolysis of cellulose. <i>Energy</i> , <b>2022</b> , 239, 122331	7.9	3
416	Integrating Taguchi method and artificial neural network for predicting and maximizing biofuel production via torrefaction and pyrolysis. <i>Bioresource Technology</i> , <b>2022</b> , 343, 126140	11	6
415	Thermodegradation characterization of hardwoods and softwoods in torrefaction and transition zone between torrefaction and pyrolysis. <i>Fuel</i> , <b>2022</b> , 310, 122281	7.1	3

4 <sup>14</sup>	Pretreatment, modification and applications of sewage sludge-derived biochar for resource recovery- A review. <i>Chemosphere</i> , <b>2022</b> , 287, 131969	8.4	13
4 <sup>13</sup>	Microwave-assisted gasification of biomass for sustainable and energy-efficient biohydrogen and biosyngas production: A state-of-the-art review. <i>Chemosphere</i> , <b>2022</b> , 287, 132014	8.4	6
4 <sup>12</sup>	Ultra-low PCDD/F emissions and their particle size and mass distribution in a hazardous waste treatment system. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127032	12.8	1
4 <sup>11</sup>	COVID-19 and industrial waste mitigation via thermochemical technologies towards a circular economy: A state-of-the-art review. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127215	12.8	5
4 <sup>10</sup>	Single-step catalytic deoxygenation of palm feedstocks for the production of sustainable bio-jet fuel. <i>Energy</i> , <b>2022</b> , 239, 122017	7.9	5
4 <sup>09</sup>	Removal of methylene blue from wastewater using ternary nanocomposite aerogel systems: Carboxymethyl cellulose grafted by polyacrylic acid and decorated with graphene oxide. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 421, 126752	12.8	19
4 <sup>08</sup>	Highly active iron-promoted hexagonal mesoporous silica (HMS) for deoxygenation of triglycerides to green hydrocarbon-like biofuel. <i>Fuel</i> , <b>2022</b> , 308, 121860	7.1	5
4 <sup>07</sup>	Engineered macroalgal and microalgal adsorbents: Synthesis routes and adsorptive performance on hazardous water contaminants. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 126921	12.8	6
4 <sup>06</sup>	Catalyst-Based Synthesis of 2,5-Dimethylfuran from Carbohydrates as a Sustainable Biofuel Production Route. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 3079-3115	8.3	8
4 <sup>05</sup>	Multiscale Principal Component Analysis-Signed Directed Graph Based Process Monitoring and Fault Diagnosis.. <i>ACS Omega</i> , <b>2022</b> , 7, 9496-9512	3.9	1
4 <sup>04</sup>	Biomass-derived biochar: From production to application in removing heavy metal-contaminated water. <i>Chemical Engineering Research and Design</i> , <b>2022</b> , 160, 704-733	5.5	8
4 <sup>03</sup>	Valorization of animal manure via pyrolysis for bioenergy: A review. <i>Journal of Cleaner Production</i> , <b>2022</b> , 343, 130965	10.3	4
4 <sup>02</sup>	Optimization design by evolutionary computation for minimizing thermal stress of a thermoelectric generator with varied numbers of square pin fins. <i>Applied Energy</i> , <b>2022</b> , 314, 118995	10.7	0
4 <sup>01</sup>	Pyrolysis of marine algae for biochar production for adsorption of Ciprofloxacin from aqueous solutions.. <i>Bioresource Technology</i> , <b>2022</b> , 351, 127043	11	3
4 <sup>00</sup>	Syngas production via chemical looping reforming using methane-based feed and NiO/Al <sub>2</sub> O <sub>3</sub> oxygen carrier. <i>Energy</i> , <b>2022</b> , 250, 123815	7.9	0
399	A review on the visible light active modified photocatalysts for water splitting for hydrogen production. <i>International Journal of Energy Research</i> , <b>2022</b> , 46, 5467-5477	4.5	4
398	Synthesis of Mesoporous Cu-Ni/Al <sub>2</sub> O <sub>4</sub> Catalyst for Hydrogen Production via Hydrothermal Reconstruction Route. <i>Catalysts</i> , <b>2022</b> , 12, 32	4	0
