

Jun Xiang

List of Publications by Year in Descending Order

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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.

559
papers

14,466
citations

62
h-index

88
g-index

591
ext. papers

18,321
ext. citations

6.8
avg, IF

7.24
L-index

#	Paper	IF	Citations
559	An Investigation of Rotary Cup Burner Assembly with Three Vehicle-Mounted Cooking Stoves by Numerical Evaluation Method. <i>Processes</i> , 2022 , 10, 186	2.9	0
558	Coupled simulation and deep-learning prediction of combustion and heat transfer processes in supercritical CO ₂ CFB boiler. <i>Advanced Powder Technology</i> , 2022 , 33, 103361	4.6	0
557	A novel sludge pyrolysis and biomass gasification integrated method to enhance hydrogen-rich gas generation. <i>Energy Conversion and Management</i> , 2022 , 254, 115205	10.6	1
556	Pyrolysis reaction mechanism of typical Chinese agriculture and forest waste pellets at high heating rates based on the photo-thermal TGA. <i>Energy</i> , 2022 , 244, 123164	7.9	1
555	Effect of Ni/Al ₂ O ₃ mixing on the coking behavior of bio-oil during its pyrolysis: Further understanding based on the interaction between its components. <i>Fuel</i> , 2022 , 315, 123136	7.1	1
554	Hydrothermal carbonization of cellulose in aqueous phase of bio-oil: The significant impacts on properties of hydrochar. <i>Fuel</i> , 2022 , 315, 123132	7.1	1
553	Correlations of Lewis acidic sites of nickel catalysts with the properties of the coke formed in steam reforming of acetic acid. <i>Journal of the Energy Institute</i> , 2022 , 101, 277-277	5.7	1
552	Comparative study of catalytic and non-catalytic steam reforming of bio-oil: Importance of pyrolysis temperature and its parent biomass particle size during bio-oil production process. <i>Fuel</i> , 2022 , 314, 122746	7.1	1
551	Selective conversion of levulinic acid to gamma-valerolactone over Ni-based catalysts: Impacts of catalyst formulation on sintering of nickel. <i>Chemical Engineering Science</i> , 2022 , 248, 117258	4.4	2
550	Coke formation during the pyrolysis of bio-oil: Further understanding on the evolution of radicals. <i>Applications in Energy and Combustion Science</i> , 2022 , 9, 100050	0.8	1
549	Evolution of char structure during the pyrolysis of biomass pellet: Further understanding on the effects of chars two phases. <i>Fuel</i> , 2022 , 312, 122994	7.1	0
548	Sequential pyrolysis of coal and biomass: Influence of coal-derived volatiles on property of biochar. <i>Applications in Energy and Combustion Science</i> , 2022 , 9, 100052	0.8	0
547	Steam reforming of acetone and isopropanol: Investigation of correlation of ketone and alcohol functional groups with properties of coke. <i>Journal of the Energy Institute</i> , 2022 , 101, 32-44	5.7	1
546	Analysis of ammonium bisulfate/sulfate generation and deposition characteristics as the by-product of SCR in coal-fired flue gas. <i>Fuel</i> , 2022 , 313, 122790	7.1	1
545	Effects of vapor-/solid-phase interactions among cellulose, hemicellulose and lignin on the formation of heavy components in bio-oil during pyrolysis. <i>Fuel Processing Technology</i> , 2022 , 225, 107042	7.2	4
544	Economic analysis and cost modeling of supercritical CO ₂ coal-fired boiler based on global optimization. <i>Energy</i> , 2022 , 239, 122311	7.9	1
543	Insights into the interaction between NO and char(N) containing different functional forms: Mechanistic, thermodynamic and kinetic studies. <i>Combustion and Flame</i> , 2022 , 237, 111823	5.3	3

