

Mao-Hong Fan

List of Publications by Year in descending order

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410
papers

26,478
citations

8181

76
h-index

8866

145
g-index

420
all docs

420
docs citations

420
times ranked

27772
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The newly-assisted catalytic mechanism of surface hydroxyl species performed as the promoter in syngas-to-C ₂ species on the Cu-based bimetallic catalysts. <i>Green Energy and Environment</i> , 2023, 8, 487-498. | 8.7 | 2 |
| 2 | C ₂ H ₂ semi-hydrogenation on the Pd _x My cluster/graphdiyne catalysts: Effects of cluster composition and size on the activity and selectivity. <i>Green Energy and Environment</i> , 2022, 7, 500-511. | 8.7 | 10 |
| 3 | Three-dimensional, heteroatom-enriched, porous carbon nanofiber flexible paper for free-standing supercapacitor electrode materials derived from microalgae oil. <i>Fuel Processing Technology</i> , 2022, 225, 107055. | 7.2 | 19 |
| 4 | The roles of Rh crystal phase and facet in syngas conversion to ethanol. <i>Chemical Engineering Science</i> , 2022, 248, 117186. | 3.8 | 10 |
| 5 | Metal halide perovskites for photocatalysis applications. <i>Journal of Materials Chemistry A</i> , 2022, 10, 407-429. | 10.3 | 61 |
| 6 | Biomass-derived porous carbons support in phase change materials for building energy efficiency: a review. <i>Materials Today Energy</i> , 2022, 23, 100905. | 4.7 | 26 |
| 7 | C ₂ H ₂ semi-hydrogenation over Cu catalysts: Revealing the influence of Cu active site types on the catalytic performance. <i>Chemical Engineering Science</i> , 2022, 251, 117494. | 3.8 | 4 |
| 8 | Theoretical insight into mercury species adsorption on graphene-based Pt single-atom catalysts. <i>RSC Advances</i> , 2022, 12, 5797-5806. | 3.6 | 5 |
| 9 | A predicted new catalyst to replace noble metal Pd for CO oxidative coupling to DMO. <i>Catalysis Science and Technology</i> , 2022, 12, 2542-2554. | 4.1 | 3 |
| 10 | Removal of ions from produced water using Powder River Basin coal. <i>International Journal of Coal Science and Technology</i> , 2022, 9, 1. | 6.0 | 4 |
| 11 | The role of CO ₂ over different binary catalysts in methanol synthesis. <i>Catalysis Today</i> , 2022, , . | 4.4 | 0 |
| 12 | C ₂ H ₂ semi-hydrogenation: Engineering the surface structure of Pt-based bimetallic catalysts to adjust catalytic performance. <i>Fuel</i> , 2022, 321, 124118. | 6.4 | 7 |
| 13 | A quantitative structure activity relationship (QSAR) model for predicting the rate constant of the reaction between VOCs and NO ₃ radicals. <i>Chemical Engineering Journal</i> , 2022, 448, 136413. | 12.7 | 8 |
| 14 | Syngas Conversion to C ₂ Species over WC and M/WC (M = Cu or Rh) Catalysts: Identifying the Function of Surface Termination and Supported Metal Type. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19491-19504. | 8.0 | 2 |
| 15 | Intrinsic activity and selectivity enhancement of single-atom Rh in syngas-to-C ₂ oxygenates by engineering the local coordination atom. <i>Applied Surface Science</i> , 2022, 597, 153755. | 6.1 | 3 |
| 16 | Core-Shell Covalently Linked Graphitic Carbon Nitride-Melamine-Resorcinol-Formaldehyde Microsphere Polymers for Efficient Photocatalytic CO ₂ Reduction to Methanol. <i>Journal of the American Chemical Society</i> , 2022, 144, 9576-9585. | 13.7 | 62 |
| 17 | High thermal stability Si-Al based N-carrier for efficient and stable chemical looping ammonia generation. <i>Applied Energy</i> , 2022, 323, 119519. | 10.1 | 10 |
