# Karnowo

## List of Publications by Citations



| 69 | 1,103 | 20 | 31 |
|---|---|---|---|
| papers | citations | h-index | g-index |
| 76 | 1,708 | 6.5 | 4.97 |
| ext. papers | ext. citations | avg, IF | L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 69 | Effects of volatilechar interactions on the evolution of char structure during the gasification of Victorian brown coal in steam. *Fuel*, **2011**, 90, 1529-1535 | 7.1 | 124 |
| 68 | Coke Formation during Thermal Treatment of Bio-oil. *Energy & Fuels*, **2020**, 34, 7863-7914 | 4.1 | 64 |
| 67 | Copper-based catalysts with tunable acidic and basic sites for the selective conversion of levulinic acid/ester to valerolactone or 1,4-pentanediol. *Green Chemistry*, **2019**, 21, 4499-4511 | 10 | 63 |
| 66 | The catalytic reforming of tar from pyrolysis and gasification of brown coal: Effects of parental carbon materials on the performance of char catalysts. *Fuel Processing Technology*, **2018**, 174, 142-148 | 7.2 | 52 |
| 65 | Evolution of the functionalities and structures of biochar in pyrolysis of poplar in a wide temperature range. *Bioresource Technology*, **2020**, 304, 123002 | 11 | 50 |
| 64 | Mini-Review on Char Catalysts for Tar Reforming during Biomass Gasification: The Importance of Char Structure. *Energy & Fuels*, **2020**, 34, 1219-1229 | 4.1 | 50 |
| 63 | Pyrolysis of palm kernel shell with internal recycling of heavy oil. *Bioresource Technology*, **2019**, 272, 77-82 | 11 | 44 |
| 62 | Benign-by-design N-doped carbonaceous materials obtained from the hydrothermal carbonization of sewage sludge for supercapacitor applications. *Green Chemistry*, **2020**, 22, 3885-3895 | 10 | 39 |
| 61 | Fundamental Advances in Biomass Autothermal/Oxidative Pyrolysis: A Review. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 11888-11905 | 8.3 | 37 |
| 60 | Balanced distribution of Brsted acidic sites and Lewis acidic sites for highly selective conversion of xylose into levulinic acid/ester over Zr-beta catalysts. *Green Chemistry*, **2019**, 21, 6634-6645 | 10 | 36 |
| 59 | Leaching of Alkali and Alkaline Earth Metallic Species from Rice Husk with Bio-oil from Its Pyrolysis. *Energy & Fuels*, **2014**, 28, 6459-6466 | 4.1 | 33 |
| 58 | Kinetics and Mechanism of Steam Gasification of Char from Hydrothermally Treated Woody Biomass. *Energy & Fuels*, **2014**, 28, 7133-7139 | 4.1 | 32 |
| 57 | Characteristics and mechanisms of phosphorous adsorption by rape straw-derived biochar functionalized with calcium from eggshell. *Bioresource Technology*, **2020**, 318, 124063 | 11 | 28 |
| 56 | Volatile-char interactions during biomass pyrolysis: Understanding the potential origin of char activity. *Bioresource Technology*, **2020**, 316, 123938 | 11 | 28 |
| 55 | A new method for removal of nitrogen in sewage sludge-derived hydrochar with hydrotalcite as the catalyst. *Journal of Hazardous Materials*, **2020**, 398, 122833 | 12.8 | 27 |
| 54 | Cross-Polymerization between the Typical Sugars and Phenolic Monomers in Bio-Oil: A Model Compounds Study. *Energy & Fuels*, **2019**, 33, 7480-7490 | 4.1 | 24 |
| 53 | Importance of Magnesium in Cu-Based Catalysts for Selective Conversion of Biomass-Derived Furan Compounds to Diols. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5217-5228 | 8.3 | 23 |