397	Recent technologies in biorefining of macroalgae metabolites and their industrial applications - A circular economy approach.. <i>Bioresource Technology</i> , <b>2022</b> , 127235	11	0

396	Oxidative torrefaction of microalga <i>Nannochloropsis Oceanica</i> activated by potassium carbonate for solid biofuel production.. <i>Environmental Research</i> , <b>2022</b> , 212, 113389	7.9	0
395	Current technologies of biochemical conversion of food waste into biogas production: A review. <i>Fuel</i> , <b>2022</b> , 323, 124321	7.1	1
394	A comprehensive review of thermogravimetric analysis in lignocellulosic and algal biomass gasification. <i>Chemical Engineering Journal</i> , <b>2022</b> , 445, 136730	14.7	2
393	Ionic liquid dissolution utilized for biomass conversion into biofuels, value-added chemicals and advanced materials: A comprehensive review. <i>Chemical Engineering Journal</i> , <b>2022</b> , 445, 136733	14.7	2
392	Biomass torrefaction: An overview of process and technology assessment based on global readiness level. <i>Fuel</i> , <b>2022</b> , 324, 124663	7.1	1
391	One-Step Biodiesel Production from Waste Cooking Oil Using CaO Promoted Activated Carbon Catalyst from <i>Prunus persica</i> Seeds. <i>Catalysts</i> , <b>2022</b> , 12, 592	4	2
390	Upgrading spent battery separator into syngas and hydrocarbons through CO <sub>2</sub> -Assisted thermochemical platform. <i>Energy</i> , <b>2021</b> , 122552	7.9	1
389	Synthesis of 5-hydroxymethylfurfural from glucose, fructose, cellulose and agricultural wastes over sulfur-doped peanut shell catalysts in ionic liquid. <i>Chemosphere</i> , <b>2021</b> , 291, 132829	8.4	2
388	Catalytic microwave torrefaction of microalga <i>Chlorella vulgaris</i> FSP-E with magnesium oxide optimized via taguchi approach: A thermo-energetic analysis.. <i>Chemosphere</i> , <b>2021</b> , 290, 133374	8.4	0
387	Performance evaluation and improvement of thermoelectric generators (TEG): Fin installation and compromise optimization. <i>Energy Conversion and Management</i> , <b>2021</b> , 250, 114858	10.6	8
386	Spent coffee grounds biochar from torrefaction as a potential adsorbent for spilled diesel oil recovery and as an alternative fuel. <i>Energy</i> , <b>2021</b> , 122467	7.9	2
385	Effect of torrefaction on the structure and reactivity of rice straw as well as life cycle assessment of torrefaction process. <i>Energy</i> , <b>2021</b> , 240, 122470	7.9	4
384	Integration of Biomass Torrefaction and Gasification based on Biomass Classification: A Review. <i>Energy Technology</i> , <b>2021</b> , 9, 2001108	3.5	3
383	Identification of Suitable Biomass Torrefaction Operation Envelops for Auto-Thermal Operation. <i>Frontiers in Energy Research</i> , <b>2021</b> , 9,	3.8	3
382	Simultaneous implementation of sludge dewatering and solid biofuel production by microwave torrefaction. <i>Environmental Research</i> , <b>2021</b> , 195, 110775	7.9	8
381	Reaction and hydrogen production phenomena of ethanol steam reforming in a catalytic membrane reactor. <i>Energy</i> , <b>2021</b> , 220, 119737	7.9	6
380	Torrefaction Thermogravimetric Analysis and Kinetics of Sorghum Distilled Residue for Sustainable Fuel Production. <i>Sustainability</i> , <b>2021</b> , 13, 4246	3.6	3
379	Microalgae: The Future Supply House of Biohydrogen and Biogas. <i>Frontiers in Energy Research</i> , <b>2021</b> , 9,	3.8	8

378	Solid biofuel production from spent coffee ground wastes: Process optimisation, characterisation and kinetic studies. <i>Fuel</i> , <b>2021</b> , 292, 120309	7.1	15
377	Geometry optimization and pressure analysis of a proton exchange membrane fuel cell stack. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 16717-16733	6.7	2
376	Engineered biochars from catalytic microwave pyrolysis for reducing heavy metals phytotoxicity and increasing plant growth. <i>Chemosphere</i> , <b>2021</b> , 271, 129808	8.4	15
