

Bo Jiang

List of Publications by Year in descending order

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59
papers

3,096
citations

126708

33
h-index

155451

55
g-index

59
all docs

59
docs citations

59
times ranked

2560
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Hydrogen production from the thermochemical conversion of biomass: issues and challenges. <i>Sustainable Energy and Fuels</i> , 2019, 3, 314-342. | 2.5 | 224 |
| 2 | Solid sorbents for in-situ CO ₂ removal during sorption-enhanced steam reforming process: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 536-546. | 8.2 | 171 |
| 3 | Hydrogen production by sorption-enhanced chemical looping steam reforming of ethanol in an alternating fixed-bed reactor: Sorbent to catalyst ratio dependencies. <i>Energy Conversion and Management</i> , 2018, 155, 243-252. | 4.4 | 141 |
| 4 | High carbon resistant Ni@Ni phyllosilicate@SiO ₂ core shell hollow sphere catalysts for low temperature CH ₄ dry reforming. <i>Journal of CO₂ Utilization</i> , 2018, 27, 238-246. | 3.3 | 122 |
| 5 | Highly Salt-Resistant 3D Hydrogel Evaporator for Continuous Solar Desalination via Localized Crystallization. <i>Advanced Functional Materials</i> , 2021, 31, 2104380. | 7.8 | 122 |
| 6 | Hydrogen production and reduction of Ni-based oxygen carriers during chemical looping steam reforming of ethanol in a fixed-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26217-26230. | 3.8 | 121 |
| 7 | TG/DSC-FTIR and Py-GC investigation on pyrolysis characteristics of petrochemical wastewater sludge. <i>Bioresource Technology</i> , 2015, 192, 1-10. | 4.8 | 117 |
| 8 | A review on perovskite catalysts for reforming of methane to hydrogen production. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110291. | 8.2 | 114 |
| 9 | Flexible and Mildew-Resistant Wood-Derived Aerogel for Stable and Efficient Solar Desalination. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28179-28187. | 4.0 | 114 |
| 10 | Highly Thermally Insulated and Superhydrophilic Corn Straw for Efficient Solar Vapor Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16503-16511. | 4.0 | 108 |
| 11 | Hydrogen production from chemical looping steam reforming of glycerol by Ni-based oxygen carrier in a fixed-bed reactor. <i>Chemical Engineering Journal</i> , 2015, 280, 459-467. | 6.6 | 86 |
| 12 | Dry reforming of methane on Ni/mesoporous-Al ₂ O ₃ catalysts: Effect of calcination temperature. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 31041-31053. | 3.8 | 82 |
| 13 | Programmed design of selectively-functionalized wood aerogel: Affordable and mildew-resistant solar-driven evaporator. <i>Nano Energy</i> , 2021, 87, 106146. | 8.2 | 77 |
| 14 | Hydrogen generation from chemical looping reforming of glycerol by Ce-doped nickel phyllosilicate nanotube oxygen carriers. <i>Fuel</i> , 2018, 222, 185-192. | 3.4 | 74 |
| 15 | Hydrogen production from ethanol steam reforming on Ni-Ce/MMT catalysts. <i>Energy</i> , 2018, 149, 937-943. | 4.5 | 72 |
| 16 | Sorption-enhanced steam reforming of glycerol on Ni-based multifunctional catalysts. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7037-7044. | 3.8 | 71 |
| 17 | Sintering resistant Ni nanoparticles exclusively confined within SiO ₂ nanotubes for CH ₄ dry reforming. <i>Catalysis Science and Technology</i> , 2018, 8, 3363-3371. | 2.1 | 71 |
| 18 | Fluidized-bed gasification combined continuous sorption-enhanced steam reforming system to continuous hydrogen production from waste plastic. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3803-3810. | 3.8 | 65 |