| 18 | Robust dry amine-solid CO ₂ sorbent synthesized by a facile, cost-effective and environmental friendly pathway. <i>Chemical Engineering Journal</i> , 2021, 404, 126447. | 12.7 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Boosting photocatalytic CO ₂ reduction over a covalent organic framework decorated with ruthenium nanoparticles. <i>Chemical Engineering Journal</i> , 2021, 405, 127011. | 12.7 | 104 |
| 20 | Engineering Ni/SiO ₂ catalysts for enhanced CO ₂ methanation. <i>Fuel</i> , 2021, 285, 119151. | 6.4 | 76 |
| 21 | Effect of calcium ferrites on carbon dioxide gasification reactivity and kinetics of pine wood derived char. <i>Renewable Energy</i> , 2021, 163, 445-452. | 8.9 | 19 |
| 22 | Experimental investigation of CO ₂ adsorption and desorption on multi-type amines loaded HZSM-5 zeolites. <i>Chemical Engineering Journal</i> , 2021, 406, 126882. | 12.7 | 45 |
| 23 | Advance in Using Plasma Technology for Modification or Fabrication of Carbon-Based Materials and Their Applications in Environmental, Material, and Energy Fields. <i>Advanced Functional Materials</i> , 2021, 31, 2006287. | 14.9 | 55 |
| 24 | Highly dispersed Ru nanoparticles on a bipyridine-linked covalent organic framework for efficient photocatalytic CO ₂ reduction. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2871-2876. | 4.9 | 30 |
| 25 | A novel Bi ₂ S ₃ /KTa _{0.75} Nb _{0.25} O ₃ nanocomposite with high efficiency for photocatalytic and piezocatalytic N ₂ fixation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13344-13354. | 10.3 | 109 |
| 26 | Metal-support interactions in Fe-Cu-K admixed with SAPO-34 catalysts for highly selective transformation of CO ₂ and H ₂ into lower olefins. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21877-21887. | 10.3 | 11 |
| 27 | Nanostructure rod-like TiO ₂ -reduced graphene oxide composite aerogels for highly-efficient visible-light photocatalytic CO ₂ reduction. <i>Journal of Alloys and Compounds</i> , 2021, 861, 158598. | 5.5 | 26 |
| 28 | Modification of Catalytic Properties of Hollandite Manganese Oxide by Ag Intercalation for Oxidative Acetalization of Ethanol to Diethoxyethane. <i>ACS Catalysis</i> , 2021, 11, 5347-5357. | 11.2 | 14 |
| 29 | Application of percarbonate and peroxymonocarbonate in decontamination technologies. <i>Journal of Environmental Sciences</i> , 2021, 105, 100-115. | 6.1 | 30 |
| 30 | C ₂ H ₂ Selective Hydrogenation to C ₂ H ₄ : Engineering the Surface Structure of Pd-Based Alloy Catalysts to Adjust the Catalytic Performance. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15251-15261. | 3.1 | 13 |
| 31 | Theoretical DFT Study on the Mechanisms of CO/CO ₂ Conversion in Chemical Looping Catalyzed by Calcium Ferrite. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8159-8167. | 2.5 | 2 |
| 32 | A techno-economic analysis of solar catalytic chemical looping biomass refinery for sustainable production of high purity hydrogen. <i>Energy Conversion and Management</i> , 2021, 243, 114341. | 9.2 | 9 |
| 33 | A new method for preparing excellent electrical conductivity carbon nanofibers from coal extraction residual. <i>Cleaner Engineering and Technology</i> , 2021, 4, 100109. | 4.0 | 3 |
| 34 | C ₂ H ₂ semi-hydrogenation on the metal M (M=Cu, Ag, Au) alloyed single-atom Pd catalysts: Effects of Pd coordination number and environment on the catalytic performance. <i>Chemical Engineering Science</i> , 2021, 243, 116786. | 3.8 | 8 |
| 35 | Cu ₂ O-catalyzed C ₂ H ₂ selective hydrogenation: Use of S for efficiently enhancing C ₂ H ₄ selectivity and reducing the formation of green oil precursor. <i>Chemical Engineering Science</i> , 2021, 246, 116984. | 3.8 | 6 |
| 36 | Visible-light-driven photocatalytic CO ₂ reduction over ketoenamine-based covalent organic frameworks: role of the host functional groups. <i>Catalysis Science and Technology</i> , 2021, 11, 1717-1724. | 4.1 | 46 |