375	Catalytic level identification of ZSM-5 on biomass pyrolysis and aromatic hydrocarbon formation. <i>Chemosphere</i> , <b>2021</b> , 271, 129510	8.4	12
374	Multistage carbon dioxide compressor efficiency enhancement using waste heat powered absorption chillers. <i>Energy Science and Engineering</i> , <b>2021</b> , 9, 1373-1384	3.4	1
373	An investigation for airflow and deposition of PM contaminated with SAR-CoV-2 virus in healthy and diseased human airway. <i>Environmental Research</i> , <b>2021</b> , 197, 111096	7.9	0
372	Experimental Study on Sulfur Deactivation and Regeneration of Ni-Based Catalyst in Dry Reforming of Biogas. <i>Catalysts</i> , <b>2021</b> , 11, 777	4	2
371	Thermodynamic analysis of integrated adiabatic chemical looping combustion and supercritical CO <sub>2</sub> cycle. <i>Energy Conversion and Management: X</i> , <b>2021</b> , 10, 100078	2.5	3
370	Analysis of microparticle deposition in the human lung by taguchi method and response surface methodology. <i>Environmental Research</i> , <b>2021</b> , 197, 110975	7.9	4
369	Two-step thermodegradation kinetics of cellulose, hemicelluloses, and lignin under isothermal torrefaction analyzed by particle swarm optimization. <i>Energy Conversion and Management</i> , <b>2021</b> , 238, 114116	10.6	16
368	Process system analysis on oil processing facility and economic viability from oil well-to-tank. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1	1.8	1
367	Production of a sustainable fuel from microalgae <i>Chlorella minutissima</i> grown in a 1500L open raceway ponds. <i>Biomass and Bioenergy</i> , <b>2021</b> , 149, 106073	5.3	11
366	Enhanced lignin extraction and optimisation from oil palm biomass using neural network modelling. <i>Fuel</i> , <b>2021</b> , 293, 120485	7.1	18
365	Performance Analysis of a Printed Circuit Heat Exchanger with a Novel Mirror-Symmetric Channel Design. <i>Energies</i> , <b>2021</b> , 14, 4252	3.1	0
364	Optimization and analysis of syngas production from methane and CO <sub>2</sub> via Taguchi approach, response surface methodology (RSM) and analysis of variance (ANOVA). <i>Fuel</i> , <b>2021</b> , 296, 120642	7.1	7
363	Impacts of COVID-19 pandemic on the global energy system and the shift progress to renewable energy: Opportunities, challenges, and policy implications. <i>Energy Policy</i> , <b>2021</b> , 154, 112322	7.2	85
362	Current status of biohydrogen production from lignocellulosic biomass, technical challenges and commercial potential through pyrolysis process. <i>Energy</i> , <b>2021</b> , 226, 120433	7.9	24
361	Reuniting the Biogeochemistry of Algae for a Low-Carbon Circular Bioeconomy. <i>Trends in Plant Science</i> , <b>2021</b> , 26, 729-740	13.1	23

360	Optimization for hydrogen production from methanol partial oxidation over NiCu/Al <sub>2</sub> O <sub>3</sub> catalyst under sprays. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	1
359	Pore volume upgrade of biochar from spent coffee grounds by sodium bicarbonate during torrefaction. <i>Chemosphere</i> , <b>2021</b> , 275, 129999	8.4	5
358	Effects of torrefaction and water washing on the properties and combustion reactivity of various wastes. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 8125-8139	4.5	3
357	Adsorptive removal of cationic methylene blue and anionic Congo red dyes using wet-torrefied microalgal biochar: Equilibrium, kinetic and mechanism modeling. <i>Environmental Pollution</i> , <b>2021</b> , 272, 115986	9.3	65
356	Combustion performance and emissions from torrefied and water washed biomass using a kg-scale burner. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123468	12.8	5
355	Microalgal biosorption of heavy metals: A comprehensive bibliometric review. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123431	12.8	78