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|----|---|-----|-----------|
| 19 | Effect of support on hydrogen production from chemical looping steam reforming of ethanol over Ni-based oxygen carriers. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17334-17347. | 3.8 | 62 |
| 20 | Enhanced hydrogen production by sorption-enhanced steam reforming from glycerol with in-situ CO ₂ removal in a fixed-bed reactor. <i>Fuel</i> , 2016, 166, 340-346. | 3.4 | 60 |
| 21 | Pyrolysis of oil-plant wastes in a TGA and a fixed-bed reactor: Thermochemical behaviors, kinetics, and products characterization. <i>Bioresource Technology</i> , 2015, 192, 592-602. | 4.8 | 57 |
| 22 | Hydrogen production by chemical looping steam reforming of ethanol using NiO/montmorillonite oxygen carriers in a fixed-bed reactor. <i>Chemical Engineering Journal</i> , 2016, 298, 96-106. | 6.6 | 55 |
| 23 | Renewable hydrogen production from chemical looping steam reforming of ethanol using xCeNi/SBA-15 oxygen carriers in a fixed-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 12899-12909. | 3.8 | 55 |
| 24 | Sorption enhanced steam reforming of biodiesel by-product glycerol on Ni-CaO-MMT multifunctional catalysts. <i>Chemical Engineering Journal</i> , 2017, 313, 207-216. | 6.6 | 53 |
| 25 | A novel oxygen carrier for chemical looping reforming: LaNiO ₃ perovskite supported on montmorillonite. <i>Energy</i> , 2017, 131, 58-66. | 4.5 | 49 |
| 26 | Hydrogen production from chemical looping steam reforming of glycerol by Ni based Al-MCM-41 oxygen carriers in a fixed-bed reactor. <i>Fuel</i> , 2016, 183, 170-176. | 3.4 | 48 |
| 27 | Highly dispersed Ni/montmorillonite catalyst for glycerol steam reforming: Effect of Ni loading and calcination temperature. <i>Applied Thermal Engineering</i> , 2016, 109, 99-108. | 3.0 | 44 |
| 28 | Iron's oxygen covalency in perovskites to dominate syngas yield in chemical looping partial oxidation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13008-13018. | 5.2 | 43 |
| 29 | Chemical looping glycerol reforming for hydrogen production by Ni@ZrO ₂ nanocomposite oxygen carriers. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13200-13211. | 3.8 | 40 |
| 30 | Sorption-Enhanced Steam Reforming of Glycerol for Hydrogen Production over a NiO/NiAl ₂ O ₄ Catalyst and Li ₂ ZrO ₃ -Based Sorbent. <i>Energy & Fuels</i> , 2015, 29, 7408-7418. | 2.5 | 39 |
| 31 | Dual-film optofluidic microreactor with enhanced light-harvesting for photocatalytic applications. <i>Chemical Engineering Journal</i> , 2018, 339, 71-77. | 6.6 | 39 |
| 32 | High purity hydrogen production from sorption enhanced chemical looping glycerol reforming: Application of NiO-based oxygen transfer materials and potassium promoted Li ₂ ZrO ₃ as CO ₂ sorbent. <i>Applied Thermal Engineering</i> , 2017, 124, 454-465. | 3.0 | 36 |
| 33 | Hydrogen sorption and desorption behaviors of Mg-Ni-Cu doped carbon nanotubes at high temperature. <i>Energy</i> , 2019, 167, 1097-1106. | 4.5 | 36 |
| 34 | Hydrogen generation by acetic acid steam reforming over Ni-based catalysts derived from La _{1-x} Ce _x NiO ₃ perovskite. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6795-6803. | 3.8 | 34 |
| 35 | Optimal way to achieve renewable portfolio standard policy goals from the electricity generation, transmission, and trading perspectives in southern China. <i>Energy Policy</i> , 2020, 139, 111319. | 4.2 | 32 |
| 36 | Optimization of electricity generation and interprovincial trading strategies in Southern China. <i>Energy</i> , 2019, 174, 696-707. | 4.5 | 29 |