542	Evolution of coke structures during electrochemical upgrading of bio-oil. <i>Fuel Processing Technology</i> , 2022 , 225, 107036	7.2	3
541	Highly efficient NH ₃ -SCR of NO over MnFeW/Ti catalyst at low temperature: SO ₂ tolerance and reaction mechanism. <i>Fuel</i> , 2022 , 307, 121805	7.1	4
540	Effects of interactions between organic solid waste components on the formation of heavy components in oil during pyrolysis. <i>Fuel Processing Technology</i> , 2022 , 225, 107041	7.2	1
539	Steam reforming of sugar and its derivatives: Functionality dictates thermal properties and morphologies of coke. <i>Fuel</i> , 2022 , 307, 121798	7.1	1
538	Catalytic pyrolysis of pine wood over char-supported Fe: Bio-oil upgrading and catalyst regeneration by CO ₂ /H ₂ O. <i>Fuel</i> , 2022 , 307, 121778	7.1	5
537	Synergistic Removal Effects of Ultralow Emission Air Pollution Control Devices on Trace Elements in a Coal-Fired Power Plant. <i>Energy & Fuels</i> , 2022 , 36, 2474-2487	4.1	
536	Artificial Coal: Facile and Green Production Method via Low-Temperature Hydrothermal Carbonization of Lignocellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 3335-3345	8.3	0
535	Involvement of the organics in aqueous phase of bio-oil in hydrothermal carbonization of lignin.. <i>Bioresource Technology</i> , 2022 , 127055	11	1
534	Modification of nickel-based catalyst with transition metals to tailor reaction intermediates and property of coke in steam reforming of acetic acid. <i>Fuel</i> , 2022 , 318, 123698	7.1	2
533	Pyrolysis of cellulose: Correlation of hydrophilicity with evolution of functionality of biochar.. <i>Science of the Total Environment</i> , 2022 , 825, 153959	10.2	0
532	A state of the art review on electrochemical technique for the remediation of pharmaceuticals containing wastewater.. <i>Environmental Research</i> , 2022 , 210, 112975	7.9	1
531	Microscopic mechanism and kinetics of NO heterogeneous reduction on char surface: A density functional theory study. <i>Energy</i> , 2022 , 250, 123861	7.9	0
530	Effects of inorganic sodium on the combustion characteristics of Zhundong coal with fast-heating rate. <i>Fuel</i> , 2022 , 319, 123801	7.1	3
529	Atom-dispersed copper and nano-palladium in the boron-carbon-nitrogen matrix cooperate to realize the efficient purification of nitrate wastewater and the electrochemical synthesis of ammonia.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128909	12.8	0
528	Pyrolysis characteristics and kinetic study of coal in a novel concentrating photothermal thermogravimetric analyzer: Effect of heating rate. <i>Fuel</i> , 2022 , 322, 124218	7.1	0
527	Roles of inorganic potassium in the evolution of heavy volatile during cellulose steam reforming. <i>Fuel</i> , 2022 , 321, 124099	7.1	0
526	N migration and transformation during the co-combustion of sewage sludge and coal slime.. <i>Waste Management</i> , 2022 , 145, 83-91	8.6	0
525	Pyrolysis of the food waste collected from catering and households under different temperatures: Assessing the evolution of char structure and bio-oil composition. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022 , 164, 105543	6	1