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|----|--|------|-----------|
| 37 | CO oxidative coupling to dimethyl oxalate over Pd monolayer supported on SiC substrate: insight into the effects of different exposed terminals. <i>Molecular Catalysis</i> , 2021, 515, 111926. | 2.0 | 1 |
| 38 | High-performance nano-structured Ni based catalysts for high-temperature CO ₂ CH ₄ reforming of Greenhouse gases to syngas. <i>Catalysis Today</i> , 2020, 339, 344-351. | 4.4 | 8 |
| 39 | CO ₂ Adsorption on Hazelnut-Shell-Derived Nitrogen-Doped Porous Carbons Synthesized by Single-Step Sodium Amide Activation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7046-7053. | 3.7 | 88 |
| 40 | First principle study of feasibility of dinitrogen reduction to ammonia on two-dimensional transition metal phthalocyanine monolayer. <i>Applied Surface Science</i> , 2020, 500, 144032. | 6.1 | 34 |
| 41 | Kinetics and mechanism of CO ₂ gasification of coal catalyzed by Na ₂ CO ₃ , FeCO ₃ and Na ₂ CO ₃ @FeCO ₃ . <i>Journal of the Energy Institute</i> , 2020, 93, 922-933. | 5.3 | 31 |
| 42 | The adsorption of phosphate on hydroxylated alpha-SiO ₂ (001) surface and influence of typical anions: A theoretical study. <i>Applied Surface Science</i> , 2020, 501, 144233. | 6.1 | 24 |
| 43 | Mechanistic research on NO removal by K ₂ S ₂ O ₈ with electrochemical catalysis. <i>Chemical Engineering Journal</i> , 2020, 382, 122873. | 12.7 | 21 |
| 44 | Rare earth elements of fly ash from Wyoming's Powder River Basin coal. <i>Journal of Rare Earths</i> , 2020, 38, 219-226. | 4.8 | 33 |
| 45 | Dimethyl oxalate synthesis via CO oxidation on Pd-doped Ag(111) surface: A theoretic study. <i>Molecular Catalysis</i> , 2020, 484, 110731. | 2.0 | 8 |
| 46 | Two-Dimensional Transition Metal Porphyrin Sheets as a Promising Single-Atom-Catalyst for Dinitrogen Electrochemical Reduction to Ammonia: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1492-1499. | 3.1 | 30 |
| 47 | Promising zirconia-mixed Al-based nitrogen carriers for chemical looping of NH ₃ : Reduced NH ₃ decomposition and improved NH ₃ yield. <i>Fuel</i> , 2020, 264, 116821. | 6.4 | 24 |
| 48 | Electrochemical ammonia synthesis catalyzed with a CoFe layered double hydroxide – A new initiative in clean fuel synthesis. <i>Journal of Cleaner Production</i> , 2020, 250, 119525. | 9.3 | 20 |
| 49 | High-performance of nanostructured Ni/CeO ₂ catalyst on CO ₂ methanation. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118474. | 20.2 | 226 |
| 50 | Enhanced liquid tar production as fuels/chemicals from Powder River Basin coal through CaO catalyzed stepwise degradation in eco-friendly supercritical CO ₂ /ethanol. <i>Energy</i> , 2020, 191, 116563. | 8.8 | 3 |
| 51 | Effective carbon dioxide stabilization of nanofibers electrospun from raw coal tar and polyacrylonitrile. <i>Journal of Cleaner Production</i> , 2020, 276, 123229. | 9.3 | 7 |
| 52 | A win-win method for generating carbon material precursors of carbon nanofibers from coal and CO ₂ and the associated mechanism. <i>Fuel</i> , 2020, 272, 117712. | 6.4 | 4 |
| 53 | Unveiling the critical role of p-d hybridization interaction in M ₁₃ nGan clusters on CO ₂ adsorption. <i>Fuel</i> , 2020, 280, 118446. | 6.4 | 9 |