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|----|---|-----|-----------|
| 37 | CFD Simulation of a Hydrogen-Permeable Membrane Reactor for CO ₂ Reforming of CH ₄ : The Interplay of the Reaction and Hydrogen Permeation. <i>Energy & Fuels</i> , 2020, 34, 12366-12378. | 2.5 | 29 |
| 38 | A high temperature tubular reactor with hybrid concentrated solar and electric heat supply for steam methane reforming. <i>Chemical Engineering Journal</i> , 2022, 428, 132073. | 6.6 | 29 |
| 39 | Oxygen Activity Tuning via FeO ₆ Octahedral Tilting in Perovskite Ferrites for Chemical Looping Dry Reforming of Methane. <i>ACS Catalysis</i> , 2022, 12, 7326-7335. | 5.5 | 27 |
| 40 | Bioinspired hierarchical evaporator via cell wall engineering for highly efficient and sustainable solar desalination. <i>EcoMat</i> , 2022, 4, . | 6.8 | 24 |
| 41 | An intelligent oxygen carrier of La ^{0.8} Sr ^{0.2} NiO ₄ for hydrogen production by chemical looping reforming of ethanol. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17102-17111. | 3.8 | 23 |
| 42 | Hydrogen Production from Chemical Looping Reforming of Ethanol Using Ni/CeO ₂ Nanorod Oxygen Carrier. <i>Catalysts</i> , 2018, 8, 257. | 1.6 | 23 |
| 43 | Cu/SiO ₂ derived from copper phyllosilicate for low-temperature water-gas shift reaction: Role of Cu ⁺ sites. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27078-27088. | 3.8 | 23 |
| 44 | Hydrogen by chemical looping reforming of ethanol: The effect of promoters on La ₂ MNiO ₄ (M= Ca, Sr) Tj ETQq0 Q 0 rgBT /Overlock 10 | 1.9 | 21 |
| 45 | CFD simulation on hydrogen-membrane reactor integrating cyclohexane dehydrogenation and CO ₂ methanation reactions: A conceptual study. <i>Energy Conversion and Management</i> , 2021, 235, 113989. | 4.4 | 15 |
| 46 | Multifunctional Ni-based oxygen carrier for H ₂ production by sorption enhanced chemical looping reforming of ethanol. <i>Fuel Processing Technology</i> , 2021, 221, 106953. | 3.7 | 15 |
| 47 | A flexible image processing technique for measuring bubble parameters based on a neural network. <i>Chemical Engineering Journal</i> , 2022, 429, 132138. | 6.6 | 15 |
| 48 | Data-driven approach to predict the flow boiling heat transfer coefficient of liquid hydrogen aviation fuel. <i>Fuel</i> , 2022, 324, 124778. | 3.4 | 14 |
| 49 | Chemical Looping Reforming of Glycerol for Continuous H ₂ Production by Moving-Bed Reactors: Simulation and Experiment. <i>Energy & Fuels</i> , 2020, 34, 1841-1850. | 2.5 | 13 |
| 50 | Investigation on multifunctional Au/TiO ₂ @n-octadecane microcapsules towards catalytic photoreforming hydrogen production and photothermal conversion. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 41540-41552. | 3.8 | 10 |
| 51 | Hydrogen Production from Chemical Looping Steam Reforming of Ethanol over Perovskite-Type Oxygen Carriers with Bimetallic Co and Ni B-Site Substitution. <i>Catalysts</i> , 2018, 8, 372. | 1.6 | 9 |
| 52 | Deciphering high-efficiency solar-thermochemical energy conversion process of heat pipe reactor for steam methane reforming. <i>Fuel</i> , 2022, 326, 124972. | 3.4 | 9 |
| 53 | Defect-engineered MXene monolith enabling interfacial photothermal catalysis for high-yield solar hydrogen generation. <i>Cell Reports Physical Science</i> , 2022, 3, 100877. | 2.8 | 8 |
| 54 | A compact and high-efficiency electrified reactor for hydrogen production by methane steam reforming. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 41421-41431. | 3.8 | 7 |

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|----|---|-----|-----------|
| 55 | Alkaline treatment of used carbon-brush anodes for restoring power generation of microbial fuel cells. RSC Advances, 2018, 8, 36754-36760. | 1.7 | 5 |
| 56 | Simulation study on the performance of low-temperature water gas shift membrane reactor system. International Journal of Hydrogen Energy, 2021, 46, 15595-15608. | 3.8 | 5 |
| 57 | A CFD study on the performance of CO2 methanation in water-permeable membrane reactor system. Reaction Chemistry and Engineering, 0, , . | 1.9 | 4 |
| 58 | A CFD study on H2-permeable membrane reactor for methane CO2 reforming: Effect of catalyst bed volume. International Journal of Hydrogen Energy, 2021, 46, 38336-38350. | 3.8 | 3 |
| 59 | Boosting power density of photocatalytic fuel cells with integrated supercapacitive photoanode. Chemosphere, 2022, 286, 131657. | 4.2 | 2 |