524	Understanding evolution of the products and emissions during chemical activation of furfural residue with varied potassium salts. <i>Journal of Cleaner Production</i> , 2022 , 357, 131936	10.3	0
523	Impacts of temperature on hydrophilicity/functionalities of char and evolution of bio-oil/gas in pyrolysis of pig manure. <i>Fuel</i> , 2022 , 323, 124330	7.1	1
522	Activation of waste paper: Influence of varied chemical agents on product properties.. <i>Waste Management</i> , 2022 , 146, 94-105	8.6	1
521	Online characterization of pyrolysis products and kinetics study for the pyrolysis of a coal. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 160, 105376	6	0
520	Production of methyl levulinate from cellulose over cobalt disulfide: The importance of the crystal facet (111). <i>Bioresource Technology</i> , 2021 , 347, 126436	11	0
519	Pyrolysis of waste surgical masks into liquid fuel and its life-cycle assessment.. <i>Bioresource Technology</i> , 2021 , 126582	11	11
518	Raman Spectroscopy as a Versatile Tool for Investigating Thermochemical Processing of Coal, Biomass, and Wastes: Recent Advances and Future Perspectives. <i>Energy & Fuels</i> , 2021 , 35, 2870-2913	4.1	12
517	The effect of carbon structure in chars on Fe migration and its catalytic activity for benzyl phenyl ether decomposition. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 154, 105008	6	3
516	Cross-interaction of volatiles from co-pyrolysis of lignin with pig manure and their effects on properties of the resulting biochar. <i>Biochar</i> , 2021 , 3, 391-405	10	1
515	Interaction of the reaction intermediates in co-reforming of acetic acid and ethanol impacts coke properties. <i>Molecular Catalysis</i> , 2021 , 504, 111461	3.3	
514	Biochar catalyzing polymerization of the volatiles from pyrolysis of poplar wood. <i>International Journal of Energy Research</i> , 2021 , 45, 13936-13951	4.5	3
513	Impacts of residence time on transformation of reaction intermediates and coking behaviors of acetic acid during steam reforming. <i>Journal of the Energy Institute</i> , 2021 , 95, 101-119	5.7	9
512	Waste tire heat treatment to prepare sulfur self-doped char via pyrolysis and KFeO-assisted activation methods. <i>Waste Management</i> , 2021 , 125, 145-153	8.6	4
511	MgAl-LDH/LDO-Catalyzed Hydrothermal Deoxygenation of Microalgae for Low-Oxygen Biofuel Production. <i>ACS ES&T Engineering</i> , 2021 , 1, 989-999		2
510	Tuning the Microenvironment in Gas-Diffusion Electrodes Enables High-Rate CO ₂ Electrolysis to Formate. <i>ACS Energy Letters</i> , 2021 , 6, 1694-1702	20.1	32
509	Structural Characterization and Molecular Simulation of Baoqing Lignite. <i>ACS Omega</i> , 2021 , 6, 10281-10287	3.7	0
508	Screening Transition Metals (Mn, Fe, Co, and Cu) Promoted Ni-Based CO ₂ Methanation Bimetal Catalysts with Advanced Low-Temperature Activities. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 8056-8072	3.9	3
507	Developing micro-Raman spectroscopy for char structure characterization in the scale of micro- and bulk: A case study of Zhundong coal pyrolysis. <i>Fuel</i> , 2021 , 291, 120168	7.1	5

506	Pore diameters of Ni/ZrO ₂ catalysts affect properties of the coke in steam reforming of acetic acid. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	5
505	Size-Controlled Synthesis of Pd Nanocatalysts on Defect-Engineered CeO for CO Hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24957-24965	9.5	9
504	Insights into evolution mechanism of PAHs in coal thermal conversion: A combined experimental and DFT study. <i>Energy</i> , 2021 , 222, 119970	7.9	4
503	Hydrogenation of biomass derivatives over Ni/clay catalyst: significant impacts of the treatment of clay with NaOH on the reaction network. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 2569-2578	3.5	2
502	Steam reforming of sugars: Roles of hydroxyl group and carbonyl group in coke formation. <i>Fuel</i> , 2021 , 292, 120282	7.1	7
501	Switching production of γ -valerolactone and 1,4-pentanediol from ethyl levulinate via tailoring alkaline sites of CuMg catalyst and hydrogen solubility in reaction medium. <i>Molecular Catalysis</i> , 2021 , 510, 111680	3.3	2
500	Effects of CO ₂ and H ₂ O on oxy-fuel combustion characteristics and structural evolutions of Zhundong coal pellet at fast heating rate. <i>Fuel</i> , 2021 , 294, 120525	7.1	3
499	Effect of Ce modification on desulfurization performance of regenerated sorbent for high temperature H ₂ S removal from coal gas. <i>Fuel</i> , 2021 , 293, 120463	7.1	2
498	An insight into the OPAHs and SPAHs formation mechanisms during alkaline lignin pyrolysis at different temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 156, 105104	6	4
497	Selective hydrogenation of furfural and its derivative over bimetallic NiFe-based catalysts: Understanding the synergy between Ni sites and NiBe alloy. <i>Renewable Energy</i> , 2021 , 170, 1114-1128	8.1	12
496	Co-presence of hydrophilic and hydrophobic sites in Ni/biochar catalyst for enhancing the hydrogenation activity. <i>Fuel</i> , 2021 , 293, 120426	7.1	3
495	Roles of dehydration conditioners on the formation of apatite phosphorus during the pyrolysis of various sludge. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105248	6.8	2
494	Roles of moisture and cyclic loading in microstructures and their effects on mechanical properties for typical Chinese bituminous coals. <i>Fuel</i> , 2021 , 293, 120408	7.1	5
493	Cooperation between hydrogenation and acidic sites in Cu-based catalyst for selective conversion of furfural to γ -valerolactone. <i>Fuel</i> , 2021 , 293, 120457	7.1	16
492	A Zeolitic-Imidazole Framework-Derived Trifunctional Electrocatalyst for Hydrazine Fuel Cells. <i>ACS Nano</i> , 2021 , 15, 10286-10295	16.7	8
491	Selective Conversion of Furfural into Diols over Co-Based Catalysts: Importance of the Coordination of Hydrogenation Sites and Basic Sites. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 10393-10406	3.9	1
490	Temporal and spatial evolution of biochar chemical structure during biomass pellet pyrolysis from the insights of micro-Raman spectroscopy. <i>Fuel Processing Technology</i> , 2021 , 218, 106839	7.2	5
489	Cross-polymerization between the model furans and phenolics in bio-oil with acid or alkaline catalysts. <i>Green Energy and Environment</i> , 2021 , 6, 138-149	5.7	7