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| 52 | Cross-interaction during Co-gasification of wood, weed, plastic, tire and carton. *Journal of Environmental Management*, **2019**, 250, 109467 | 7.9 | 23 |
| 51 | Impacts of temperature on evolution of char structure during pyrolysis of lignin. *Science of the Total Environment*, **2020**, 699, 134381 | 10.2 | 23 |
| 50 | Application of Biochar Derived From Pyrolysis of Waste Fiberboard on Tetracycline Adsorption in Aqueous Solution. *Frontiers in Chemistry*, **2019**, 7, 943 | 5 | 20 |
| 49 | Volatile-char interactions during biomass pyrolysis: Cleavage of C-C bond in a β-5 lignin model dimer by amino-modified graphitized carbon nanotube. *Bioresource Technology*, **2020**, 307, 123192 | 11 | 19 |
| 48 | A Review on Biomass Gasification: Effect of Main Parameters on Char Generation and Reaction. *Energy & Fuels*, **2020**, 34, 13438-13455 | 4.1 | 17 |
| 47 | Progress of the development of reactors for pyrolysis of municipal waste. *Sustainable Energy and Fuels*, **2020**, 4, 5885-5915 | 5.8 | 16 |
| 46 | Conversion and transformation of N species during pyrolysis of wood-based panels: A review. *Environmental Pollution*, **2021**, 270, 116120 | 9.3 | 16 |
| 45 | Preparation of Coke from Hydrothermally Treated Biomass in Sequence of Hot Briquetting and Carbonization. *ISIJ International*, **2014**, 54, 2461-2469 | 1.7 | 13 |
| 44 | Volatile-char interactions during biomass pyrolysis: Contribution of amino group on graphitized carbon nanotube to xylose evolution based on experimental and theoretical studies. *Fuel*, **2020**, 282, 118921 | 7.1 | 12 |
| 43 | Sulfated TiO2 nanosheets catalyzing conversion of biomass derivatives: influences of the sulfation on distribution of Brønsted and Lewis acidic sites. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 1337-1347 | 3.5 | 12 |
| 42 | Preparation of CaO-containing carbon pellet from recycling of carbide slag: Effects of temperature and HPO. *Waste Management*, **2019**, 84, 64-73 | 8.6 | 12 |
| 41 | Nanofibers and amorphous Ni/Al2O3 catalysts effect of steric hindrance on hydrogenation performance. *Catalysis Science and Technology*, **2019**, 9, 4510-4514 | 5.5 | 11 |
| 40 | Modification of Reactivity and Strength of Formed Coke from Victorian Lignite by Leaching of Metallic Species. *ISIJ International*, **2015**, 55, 765-774 | 1.7 | 11 |
| 39 | Changes in Biochar Functional Groups and Its Reactivity after Volatile-Char Interactions during Biomass Pyrolysis. *Energy & Fuels*, **2020**, 34, 14291-14299 | 4.1 | 11 |
| 38 | Conversion of monosaccharides into levulinic acid/esters: impacts of metal sulfate addition and the reaction medium. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 3676-3686 | 3.5 | 10 |
| 37 | Synergetic effects of hydrogenation and acidic sites in phosphorus-modified nickel catalysts for the selective conversion of furfural to cyclopentanone. *Catalysis Science and Technology*, **2021**, 11, 575-593 | 5.5 | 9 |
| 36 | Co-hydrothermal carbonization of swine and chicken manure: Influence of cross-interaction on hydrochar and liquid characteristics. *Science of the Total Environment*, **2021**, 786, 147381 | 10.2 | 9 |
| 35 | Impacts of Solvents on the Stability of the Biomass-Derived Sugars and Furans. *Energy & Fuels*, **2020**, 34, 3250-3261 | 4.1 | 8 |

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| 34 | In situ characterization of functional groups of biochar in pyrolysis of cellulose. *Science of the Total Environment*, **2021**, 799, 149354 | 10.2 | 8 |
| 33 | Coordination of Acidic Deep Eutectic Solvent�Chromium Trichloride Catalytic System for Efficient Synthesis of Fructose to 5-Hydroxymethylfurfual. *Industrial & Engineering Chemistry Research*, **2020**, 59, 17554-17563 | 3.9 | 7 |
| 32 | Investigation into Properties of Carbohydrate Polymers Formed from Acid-Catalyzed Conversion of Sugar Monomers/Oligomers over Br�sted Acid Catalysts. *Energy Technology*, **2020**, 8, 1901476 | 3.5 | 5 |
| 31 | Pyrolysis of cellulose with co-feeding of formic or acetic acid. *Cellulose*, **2020**, 27, 4909-4929 | 5.5 | 5 |
| 30 | Conversion of Cellulose to Levulinic Acid/Ester over an Acid Catalyst: Impacts of Dispersion of Hydrogen Ions on Polymerization Reactions. *Energy & Fuels*, **2019**, 33, 11187-11199 | 4.1 | 5 |
| 29 | Effects of calcium on the evolution of nitrogen during pyrolysis of a typical low rank coal. *International Journal of Coal Science and Technology*, **2020**, 7, 397-404 | 4.5 | 5 |
| 28 | Clay as support for copper catalysts for the hydrogenation of furfural and phenolics. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 1400-1411 | 3.5 | 5 |
| 27 | Integrated Leaching and Thermochemical Technologies for Producing High-Value Products from Rice Husk: Leaching of Rice Husk with the Aqueous Phases of Bioliquids. *Energies*, **2020**, 13, 6033 | 3.1 | 5 |
| 26 | Effects of Glucose on Nitrogen Retention and Transformation during Copyrolysis with Fiberboard Waste. *Energy & Fuels*, **2020**, 34, 11083-11090 | 4.1 | 5 |
| 25 | Fates of heavy organics of bio-oil in hydrotreatment: The key challenge in the way from biomass to biofuel. *Science of the Total Environment*, **2021**, 778, 146321 | 10.2 | 5 |
| 24 | Research progress on the preparation and application of biomass derived methyl levulinate. *Green Chemistry*, **2021**, 23, 9254-9282 | 10 | 4 |
| 23 | Effects of Water Content and Particle Size on Yield and Reactivity of Lignite Chars Derived from Pyrolysis and Gasification. *Molecules*, **2018**, 23, | 4.8 | 4 |
| 22 | Decomposition of benzyl phenyl ether over char-supported Ni: The effect of char structures. *Fuel Processing Technology*, **2021**, 221, 106941 | 7.2 | 4 |
| 21 | Importance of the synergistic effects between cobalt sulfate and tetrahydrofuran for selective production of 5-hydroxymethylfurfural from carbohydrates. *Catalysis Science and Technology*, **2020**, 10, 2293-2302 | 5.5 | 3 |
| 20 | Effects of the molecular structure from pitch fractions on the properties of pitch-based electrospun nanofibers. *Journal of Applied Polymer Science*, **2021**, 138, 50728 | 2.9 | 3 |
| 19 | Co-hydrothermal carbonization of swine manure and cellulose: Influence of mutual interaction of intermediates on properties of the products. *Science of the Total Environment*, **2021**, 791, 148134 | 10.2 | 3 |
| 18 | Highly dispersive Ru confined in porous ultrathin g-CN nanosheets as an efficient peroxymonosulfate activator for removal of organic pollutants.. *Journal of Hazardous Materials*, **2022**, 435, 128939 | 12.8 | 3 |
| 17 | N Evolution and Physiochemical Structure Changes in Chars during Co-Pyrolysis: Effects of Abundance of Glucose in Fiberboard. *Energies*, **2020**, 13, 5105 | 3.1 | 2 |

