

Christoph Pfeifer

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,510
citations

236925

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197818

49
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docs citations

64
times ranked

2118
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Hybrid grid-tie electrification analysis of bio-shared renewable energy systems for domestic application. <i>Sustainable Cities and Society</i> , 2022, 77, 103538. | 10.4 | 33 |
| 2 | Progress in in-situ CO ₂ -sorption for enhanced hydrogen production. <i>Progress in Energy and Combustion Science</i> , 2022, 91, 101008. | 31.2 | 28 |
| 3 | Performance Evaluation of a Hybrid Grid-Connected Photovoltaic Biogas-Generator Power System. <i>Energies</i> , 2022, 15, 3151. | 3.1 | 12 |
| 4 | Biochemical methane potential of three-phase olive mill solid waste: Influence of temperature and supplemental enzymes. <i>Carbon Resources Conversion</i> , 2022, 5, 248-254. | 5.9 | 10 |
| 5 | Enhancement of methane yield from cotton stalks by mechanical pre-treatment. <i>Carbon Resources Conversion</i> , 2021, 4, 164-168. | 5.9 | 13 |
| 6 | Heat-Up Performance of Catalyst Carriers—A Parameter Study and Thermodynamic Analysis. <i>Energies</i> , 2021, 14, 964. | 3.1 | 5 |
| 7 | Modified solar cells with antireflection coatings. <i>International Journal of Thermofluids</i> , 2021, 11, 100103. | 7.8 | 22 |
| 8 | Application of Hierarchical Agglomerative Clustering (HAC) for Systemic Classification of Pop-Up Housing (PUH) Environments. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11122. | 2.5 | 7 |
| 9 | Batch pyrolysis of cotton stalks for evaluation of biochar energy potential. <i>Renewable Energy</i> , 2020, 147, 2250-2258. | 8.9 | 51 |
| 10 | Supercritical carbon dioxide enhanced pre-treatment of cotton stalks for methane production. <i>Energy</i> , 2020, 194, 116903. | 8.8 | 23 |
| 11 | Carbon Sequestration in Support of the “€4 per 1000” Initiative Using Compost and Stable Biochar from Hazelnut Shells and Sunflower Husks. <i>Processes</i> , 2020, 8, 764. | 2.8 | 5 |
| 12 | Estimated View of Renewable Resources as a Sustainable Electrical Energy Source, Case Study. <i>Designs</i> , 2020, 4, 32. | 2.4 | 14 |
| 13 | Development of Full-Cycle Utilization of <i>Chlorella sorokiniana</i> Microalgae Biomass for Environmental and Food Purposes. <i>Energies</i> , 2020, 13, 2648. | 3.1 | 14 |
| 14 | Assessment of Combustion and Gasification Behavior in a Bubbling Fluidized Bed Reactor: A Comparison between Biomass with and without Chemical Additives. <i>Energy & Fuels</i> , 2020, 34, 9654-9663. | 5.1 | 10 |
| 15 | Reaction and Diffusion Kinetics during Hydrothermal Carbonization by Means of SEM—EDX Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1829-1835. | 3.7 | 7 |
| 16 | Solar Energy Powered Toilet for Emergency or Remote Areas Usage: Maker Movement innovation. , 2019, , . | | 0 |
| 17 | Detailed One-Dimensional Model for Steam-Biomass Gasification in a Bubbling Fluidized Bed. <i>Energy & Fuels</i> , 2019, 33, 7385-7397. | 5.1 | 14 |
| 18 | Implementation of maker movement to renewable energy laboratory: case study of auto-tracking photovoltaic model. , 2019, , . | | 0 |