488	Competition between acidic sites and hydrogenation sites in Cu/ZrO ₂ catalysts with different crystal phases for conversion of biomass-derived organics. <i>Green Energy and Environment</i> , 2021 , 6, 557-566	5.7	15
487	Ignition of large size coal in a gas-phase temperature adjustable concentrating photothermal reactor: The influence of volumetric reactions. <i>Fuel Processing Technology</i> , 2021 , 213, 106642	7.2	2
486	Comprehensive study on co-combustion behavior of pelletized coal-biomass mixtures in a concentrating photothermal reactor. <i>Fuel Processing Technology</i> , 2021 , 211, 106596	7.2	17
485	Pyrolysis of cellulose: Evolution of functionalities and structure of bio-char versus temperature. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 135, 110416	16.2	28
484	Synergetic effects of hydrogenation and acidic sites in phosphorus-modified nickel catalysts for the selective conversion of furfural to cyclopentanone. <i>Catalysis Science and Technology</i> , 2021 , 11, 575-593	5.5	9
483	Effect of temperature on Shenfu coal pyrolysis process related to its chemical structure transformation. <i>Fuel Processing Technology</i> , 2021 , 213, 106662	7.2	9
482	Effects of AAEMs on formation of heavy components in bio-oil during pyrolysis at various temperatures and heating rates. <i>Fuel Processing Technology</i> , 2021 , 213, 106690	7.2	16
481	Conversion and transformation of N species during pyrolysis of wood-based panels: A review. <i>Environmental Pollution</i> , 2021 , 270, 116120	9.3	16
480	Simultaneous removal of NO and Hg ⁰ from flue gas over MnSmCo/Ti catalyst at low temperature. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 5331-5338	5.9	2
479	Volatile-char interactions during biomass pyrolysis: Effect of char preparation temperature. <i>Energy</i> , 2021 , 215, 119189	7.9	10
478	Insight into the catalytic performance and NH ₃ adsorption under high concentration of CO ₂ and/or H ₂ O conditions on selective catalytic reduction of NO by NH ₃ over V ₂ O ₅ -WO ₃ /TiO ₂ catalyst. <i>Fuel</i> , 2021 , 286, 119478	7.1	7
477	Synergy of surface fluorine and oxygen vacancy of TiO ₂ nanosheets for O ₂ activation in selective photocatalytic organic transformations. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1593-1603	7.1	2
476	Steam synergic effect on oxygen carrier performance and WGS promotion ability of iron-oxides. <i>Energy</i> , 2021 , 215, 119117	7.9	1
475	Comprehensive study on intrinsic combustion behavior of non-premixed coal-biomass pellet at rapid heating rate. <i>Fuel</i> , 2021 , 287, 119496	7.1	5
474	Progress of using biochar as a catalyst in thermal conversion of biomass. <i>Reviews in Chemical Engineering</i> , 2021 , 37, 229-258	5	8
473	Enhancing carbon dioxide gas-diffusion electrolysis by creating a hydrophobic catalyst microenvironment. <i>Nature Communications</i> , 2021 , 12, 136	17.4	82
472	Reductive amination of bio-based 2-hydroxytetrahydropyran to 5-Amino-1-pentanol over nano-NiAl ₂ O ₃ catalysts. <i>New Journal of Chemistry</i> , 2021 , 45, 4236-4245	3.6	1
471	Robust Anode-Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO Electrolysis at Ultrahigh Current Densities. <i>Small</i> , 2021 , 17, e2007211	11	5