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| 16 | Binder free 3D core-shell NiFe layered double hydroxide (LDH) nanosheets (NSs) supported on Cu foam as a highly efficient non-enzymatic glucose sensor.. *Journal of Colloid and Interface Science*, **2022**, 615, 865-875 | 9.3 | 2 |
| 15 | Development of CO2/H2O activated biochar derived from pine pyrolysis: application in methylene blue adsorption. *Journal of Chemical Technology and Biotechnology*, | 3.5 | 2 |
| 14 | Volatile-char interactions during biomass pyrolysis: Reactor design toward product control. *Renewable Energy*, **2022**, 185, 1-7 | 8.1 | 2 |
| 13 | Hydrogenation of biomass derivatives over Ni/clay catalyst: significant impacts of the treatment of clay with NaOH on the reaction network. *Journal of Chemical Technology and Biotechnology*, **2021**, 96, 2569-2578 | 3.5 | 2 |
| 12 | Correlation of composition, cooling rate and superheating temperature with solidification behaviors and microstructures of AlBiSn ribbons. *Materials Research Express*, **2019**, 6, 066539 | 1.7 | 1 |
| 11 | Cross-interaction of volatiles from co-pyrolysis of lignin with pig manure and their effects on properties of the resulting biochar. *Biochar*, **2021**, 3, 391-405 | 10 | 1 |
| 10 | Selective Conversion of Furfural into Diols over Co-Based Catalysts: Importance of the Coordination of Hydrogenation Sites and Basic Sites. *Industrial & Engineering Chemistry Research*, **2021**, 60, 10393-10406 | 3.9 | 1 |
| 9 | Involvement of the organics in aqueous phase of bio-oil in hydrothermal carbonization of lignin.. *Bioresource Technology*, **2022**, 127055 | 11 | 1 |
| 8 | Activation of waste paper: Influence of varied chemical agents on product properties.. *Waste Management*, **2022**, 146, 94-105 | 8.6 | 1 |
| 7 | Production of methyl levulinate from cellulose over cobalt disulfide: The importance of the crystal facet (111). *Bioresource Technology*, **2021**, 347, 126436 | 11 | 0 |
| 6 | Preparation and electrochemical performance of activated carbon microspheres from recycled novolak phenol formaldehyde. *Waste Management*, **2021**, 120, 635-641 | 8.6 | 0 |
| 5 | Hydrogen- and Methane-Rich Clean Producer Gas from the Reforming of Bio-oil with Fe/AC Catalyst Prepared by a Stepwise Impregnation Method. *Bioenergy Research*,1 | 3.1 | 0 |
| 4 | Pyrolysis of cellulose: Correlation of hydrophilicity with evolution of functionality of biochar.. *Science of the Total Environment*, **2022**, 825, 153959 | 10.2 | 0 |
| 3 | The fate of char in controlling the rate of heavy metal transfer from soil to potato. *Chemical Papers*,1 | 1.9 | |
| 2 | Pyrolysis behaviors of rapeseed meal: products distribution and properties. *Biomass Conversion and Biorefinery*,1 | 2.3 | |
| 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 | |