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|----|---|------|-----------|
| 19 | Batch pyrolysis of cotton stalks for evaluation of biochar energy potential. E3S Web of Conferences, 2019, 116, 00001. | 0.5 | 3 |
| 20 | Applicability of Fuel Indexes for Small-Scale Biomass Combustion Technologies, Part 2: TSP and NO _x Emissions. Energy & Fuels, 2019, 33, 11724-11730. | 5.1 | 16 |
| 21 | Applicability of Fuel Indexes for Small-Scale Biomass Combustion Technologies, Part 1: Slag Formation. Energy & Fuels, 2019, 33, 10969-10977. | 5.1 | 28 |
| 22 | Behaviour of biomass particles in a bubbling fluidized bed: A comparison between wood pellets and wood chips. Chemical Engineering Journal, 2019, 363, 84-98. | 12.7 | 23 |
| 23 | Measurement and characterization of biomass mean residence time in an air-blown bubbling fluidized bed gasification reactor. Fuel, 2019, 253, 1414-1423. | 6.4 | 17 |
| 24 | Slagging and fouling characteristics during co-combustion of Scots pine bark with low-temperature dried pulp and paper mill chemical sludge. Fuel Processing Technology, 2019, 193, 282-294. | 7.2 | 14 |
| 25 | Prediction of void fraction and minimum fluidization velocity of a binary mixture of particles: Bed material and fuel particles. Powder Technology, 2019, 349, 99-107. | 4.2 | 22 |
| 26 | Investigation of Bubbling Behavior in Deep Fluidized Beds at Different Gas Velocities using Electrical Capacitance Tomography. Industrial & Engineering Chemistry Research, 2019, 58, 2084-2098. | 3.7 | 14 |
| 27 | A mass- and energy balance-based process modelling study for the pyrolysis of cotton stalks with char utilization for sustainable soil enhancement and carbon storage. Biomass and Bioenergy, 2019, 120, 281-290. | 5.7 | 33 |
| 28 | Models for Predicting Average Bubble Diameter and Volumetric Bubble Flux in Deep Fluidized Beds. Industrial & Engineering Chemistry Research, 2018, 57, 2658-2669. | 3.7 | 17 |
| 29 | Wet oxidation of process water from hydrothermal carbonization of biomass with nitrate as oxidant. Chemical Engineering Journal, 2018, 339, 1-6. | 12.7 | 23 |
| 30 | Impact of Pyrolysis Temperature on Charcoal Characteristics. Industrial & Engineering Chemistry Research, 2018, 57, 15613-15619. | 3.7 | 27 |
| 31 | Thermogravimetric analysis and kinetic study of marine plastic litter. Marine Pollution Bulletin, 2018, 133, 472-477. | 5.0 | 12 |
| 32 | Hydrothermal carbonization of agricultural residues: A case study of the farm residues -based biogas plants. Carbon Resources Conversion, 2018, 1, 81-85. | 5.9 | 32 |
| 33 | Fluid dynamics study on a dual fluidized bed cold-flow model. Powder Technology, 2017, 316, 469-475. | 4.2 | 6 |
| 34 | Reduced Local Emissions and Long-term Carbon Storage through Pyrolysis of Agricultural Waste and Application of Pyrolysis Char for Soil Improvement. Energy Procedia, 2017, 114, 6057-6066. | 1.8 | 24 |
| 35 | An application of grey wolf optimizer for optimal power flow of wind integrated power systems. , 2017, , . | | 13 |
| 36 | 2nd International Conference Biogas Science 2014, Vienna, Austria. Energy & Fuels, 2015, 29, 4003-4004. | 5.1 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Gasification of wood in a dual fluidized bed gasifier: Influence of fuel feeding on process performance. <i>Chemical Engineering Science</i> , 2013, 90, 284-298. | 3.8 | 74 |
| 38 | Reactivity tests of the water-gas shift reaction on fresh and used fluidized bed materials from industrial DFB biomass gasifiers. <i>Biomass and Bioenergy</i> , 2013, 55, 227-233. | 5.7 | 21 |
| 39 | Gasification of lignite in a dual fluidized bed gasifier – Influence of bed material particle size and the amount of steam. <i>Fuel Processing Technology</i> , 2013, 111, 1-13. | 7.2 | 55 |
| 40 | Cogasification of Polyethylene and Lignite in a Dual Fluidized Bed Gasifier. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4360-4371. | 3.7 | 27 |
| 41 | Co-Gasification of Wood and Lignite in a Dual Fluidized Bed Gasifier. <i>Energy & Fuels</i> , 2013, 27, 919-931. | 5.1 | 46 |
| 42 | Gasification of Low-Grade Coal in a Dual Fluidized-Bed Steam Gasifier. <i>Energy Technology</i> , 2013, 1, 253-264. | 3.8 | 12 |
| 43 | Cold flow model investigations of the countercurrent flow of a dual circulating fluidized bed gasifier. <i>Biomass Conversion and Biorefinery</i> , 2012, 2, 229-244. | 4.6 | 42 |
| 44 | The Effect of Bed Particle Inventories with Different Particle Sizes in a Dual Fluidized Bed Pilot Plant for Biomass Steam Gasification. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 10492-10502. | 3.7 | 25 |
| 45 | Synergetic Utilization of Renewable and Fossil Fuels: Dual Fluidized Bed Steam Co-gasification of Coal and Wood. <i>APCBEE Procedia</i> , 2012, 1, 136-140. | 0.5 | 19 |
| 46 | Rotary kiln pyrolysis of straw and fermentation residues in a 3MW pilot plant – Influence of pyrolysis temperature on pyrolysis product performance. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 97, 1-10. | 5.5 | 54 |
| 47 | Variation of feedstock in a dual fluidized bed steam gasifier – influence on product gas, tar content, and composition. <i>Environmental Progress and Sustainable Energy</i> , 2012, 31, 205-215. | 2.3 | 67 |
| 48 | Comparison of the performance behaviour of silica sand and olivine in a dual fluidised bed reactor system for steam gasification of biomass at pilot plant scale. <i>Chemical Engineering Journal</i> , 2011, 175, 468-483. | 12.7 | 161 |
| 49 | Catalysts for dual fluidised bed biomass gasification – an experimental study at the pilot plant scale. <i>Biomass Conversion and Biorefinery</i> , 2011, 1, 63-74. | 4.6 | 23 |
| 50 | Steam gasification of various feedstocks at a dual fluidised bed gasifier: Impacts of operation conditions and bed materials. <i>Biomass Conversion and Biorefinery</i> , 2011, 1, 39-53. | 4.6 | 171 |
| 51 | Gasification of waste wood and bark in a dual fluidized bed steam gasifier. <i>Biomass Conversion and Biorefinery</i> , 2011, 1, 91-97. | 4.6 | 34 |
| 52 | Co-gasification of coal and wood in a dual fluidized bed gasifier. <i>Fuel</i> , 2011, 90, 2404-2412. | 6.4 | 114 |
| 53 | H ₂ rich product gas by steam gasification of biomass with in situ CO ₂ absorption in a dual fluidized bed system of 8MW fuel input. <i>Fuel Processing Technology</i> , 2009, 90, 914-921. | 7.2 | 253 |
| 54 | Development of catalytic tar decomposition downstream from a dual fluidized bed biomass steam gasifier. <i>Powder Technology</i> , 2008, 180, 9-16. | 4.2 | 158 |

