# Doyeon Lee

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3446828/publications.pdf

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| 35 | 801 | 471509 17 | 501196 28 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 35 | 35 | 35 | 836 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Recent advances of thermochemical conversion processes for biorefinery. Bioresource Technology, 2022, 343, 126109. | 9.6 | 129 |
| 2 | Continuous operation characteristics of chemical looping hydrogen production system. Applied Energy, 2014, 113, 1667-1674. | 10.1 | 67 |
| 3 | Effect of surface properties controlled by Ce addition on CO2 methanation over Ni/Ce/Al2O3 catalyst. International Journal of Hydrogen Energy, 2020, 45, 24595-24603. | 7.1 | 61 |
| 4 | 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. Energy Conversion and Management, 2020, 225, 113408. | 9.2 | 53 |
| 5 | Effective thermocatalytic carbon dioxide methanation on Ca-inserted NiTiO3 perovskite. Fuel, 2020, 271, 117624. | 6.4 | 39 |
| 6 | 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@LixTiO2). Applied Catalysis B: Environmental, 2018, 237, 895-910. | 20.2 | 37 |
| 7 | Characteristics of fractionated drop-in liquid fuel of plastic wastes from a commercial pyrolysis plant. Waste Management, 2021, 126, 411-422. | 7.4 | 35 |
| 8 | Activation and Reactivity of Iron Oxides as Oxygen Carriers for Hydrogen Production by Chemical Looping. Industrial & Engineering Chemistry Research, 2015, 54, 3091-3100. | 3.7 | 32 |
| 9 | 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. Chemical Engineering Research and Design, 2018, 116, 219-227. | 5.6 | 30 |
| 10 | Flow behaviors, reaction kinetics, and optimal design of fixed- and fluidized-beds for CO2 methanation. Fuel, 2020, 275, 117886. | 6.4 | 30 |
| 11 | Drop-in fuel production with plastic waste pyrolysis oil over catalytic separation. Fuel, 2021, 305, 121440. | 6.4 | 28 |
| 12 | CO2 methanation in a bench-scale bubbling fluidized bed reactor using Ni-based catalyst and its exothermic heat transfer analysis. Energy, 2021, 214, 118895. | 8.8 | 23 |
| 13 | The transition velocities in a dual circulating fluidized bed reactor with variation of temperatures. Powder Technology, 2014, 264, 583-591. | 4.2 | 21 |
| 14 | Permeation characteristics of volatile fatty acids solution by forward osmosis. Process Biochemistry, 2015, 50, 669-677. | 3.7 | 20 |
| 15 | Osmotically driven membrane processes: Exploring the potential of branched polyethyleneimine as draw solute using porous FO membranes with NF separation layers. Journal of Membrane Science, 2016, 511, 278-288. | 8.2 | 20 |
| 16 | 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. Energy, 2021, 221, 119783. | 8.8 | 19 |
| 17 | Feasibility study of the use of by-product iron oxide and industrial off-gas for application to chemical looping hydrogen production. Applied Energy, 2018, 216, 466-481. | 10.1 | 18 |
| 18 | Flow behavior and heat transfer in bubbling fluidized-bed with immersed heat exchange tubes for CO2 methanation. Powder Technology, 2021, 380, 462-474. | 4.2 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Experiment and numerical analysis of catalytic CO2 methanation in bubbling fluidized bed reactor. Energy Conversion and Management, 2021, 233, 113863. | 9.2 | 16 |
| 20 | Experimental investigation of plastic waste pyrolysis fuel and diesel blends combustion and its flue gas emission analysis in a 5ÂkW heater. Energy, 2022, 247, 123408. | 8.8 | 14 |
| 21 | Effect of Fines Content on Fluidity of FCC Catalysts for Stable Operation of Fluid Catalytic Cracking Unit. Energies, 2019, 12, 293. | 3.1 | 13 |
| 22 | Effect of Ce Doping of a Co/Al2O3 Catalyst on Hydrogen Production via Propane Steam Reforming. Catalysts, 2018, 8, 413. | 3.5 | 12 |
| 23 | Effects of flue gas recirculation on energy, exergy, environment, and economics in oxyâ€coal circulating fluidizedâ€bed power plants with <scp>CO<sub>2</sub></scp> capture. International Journal of Energy Research, 2021, 45, 5852-5865. | 4.5 | 12 |
| 24 | Experimental screening of oxygen carrier for a pressurized chemical looping combustion. Fuel Processing Technology, 2021, 218, 106860. | 7.2 | 11 |
| 25 | Effect of solid residence time on CO2 selectivity in a semi-continuous chemical looping combustor. Korean Journal of Chemical Engineering, 2018, 35, 1257-1262. | 2.7 | 9 |
| 26 | Solid circulation characteristics of the three-reactor chemical-looping process for hydrogen production. International Journal of Hydrogen Energy, 2014, 39, 14546-14556. | 7.1 | 7 |
| 27 | Improvement of oxygen transfer capacity by migration of oxygen defects formed in CuxMg1â^'xFeyTi2â^'yOz particles. Journal of Industrial and Engineering Chemistry, 2019, 76, 355-365. | 5.8 | 5 |
| 28 | Oxygen transfer capacity of the copper component introduced into the defected-MgMnAlO4 spinel structure in CH4-CO2/air redox cycles. Korean Journal of Chemical Engineering, 2019, 36, 1971-1982. | 2.7 | 5 |
| 29 | Combustion Characteristics of Natural Gas and Syngas Using Mass Produced Oxygen Carrier Particle in a 0.5 MWth Chemical Looping Combustion System. Transactions of the Korean Hydrogen and New Energy Society, 2021, 32, 134-142. | 0.6 | 5 |
| 30 | Significantly enhanced oxygen transfer capacity by the oxygen delivery channels formed in the inverse spinel Cu<sub> x </sub> Mg<sub>2-x </sub> Mn<sub> y </sub> Ti<sub>1-y </sub> O<sub>4.0</sub> particle. International Journal of Energy Research, 2018, 42, 3943-3956. | 4.5 | 4 |
| 31 | Oxygen Transfer Capacity of Pseudobrookite Particles Derived from Ilmenite Mineral (x) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2019, 19, 6590-6600. | 0.9 | 3 |
| 32 | Effects of Temperature, Pressure, Gas Velocity, and Capacity on Reduction Characteristics of Mass Produced Particle in a 0.5 MWth Chemical Looping Combustion System. Transactions of the Korean Hydrogen and New Energy Society, 2021, 32, 53-62. | 0.6 | 2 |
| 33 | Investigation on the Cause of the SO2 Generation during Hot Gas Desulfurization (HGD) Process. Catalysts, 2021, 11, 985. | 3.5 | 2 |
| 34 | A modified correlation to calculate the transport velocity for pressurized chemical looping combustion. Powder Technology, 2021, 393, 421-426. | 4.2 | 2 |
| 35 | Solid Circulation Characteristics of Two Lower Loop Seals with Two Kinds of Particles in a Circulating Fluidized Bed System. Journal of Chemical Engineering of Japan, 2019, 52, 106-110. | 0.6 | 0 |