| 54 | Improved methanol synthesis performance of Cu/ZnO/Al ₂ O ₃ catalyst by controlling its precursor structure. <i>Green Energy and Environment</i> , 2020, , . | 8.7 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Simultaneous Removal of SO ₂ and Hg ⁰ by Composite Oxidant NaClO/NaClO ₂ in a Packed Tower. ACS Omega, 2020, 5, 17931-17939. | 3.5 | 4 |
| 56 | Titanium oxyhydroxide – A new effective candidate for resolving the challenging water quality issue of high alkalinity. Journal of Environmental Chemical Engineering, 2020, 8, 104447. | 6.7 | 0 |
| 57 | Enhanced near-zero-CO ₂ -emission chemicals-oriented oil production from coal with inherent CO ₂ recycling: Part I – PRB coal fast pyrolysis coupled with CO ₂ /CH ₄ reforming. International Journal of Coal Science and Technology, 2020, 7, 433-443. | 6.0 | 3 |
| 58 | Synthesis of Highly Nanoporous β -Silicon Carbide from Corn Stover and Sandstone. ACS Sustainable Chemistry and Engineering, 2020, 8, 14896-14904. | 6.7 | 11 |
| 59 | Effects of mixture of CO ₂ /CH ₄ as pyrolysis atmosphere on pine wood pyrolysis products. Renewable Energy, 2020, 162, 1243-1254. | 8.9 | 20 |
| 60 | Flexible carbon nanofibers for high-performance free-standing supercapacitor electrodes derived from Powder River Basin coal. Fuel, 2020, 278, 117985. | 6.4 | 37 |
| 61 | Lithium Enrichment in the No. 21 Coal of the Hebi No. 6 Mine, Anhe Coalfield, Henan Province, China. Minerals (Basel, Switzerland), 2020, 10, 521. | 2.0 | 12 |
| 62 | Carbon Nanofibers Prepared from Solar Pyrolysis of Pinewood as Binder-free Electrodes for Flexible Supercapacitors. Cell Reports Physical Science, 2020, 1, 100079. | 5.6 | 15 |
| 63 | The volume expansion effect of amine during CO ₂ adsorption process: An experimental study combined with theoretical calculations. Journal of Colloid and Interface Science, 2020, 572, 190-197. | 9.4 | 9 |
| 64 | Insight into Crystal Phase Dependent CO Dissociation on Rh Catalyst from DFT and Microkinetic Modeling. Journal of Physical Chemistry C, 2020, 124, 6756-6769. | 3.1 | 7 |
| 65 | Perspectives on the Active Sites and Catalyst Design for the Hydrogenation of Dimethyl Oxalate. ACS Catalysis, 2020, 10, 4465-4490. | 11.2 | 69 |
| 66 | Mechanism study on CO ₂ capture by [TETAH][HCOO]-PEG200 mixed system. International Journal of Greenhouse Gas Control, 2020, 96, 103013. | 4.6 | 7 |
| 67 | Preparation of biomass-derived porous carbon supported Ni nanoparticles for CO ₂ reforming of CH ₄ . New Journal of Chemistry, 2020, 44, 12503-12513. | 2.8 | 4 |
| 68 | Advances in electrocatalytic ammonia synthesis under mild conditions. Progress in Energy and Combustion Science, 2020, 81, 100860. | 31.2 | 38 |
| 69 | Effect of copper on highly effective Fe-Mn based catalysts during production of light olefins via Fischer-Tropsch process with low CO ₂ emission. Applied Catalysis B: Environmental, 2020, 278, 119302. | 20.2 | 58 |
| 70 | Probe into the effects of surface composition and ensemble effect of active sites on the catalytic performance of C ₂ H ₂ semi-hydrogenation over the Pd-Ag bimetallic catalysts. Chemical Engineering Science, 2020, 218, 115549. | 3.8 | 30 |
| 71 | High-performance mesoporous (AlN/Al ₂ O ₃) for enhanced NH ₃ yield during chemical looping ammonia generation technology. International Journal of Hydrogen Energy, 2020, 45, 9903-9913. | 7.1 | 23 |
| 72 | Degradation of ibuprofen in the carbon dots/Fe ₃ O ₄ @carbon sphere pomegranate-like composites activated persulfate system. Separation and Purification Technology, 2020, 242, 116820. | 7.9 | 42 |

