

Doyeon Lee

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

801
citations

471509

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501196

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docs citations

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times ranked

836
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Recent advances of thermochemical conversion processes for biorefinery. <i>Bioresource Technology</i> , 2022, 343, 126109. | 9.6 | 129 |
| 2 | Experimental investigation of plastic waste pyrolysis fuel and diesel blends combustion and its flue gas emission analysis in a 5ÅkW heater. <i>Energy</i> , 2022, 247, 123408. | 8.8 | 14 |
| 3 | CO ₂ methanation in a bench-scale bubbling fluidized bed reactor using Ni-based catalyst and its exothermic heat transfer analysis. <i>Energy</i> , 2021, 214, 118895. | 8.8 | 23 |
| 4 | Flow behavior and heat transfer in bubbling fluidized-bed with immersed heat exchange tubes for CO ₂ methanation. <i>Powder Technology</i> , 2021, 380, 462-474. | 4.2 | 17 |
| 5 | Effects of flue gas recirculation on energy, exergy, environment, and economics in oxyâ€œcoal circulating fluidizedâ€œbed power plants with <scp>CO₂</scp> capture. <i>International Journal of Energy Research</i> , 2021, 45, 5852-5865. | 4.5 | 12 |
| 6 | Effects of Temperature, Pressure, Gas Velocity, and Capacity on Reduction Characteristics of Mass Produced Particle in a 0.5 MWth Chemical Looping Combustion System. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , 2021, 32, 53-62. | 0.6 | 2 |
| 7 | Combustion Characteristics of Natural Gas and Syngas Using Mass Produced Oxygen Carrier Particle in a 0.5 MWth Chemical Looping Combustion System. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , 2021, 32, 134-142. | 0.6 | 5 |
| 8 | Potential of hydrogen replacement in natural-gas-powered fuel cells in Busan, South Korea based on the 2050 clean energy Master Plan of Busan Metropolitan City. <i>Energy</i> , 2021, 221, 119783. | 8.8 | 19 |
| 9 | Experiment and numerical analysis of catalytic CO ₂ methanation in bubbling fluidized bed reactor. <i>Energy Conversion and Management</i> , 2021, 233, 113863. | 9.2 | 16 |
| 10 | Characteristics of fractionated drop-in liquid fuel of plastic wastes from a commercial pyrolysis plant. <i>Waste Management</i> , 2021, 126, 411-422. | 7.4 | 35 |
| 11 | Experimental screening of oxygen carrier for a pressurized chemical looping combustion. <i>Fuel Processing Technology</i> , 2021, 218, 106860. | 7.2 | 11 |
| 12 | Investigation on the Cause of the SO ₂ Generation during Hot Gas Desulfurization (HGD) Process. <i>Catalysts</i> , 2021, 11, 985. | 3.5 | 2 |
| 13 | A modified correlation to calculate the transport velocity for pressurized chemical looping combustion. <i>Powder Technology</i> , 2021, 393, 421-426. | 4.2 | 2 |
| 14 | Drop-in fuel production with plastic waste pyrolysis oil over catalytic separation. <i>Fuel</i> , 2021, 305, 121440. | 6.4 | 28 |
| 15 | Enriched hydrogen production over air and air-steam fluidized bed gasification in a bubbling fluidized bed reactor with CaO: Effects of biomass and bed material catalyst. <i>Energy Conversion and Management</i> , 2020, 225, 113408. | 9.2 | 53 |
| 16 | Effect of surface properties controlled by Ce addition on CO ₂ methanation over Ni/Ce/Al ₂ O ₃ catalyst. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 24595-24603. | 7.1 | 61 |
| 17 | Effective thermocatalytic carbon dioxide methanation on Ca-inserted NiTiO ₃ perovskite. <i>Fuel</i> , 2020, 271, 117624. | 6.4 | 39 |