354	Sustainable biofuel and bioenergy production from biomass waste residues using microwave-assisted heating: A comprehensive review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126233	14.7	77
353	Agro-industrial residue gasification feasibility in captive power plants: A South-Asian case study. <i>Energy</i> , <b>2021</b> , 214, 118952	7.9	9
352	Reduction of particulate matter and volatile organic compounds in biorefineries: A state-of-the-art review. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123955	12.8	12
351	Pyrolysis kinetics of potassium-impregnated rubberwood analyzed by evolutionary computation. <i>Bioresource Technology</i> , <b>2021</b> , 319, 124145	11	2
350	A state-of-the-art review of biowaste biorefinery. <i>Environmental Pollution</i> , <b>2021</b> , 269, 116149	9.3	14
349	A comprehensive review of hydrogen production from methanol thermochemical conversion for sustainability. <i>Energy</i> , <b>2021</b> , 217, 119384	7.9	38
348	Low-temperature catalytic conversion of alkaline sewage sludge bio-oil to biodiesel: Product characteristics and reaction mechanisms. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 21, 101266	7	3
347	Hydrogen production from partial oxidation and autothermal reforming of methanol from a cold start in sprays. <i>Fuel</i> , <b>2021</b> , 287, 119638	7.1	6
346	Effect of wet torrefaction on pyrolysis kinetics and conversion of microalgae carbohydrates, proteins, and lipids. <i>Energy Conversion and Management</i> , <b>2021</b> , 227, 113609	10.6	15
345	Synergistic interaction and biochar improvement over co-torrefaction of intermediate waste epoxy resins and fir. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 21, 101218	7	4
344	Progress in biomass torrefaction: Principles, applications and challenges. <i>Progress in Energy and Combustion Science</i> , <b>2021</b> , 82, 100887	33.6	147
343	Catalytic pyrolysis of biomass using shape-selective zeolites for bio-oil enhancement <b>2021</b> , 39-60		1

342	<a href="https://www.crossref.org/webDeposit/">https://www.crossref.org/webDeposit/</a> . <i>Aerosol and Air Quality Research</i> , <b>2021</b> , 200624	4.6	2
341	A Review on Data-Driven Learning Approaches for Fault Detection and Diagnosis in Chemical Processes. <i>ChemBioEng Reviews</i> , <b>2021</b> , 8, 239-259	5.2	9
340	Single-Molecule Light-Sheet Microscopy with Local Nanopipette Delivery. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 4092-4099	7.8	4
339	A Molecular Simulation Study of Silica/Polysulfone Mixed Matrix Membrane for Mixed Gas Separation. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
338	Pyrolysis: An effective technique for degradation of COVID-19 medical wastes. <i>Chemosphere</i> , <b>2021</b> , 275, 130092	8.4	43
337	Aerosol deposition and airflow dynamics in healthy and asthmatic human airways during inhalation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 416, 125856	12.8	3
336	Waste Plastics as an Effective Binder for Biochar Pelletization. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 13840-13846	4.1	0
335	Oxidative torrefaction performance of microalga <i>Nannochloropsis Oceanica</i> towards an upgraded microalgal solid biofuel. <i>Journal of Biotechnology</i> , <b>2021</b> , 338, 81-90	3.7	3
334	Energy balance of torrefied microalgal biomass with production upscale approached by life cycle assessment. <i>Journal of Environmental Management</i> , <b>2021</b> , 294, 112992	7.9	1
333	Valorization of sorghum distillery residue to produce bioethanol for pollution mitigation and circular economy. <i>Environmental Pollution</i> , <b>2021</b> , 285, 117196	9.3	5
332	Supercritical water gasification (SCWG) as a potential tool for the valorization of phycoremediation-derived waste algal biomass for biofuel generation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 418, 126278	12.8	11
331	Conversion of bio-jet fuel from palm kernel oil and its blending effect with jet A-1 fuel. <i>Energy Conversion and Management</i> , <b>2021</b> , 243, 114311	10.6	1