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|----|---|-----|-----------|
| 55 | Catalytic steam reforming of model biogas. Fuel, 2008, 87, 701-706. | 6.4 | 115 |
| 56 | Experimental Study of Model Biogas Catalytic Steam Reforming: 1. Thermodynamic Optimization. Energy & Fuels, 2008, 22, 4182-4189. | 5.1 | 54 |
| 57 | Experimental Study of Model Biogas Catalytic Steam Reforming: 2. Impact of Sulfur on the Deactivation and Regeneration of Ni-Based Catalysts. Energy & Fuels, 2008, 22, 4190-4195. | 5.1 | 84 |
| 58 | In-Situ CO ₂ -Absorption in a Dual Fluidized Bed Biomass Steam Gasifier to Produce a Hydrogen Rich Syngas. International Journal of Chemical Reactor Engineering, 2007, 5, . | 1.1 | 52 |
| 59 | In-Bed Catalytic Tar Reduction in a Dual Fluidized Bed Biomass Steam Gasifier. Industrial & Engineering Chemistry Research, 2004, 43, 1634-1640. | 3.7 | 230 |
| 60 | Bioenergy Recovery from Cotton Stalk. , 0, , . | | 9 |
| 61 | Combustion of Reeds in a 3 MW District Heating Plant. International Journal of Environmental Science and Development, 0, , 407-411. | 0.6 | 18 |
| 62 | Organosolv Plus Supercritical Carbon Dioxide Pre-Treatment of Cotton Stalks for Methane Production. , 0, , . | | 0 |