470	Insight into the Mechanism of Glycerol Dehydration and Subsequent Pyridine Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3095-3103	8.3	6
469	In Situ Electrochemical Fabrication of Ultrasmall Ru-Based Nanoparticles for Robust NH Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8488-8496	9.5	1
468	Availability of steam impacts coke properties in steam reforming of acetic acid. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 7195-7210	6.7	1
467	Engineered Polymeric Carbon Nitride Additive for Energy Storage Materials: A Review. <i>Advanced Functional Materials</i> , 2021 , 31, 2102300	15.6	6
466	Sequence of Ni/SiO ₂ and Cu/SiO ₂ in dual catalyst bed significantly impacts coke properties in glycerol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 26367-26380	6.7	2
465	Fates of heavy organics of bio-oil in hydrotreatment: The key challenge in the way from biomass to biofuel. <i>Science of the Total Environment</i> , 2021 , 778, 146321	10.2	5
464	Magnetically separable NiFe ₂ O ₄ /Ag ₃ VO ₄ /Ag ₂ VO ₂ PO ₄ direct Z-scheme heterostructure with enhanced visible-light photoactivity. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 2976-2985	3.5	8
463	Catalytic pyrolysis of polyethylene terephthalate over zeolite catalyst: Characteristics of coke and the products. <i>International Journal of Energy Research</i> , 2021 , 45, 19028	4.5	4
462	Pyrolysis of soybean residue: Understanding characteristics of the products. <i>Renewable Energy</i> , 2021 , 174, 487-500	8.1	5
461	Pyrolysis of flaxseed residue: Exploration of characteristics of the biochar and bio-oil products. <i>Journal of the Energy Institute</i> , 2021 , 97, 1-12	5.7	9
460	Ionic liquid coupled with nickel salt for enhancing the hydro-liquefaction efficiency of the major biomass components. <i>Renewable Energy</i> , 2021 , 175, 296-306	8.1	2
459	Waste Tire Heat Treatment to Prepare Sulfur Self-Doped Char: Operando Insight into Activation Mechanisms Based on the Char Structures Evolution. <i>Processes</i> , 2021 , 9, 1622	2.9	0
458	Co-hydrothermal carbonization of swine and chicken manure: Influence of cross-interaction on hydrochar and liquid characteristics. <i>Science of the Total Environment</i> , 2021 , 786, 147381	10.2	9
457	Sulfated ordinary clay for acid-catalyzed conversion of biomass derivatives: Impacts of abundance and types of acidic sites on catalytic performance. <i>Journal of Solid State Chemistry</i> , 2021 , 301, 122302	3.3	1
456	Exploration of the HO Oxidation Process and Characteristic Evaluation of Humic Acids from Two Typical Lignites. <i>ACS Omega</i> , 2021 , 6, 24051-24061	3.9	2
455	Monolayer Iridium Nanoparticles Coated TiO ₂ Core-Shell Architecture as Efficient Oxygen Evolution Reaction Electrocatalyst. <i>ChemistrySelect</i> , 2021 , 6, 9134-9138	1.8	
454	Effects of Parent Coal Properties on the Pyrolytic Char Chemical Structure: Insights from Micro-Raman Spectroscopy Based on 32 Kinds of Chinese Coals. <i>Processes</i> , 2021 , 9, 1575	2.9	
453	Experimental and DFT research on role of sodium in NO reduction on char surface under H ₂ O/Ar atmosphere. <i>Fuel</i> , 2021 , 302, 121105	7.1	5