330	Comparative indexes, fuel characterization and thermogravimetric- Fourier transform infrared spectrometer-mass spectrogram (TG-FTIR-MS) analysis of microalga <i>Nannochloropsis Oceanica</i> under oxidative and inert torrefaction. <i>Energy</i> , <b>2021</b> , 230, 120824	7.9	5
329	Microplastic degradation as a sustainable concurrent approach for producing biofuel and obliterating hazardous environmental effects: A state-of-the-art review. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 418, 126381	12.8	9
328	Emerging technologies for sustainable production of biohydrogen production from microalgae: A state-of-the-art review of upstream and downstream processes. <i>Bioresource Technology</i> , <b>2021</b> , 342, 126057	11.7	4
327	Green additive to upgrade biochar from spent coffee grounds by torrefaction for pollution mitigation. <i>Environmental Pollution</i> , <b>2021</b> , 285, 117244	9.3	2
326	Efficiency improvement of a vertical-axis wind turbine using a deflector optimized by Taguchi approach with modified additive method. <i>Energy Conversion and Management</i> , <b>2021</b> , 245, 114609	10.6	11
325	Independent parallel pyrolysis kinetics of extracted proteins and lipids as well as model carbohydrates in microalgae. <i>Applied Energy</i> , <b>2021</b> , 300, 117372	10.7	5

324	Utilization of microalgae for bio-jet fuel production in the aviation sector: Challenges and perspective. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 149, 111396	16.2	12
323	Assessment of the emission factors for potentially toxic elements from coal-fired boilers and sintering furnaces in a steel production plant. <i>Science of the Total Environment</i> , <b>2021</b> , 792, 148329	10.2	0
322	Chemical recycling of plastic waste via thermocatalytic routes. <i>Journal of Cleaner Production</i> , <b>2021</b> , 321, 128989	10.3	19
321	Fast hydrolysis of biomass Conversion: A comparative review. <i>Bioresource Technology</i> , <b>2021</b> , 342, 126067	11	6
320	A biorefinery approach for high value-added bioproduct (astaxanthin) from alga <i>Haematococcus</i> sp. and residue pyrolysis for biochar synthesis and metallic iron production from hematite (Fe <sub>2</sub> O <sub>3</sub> ). <i>Fuel</i> , <b>2021</b> , 304, 121150	7.1	2
319	Progress in the torrefaction technology for upgrading oil palm wastes to energy-dense biochar: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 151, 111645	16.2	5
318	Pyrolysis of sewage sludge for sustainable biofuels and value-added biochar production. <i>Journal of Environmental Management</i> , <b>2021</b> , 298, 113450	7.9	16
317	A critical review on second- and third-generation bioethanol production using microwaved-assisted heating (MAH) pretreatment. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 152, 111679	16.2	8
316	Waste furniture gasification using rice husk based char catalysts for enhanced hydrogen generation. <i>Bioresource Technology</i> , <b>2021</b> , 341, 125813	11	4
315	Analysis of methanol synthesis using CO <sub>2</sub> hydrogenation and syngas produced from biogas-based reforming processes. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 130835	14.7	5
314	Redox degrees of iron-based oxygen carriers in cyclic chemical looping combustion using thermodynamic analysis. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 130834	14.7	0
313	Catalytic microwave-assisted torrefaction of sugarcane bagasse with calcium oxide optimized via Taguchi approach: Product characterization and energy analysis. <i>Fuel</i> , <b>2021</b> , 305, 121543	7.1	5
312	Variation of lignocellulosic biomass structure from torrefaction: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 152, 111698	16.2	5