| 18 | Flow behaviors, reaction kinetics, and optimal design of fixed- and fluidized-beds for CO ₂ methanation. <i>Fuel</i> , 2020, 275, 117886. | 6.4 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Solid Circulation Characteristics of Two Lower Loop Seals with Two Kinds of Particles in a Circulating Fluidized Bed System. <i>Journal of Chemical Engineering of Japan</i> , 2019, 52, 106-110. | 0.6 | 0 |
| 20 | Oxygen Transfer Capacity of Pseudobrookite Particles Derived from Ilmenite Mineral (Ti_2O_3). <i>Journal of Chemical Engineering of Japan</i> , 2019, 52, 6590-6600. | 0.9 | 3 |
| 21 | Effect of Fines Content on Fluidity of FCC Catalysts for Stable Operation of Fluid Catalytic Cracking Unit. <i>Energies</i> , 2019, 12, 293. | 3.1 | 13 |
| 22 | Improvement of oxygen transfer capacity by migration of oxygen defects formed in $\text{Cu}_x\text{Mg}_{1-x}\text{Fe}_y\text{Ti}_{2-y}\text{O}_z$ particles. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 355-365. | 5.8 | 5 |
| 23 | Oxygen transfer capacity of the copper component introduced into the defected-MgMnAlO ₄ spinel structure in CH ₄ -CO ₂ /air redox cycles. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1971-1982. | 2.7 | 5 |
| 24 | Feasibility study of the use of by-product iron oxide and industrial off-gas for application to chemical looping hydrogen production. <i>Applied Energy</i> , 2018, 216, 466-481. | 10.1 | 18 |
| 25 | CO ₂ capture and regeneration properties of MgO-based sorbents promoted with alkali metal nitrates at high pressure for the sorption enhanced water gas shift process. <i>Chemical Engineering Research and Design</i> , 2018, 116, 219-227. | 5.6 | 30 |
| 26 | Effect of solid residence time on CO ₂ selectivity in a semi-continuous chemical looping combustor. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1257-1262. | 2.7 | 9 |
| 27 | Effect of Ce Doping of a Co/Al ₂ O ₃ Catalyst on Hydrogen Production via Propane Steam Reforming. <i>Catalysts</i> , 2018, 8, 413. | 3.5 | 12 |
| 28 | Significantly enhanced oxygen transfer capacity by the oxygen delivery channels formed in the inverse spinel $\text{Cu}_x\text{Mg}_{2-x}\text{Mn}_y\text{Ti}_{1-y}\text{O}_{4.0}$ particle. <i>International Journal of Energy Research</i> , 2018, 42, 3943-3956. | 4.5 | 4 |
| 29 | Selective methane production from visible-light-driven photocatalytic carbon dioxide reduction using the surface plasmon resonance effect of superfine silver nanoparticles anchored on lithium titanium dioxide nanocubes (Ag@LiTiO ₂). <i>Applied Catalysis B: Environmental</i> , 2018, 237, 895-910. | 20.2 | 37 |
| 30 | Osmotically driven membrane processes: Exploring the potential of branched polyethyleneimine as draw solute using porous FO membranes with NF separation layers. <i>Journal of Membrane Science</i> , 2016, 511, 278-288. | 8.2 | 20 |
| 31 | Permeation characteristics of volatile fatty acids solution by forward osmosis. <i>Process Biochemistry</i> , 2015, 50, 669-677. | 3.7 | 20 |
| 32 | Activation and Reactivity of Iron Oxides as Oxygen Carriers for Hydrogen Production by Chemical Looping. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3091-3100. | 3.7 | 32 |
| 33 | Solid circulation characteristics of the three-reactor chemical-looping process for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14546-14556. | 7.1 | 7 |
| 34 | Continuous operation characteristics of chemical looping hydrogen production system. <i>Applied Energy</i> , 2014, 113, 1667-1674. | 10.1 | 67 |
| 35 | The transition velocities in a dual circulating fluidized bed reactor with variation of temperatures. <i>Powder Technology</i> , 2014, 264, 583-591. | 4.2 | 21 |