452	Steam reforming of alcohols and carboxylic acids: Importance of carboxyl and alcoholic hydroxyl groups on coke properties. <i>Journal of the Energy Institute</i> , 2021 , 98, 85-97	5.7	4
451	Decomposition of benzyl phenyl ether over char-supported Ni: The effect of char structures. <i>Fuel Processing Technology</i> , 2021 , 221, 106941	7.2	4
450	Co-hydrothermal carbonization of swine manure and cellulose: Influence of mutual interaction of intermediates on properties of the products. <i>Science of the Total Environment</i> , 2021 , 791, 148134	10.2	3
449	Roles of calcium oxide on the evolution of substituted polycyclic aromatic hydrocarbons released from sewage sludge pyrolysis. <i>Journal of Cleaner Production</i> , 2021 , 317, 128324	10.3	5
448	Hydrogen-bonded frameworks crystals-assisted synthesis of flower-like carbon materials with penetrable meso/macropores from heavy fraction of bio-oil for Zn-ion hybrid supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021 , 600, 681-690	9.3	5
447	Exploring the influence of nickel precursors on constructing efficient Ni-based CO ₂ methanation catalysts assisted with in-situ technologies. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120486	21.8	7
446	Experimental and numerical modelling of solid and hollow biomass pellets high-temperature rapid oxy-steam combustion: The effect of integrated CO ₂ /H ₂ O concentration. <i>Fuel</i> , 2021 , 303, 121249	7.1	3
445	Polymerization of sugars/furan model compounds and bio-oil during the acid-catalyzed conversion \square review. <i>Fuel Processing Technology</i> , 2021 , 222, 106958	7.2	4
444	Steam reforming of n-hexane and toluene: Understanding impacts of structural difference of aliphatic and aromatic hydrocarbons on their coking behaviours. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106383	6.8	1
443	Coke formation and its impacts during electrochemical upgrading of bio-oil. <i>Fuel</i> , 2021 , 306, 121664	7.1	1
442	In situ characterization of functional groups of biochar in pyrolysis of cellulose. <i>Science of the Total Environment</i> , 2021 , 799, 149354	10.2	8
441	Study on scale-up characteristics in supercritical CO ₂ circulating fluidized bed boiler by 3D CFD simulation. <i>Powder Technology</i> , 2021 , 394, 103-119	5.2	2
440	Co-pyrolysis of swine manure and pinewood sawdust: Evidence of cross-interaction of the volatiles and profound impacts on product characteristics. <i>Renewable Energy</i> , 2021 , 179, 1370-1384	8.1	3
439	Synthesis of ZSM-5 zeolites from biomass power plant ash for removal of ionic dyes from aqueous solution: equilibrium isotherm, kinetic and thermodynamic analysis.. <i>RSC Advances</i> , 2021 , 11, 22365-22375	7.7	2
438	A highly active CH ₄ catalyst correlated with solid oxide fuel cell anode performance. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5067-5074	13	5
437	Comprehensive study on the effect of CO ₂ on coal pyrolysis at fast heating rate. <i>Energy Reports</i> , 2021 , 7, 1369-1378	4.6	0
436	A novel integrated pyrolysis-gasification technology for improving quality of bio-gases from multisource solid wastes. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 615, 012063	0.3	
435	N Evolution and Physiochemical Structure Changes in Chars during Co-Pyrolysis: Effects of Abundance of Glucose in Fiberboard. <i>Energies</i> , 2020 , 13, 5105	3.1	2