311	Synthesis and regeneration of mesoporous NiCu/Al <sub>2</sub> O <sub>4</sub> catalyst in sub-kilogram-scale for methanol steam reforming reaction. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	3
310	Modelling drying kinetic of oyster mushroom dehydration The optimization of drying conditions for dehydration of <i>Pleurotus</i> species. <i>Materials Science for Energy Technologies</i> , <b>2020</b> , 3, 840-845	5.2	2
309	Performance Comparison of Industrially Produced Formaldehyde Using Two Different Catalysts. <i>Processes</i> , <b>2020</b> , 8, 571	2.9	4
308	Aging and emulsification analyses of hydrothermal liquefaction bio-oil derived from sewage sludge and swine leather residue. <i>Journal of Cleaner Production</i> , <b>2020</b> , 266, 122050	10.3	10
307	Using low carbon footprint high-pressure carbon dioxide in bioconversion of aspen branch waste for sustainable bioethanol production. <i>Bioresource Technology</i> , <b>2020</b> , 313, 123675	11	8



306	Sustainability of the four generations of biofuels: A review. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 9266-9282	4.5	87
305	A review on valorization of oyster mushroom and waste generated in the mushroom cultivation industry. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 400, 123156	12.8	30
304	Geometry design for maximizing output power of segmented skutterudite thermoelectric generator by evolutionary computation. <i>Applied Energy</i> , <b>2020</b> , 274, 115296	10.7	15
303	A Feed-Forward Back Propagation Neural Network Approach to Predict the Life Condition of Crude Oil Pipeline. <i>Processes</i> , <b>2020</b> , 8, 661	2.9	20
302	Assessment of agro-industrial residues for bioenergy potential by investigating thermo-kinetic behavior in a slow pyrolysis process. <i>Fuel</i> , <b>2020</b> , 278, 118259	7.1	37
301	A computational fluid dynamics (CFD) approach of thermoelectric generator (TEG) for power generation. <i>Applied Thermal Engineering</i> , <b>2020</b> , 173, 115203	5.8	20
300	Organic Carbonate Production Utilizing Crude Glycerol Derived as By-Product of Biodiesel Production: A Review. <i>Energies</i> , <b>2020</b> , 13, 1483	3.1	25
299	Kinetics and thermodynamics dataset of iron oxide reduction using torrefied microalgae for chemical looping combustion. <i>Data in Brief</i> , <b>2020</b> , 29, 105261	1.2	3
298	State of art review on conventional and advanced pyrolysis of macroalgae and microalgae for biochar, bio-oil and bio-syngas production. <i>Energy Conversion and Management</i> , <b>2020</b> , 210, 112707	10.6	131
297	Microalgal Torrefaction for Solid Biofuel Production. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 1023-1033	15.1	36
296	Catalyst combination strategy for hydrogen production from methanol partial oxidation. <i>Energy</i> , <b>2020</b> , 206, 118180	7.9	12
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281	Optimization of food waste hydrothermal liquefaction by a two-step process in association with a double analysis. <i>Energy</i> , <b>2020</b> , 199, 117438	7.9	20
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270	Simulation studies on microwave-assisted pyrolysis of biomass for bioenergy production with special attention on waveguide number and location. <i>Energy</i> , <b>2020</b> , 190, 116474	7.9	19
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266	Independent parallel pyrolysis kinetics of cellulose, hemicelluloses and lignin at various heating rates analyzed by evolutionary computation. <i>Energy Conversion and Management</i> , <b>2020</b> , 221, 113165	10.6	31
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253	Ultrasonic assisted oil extraction and biodiesel synthesis of Spent Coffee Ground. <i>Fuel</i> , <b>2020</b> , 261, 116127-116131	7.1	31

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245	Prediction of higher heating values (HHVs) and energy yield during torrefaction via kinetics. <i>Energy Procedia</i> , <b>2019</b> , 158, 111-116	2.3	13