434	Formation of highly graphitic char derived from phenolic resin carbonization by Ni-Zn-B alloy. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 22639-22647	5.1	4
433	Benign-by-design N-doped carbonaceous materials obtained from the hydrothermal carbonization of sewage sludge for supercapacitor applications. <i>Green Chemistry</i> , 2020 , 22, 3885-3895	10	39
432	A new method for removal of nitrogen in sewage sludge-derived hydrochar with hydrotalcite as the catalyst. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122833	12.8	27
431	Innovative system configuration analysis and design principle study for different capacity supercritical carbon dioxide coal-fired power plant. <i>Applied Thermal Engineering</i> , 2020 , 174, 115298	5.8	10
430	Raman spectroscopy of biochar from the pyrolysis of three typical Chinese biomasses: A novel method for rapidly evaluating the biochar property. <i>Energy</i> , 2020 , 202, 117644	7.9	31
429	Solidification and Leaching Behaviors of V and As in a Spent Catalyst-Containing Concrete. <i>Energy & Fuels</i> , 2020 , 34, 7209-7217	4.1	2
428	Evolution of the functional groups/structures of biochar and heteroatoms during the pyrolysis of seaweed. <i>Algal Research</i> , 2020 , 48, 101900	5	22
427	Titanium nitride nanoparticle embedded membrane for photothermal membrane distillation. <i>Chemosphere</i> , 2020 , 256, 127053	8.4	17
426	Different reaction behaviours of light or heavy density polyethylene during the pyrolysis with biochar as the catalyst. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123075	12.8	37
425	Cross-polymerisation between the model furans and carbohydrates in bio-oil with acid or alkaline catalysts. <i>Journal of the Energy Institute</i> , 2020 , 93, 1678-1689	5.7	12
424	Coke Formation during Thermal Treatment of Bio-oil. <i>Energy & Fuels</i> , 2020 , 34, 7863-7914	4.1	64
423	Steam reforming of acetic acid and guaiacol over Ni/Attapulgite catalyst: Tailoring pore structure of the catalyst with KOH activation for enhancing the resistivity towards coking. <i>Molecular Catalysis</i> , 2020 , 493, 111051	3.3	7
422	Impacts of metal loading in Ni/attapulgite on distribution of the alkalinity sites and reaction intermediates in CO ₂ methanation reaction. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16153-16160	6.7	5
421	Experimental study and mechanism analysis of NO formation during volatile-N model compounds combustion in H ₂ O/CO ₂ atmosphere. <i>Fuel</i> , 2020 , 273, 117722	7.1	9
420	Constructing highly dispersed Ni based catalysts supported on fibrous silica nanosphere for low-temperature CO ₂ methanation. <i>Fuel</i> , 2020 , 278, 118333	7.1	20
419	Steam reforming of acetic acid over Ni/biochar catalyst treated with HNO ₃ : Impacts of the treatment on surface properties and catalytic behaviors. <i>Fuel</i> , 2020 , 278, 118341	7.1	18
418	Evidence for cross-polymerization between the biomass-derived furans and phenolics. <i>Renewable Energy</i> , 2020 , 154, 517-531	8.1	11
417	A CTAB-mediated antisolvent vapor route to shale-like CsPbBr ₃ microplates showing an eminent photoluminescence. <i>RSC Advances</i> , 2020 , 10, 10023-10029	3.7	2

- 416 Production of bio-fuel from plant oil asphalt via pyrolysis. *Journal of the Energy Institute*, **2020**, 93, 1763-1772 4
- 415 Efficient Synthesis of 5-Amino-1-pentanol from Biomass-Derived Dihydropyran over Hydrotalcite-Based NiMg₃AlO_x Catalysts. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 6352-6362 8.3 5
- 414 Investigation into Properties of Carbohydrate Polymers Formed from Acid-Catalyzed Conversion of Sugar Monomers/Oligomers over Brønsted Acid Catalysts. *Energy Technology*, **2020**, 8, 1901476 3.5 5
- 413 Minireview on Bio-Oil Upgrading via Electrocatalytic Hydrogenation: Connecting Biofuel Production with Renewable Power. *Energy & Fuels*, **2020**, 34, 7915-7928 4.1 24
- 412 Roles of furfural during the thermal treatment of bio-oil at low temperatures. *Journal of Energy Chemistry*, **2020**, 50, 85-95 12 16
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101	Catalytic steam reforming of cellulose-derived compounds using a char-supported iron catalyst. <i>Fuel Processing Technology</i> , 2013 , 116, 234-240	7.2	54
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- 1 Hydrothermal treatment of furfural and sugar monomers and oligomers: a model-compound approach to probe the cross-polymerization reactions in heating bio-oil. *Biomass Conversion and Biorefinery*,1 2,3