244	Investigation of direct biodiesel production from wet microalgae using definitive screening design. <i>Energy Procedia</i> , <b>2019</b> , 158, 1149-1154	2.3	7
243	Performance comparison of thermoelectric generators using different materials. <i>Energy Procedia</i> , <b>2019</b> , 158, 1388-1393	2.3	5
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240	A comprehensive analysis of food waste derived liquefaction bio-oil properties for industrial application. <i>Applied Energy</i> , <b>2019</b> , 237, 283-291	10.7	64
239	Investigation of reverse ionic diffusion in forward-osmosis-aided dewatering of microalgae: A molecular dynamics study. <i>Bioresource Technology</i> , <b>2019</b> , 279, 181-188	11	14
238	Overview on catalytic deoxygenation for biofuel synthesis using metal oxide supported catalysts. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 112, 834-852	16.2	42
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232	A comprehensive analysis of the performance of thermoelectric generators with constant and variable properties. <i>Applied Energy</i> , <b>2019</b> , 241, 11-24	10.7	22
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228	Thermochemical conversion of microalgal biomass <b>2019</b> , 345-382		2
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226	Torrefaction performance prediction approached by torrefaction severity factor. <i>Fuel</i> , <b>2019</b> , 251, 126-135	7.1	28
225	Sustainability of direct biodiesel synthesis from microalgae biomass: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 107, 59-74	16.2	190
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222	Catalytic thermochemical conversion of biomass for biofuel production: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 113, 109266	16.2	168
221	A comprehensive review of life cycle assessment (LCA) of microalgal and lignocellulosic bioenergy products from thermochemical processes. <i>Bioresource Technology</i> , <b>2019</b> , 291, 121837	11	59
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219	Bioenergy production and metallic iron (Fe) conversion from <i>Botryococcus</i> sp. cultivated in domestic wastewater: Algal biorefinery concept. <i>Energy Conversion and Management</i> , <b>2019</b> , 196, 1326-1334	10.6	11
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199	Hydrogen recovery and CO <sub>2</sub> enrichment in single and dual Pd membrane tube systems. <i>Fuel</i> , <b>2018</b> , 219, 182-195	7.1	5

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187	Density Functional Theory-based modeling and calculations of a polyamide molecular unit for studying forward-osmosis-dewatering of microalgae <b>2018</b> ,		1
186	Simultaneous Extraction and Emulsification of Food Waste Liquefaction Bio-Oil. <i>Energies</i> , <b>2018</b> , 11, 3031-31	3.1	5
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173	Determination of rated wind speed for maximum annual energy production of variable speed wind turbines. <i>Applied Energy</i> , <b>2017</b> , 205, 781-789	10.7	59
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171	Effect of Wet Torrefaction on Thermal Decomposition Behavior of Microalga <i>Chlorella vulgaris</i> ESP-31. <i>Energy Procedia</i> , <b>2017</b> , 105, 206-211	2.3	7
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169	Predictions of biochar production and torrefaction performance from sugarcane bagasse using interpolation and regression analysis. <i>Bioresource Technology</i> , <b>2017</b> , 246, 12-19	11	22
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148	Two-Wavelength Optical Microscope Optical Axis Adjustment by Five Incident Parallel Laser Beams. <i>Lecture Notes in Electrical Engineering</i> , <b>2016</b> , 773-782	0.2	
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