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|----|---|------|-----------|
| 73 | Highly efficient methane decomposition to H ₂ and CO ₂ reduction to CO via redox looping of Ca ₂ Fe _x Al _{2-x} O ₅ supported Ni _y Fe _{3-y} O ₄ nanoparticles. Applied Catalysis B: Environmental, 2020, 271, 118938. | 20.2 | 24 |
| 74 | NMR Techniques and Prediction Models for the Analysis of Species Formed in CO ₂ Capture Processes with Amine-Based Sorbents: A Critical Review. ACS Sustainable Chemistry and Engineering, 2020, 8, 6173-6193. | 6.7 | 50 |
| 75 | A new approach of reduction of carbon dioxide emission and optimal use of carbon and hydrogen content for the desired syngas production from coal. Journal of Cleaner Production, 2020, 265, 121786. | 9.3 | 12 |
| 76 | Green and efficient two-step degradation approach for converting Powder River Basin coal into fuels/chemicals and insights into their chemical compositions. Applied Energy, 2020, 264, 114739. | 10.1 | 15 |
| 77 | Shape-tailorable amine grafted silica aerogel microsphere for CO ₂ capture. Green Chemical Engineering, 2020, 1, 140-146. | 6.3 | 8 |
| 78 | Thermodynamics of NaHCO ₃ decomposition during Na ₂ CO ₃ -based CO ₂ capture. Journal of Environmental Sciences, 2019, 78, 74-80. | 6.1 | 15 |
| 79 | Understanding the catalytic mechanisms of CO ₂ hydrogenation to methanol on unsupported and supported Ga-Ni clusters. Applied Energy, 2019, 253, 113623. | 10.1 | 34 |
| 80 | CO ₂ hydrogenation to light olefins with high-performance Fe _{0.30} Co _{0.15} Zr _{0.45} K _{0.10} O _{1.63} . Journal of Catalysis, 2019, 377, 224-232. | 6.2 | 37 |
| 81 | Low-energy-consumption and environmentally friendly CO ₂ capture via blending alcohols into amine solution. Applied Energy, 2019, 254, 113696. | 10.1 | 39 |
| 82 | Carbon nanofiber generation from the precursor containing unprecedentedly high percentage of inexpensive coal-derived carbon material. Journal of Cleaner Production, 2019, 236, 117621. | 9.3 | 8 |
| 83 | The new role of surface adsorbed CH ₃ intermediates as a co-adsorbed promoter in self-promoting syngas conversion to form CH ₄ on the Rh-doped Cu catalyst. Journal of Catalysis, 2019, 377, 1-12. | 6.2 | 18 |
| 84 | Improvement of dispersion stability of filler based on fly ash by adding sodium hexametaphosphate in gas-sealing coating. Journal of Cleaner Production, 2019, 235, 259-271. | 9.3 | 18 |
| 85 | Recent progress in theoretical and computational studies on the utilization of lignocellulosic materials. Green Chemistry, 2019, 21, 9-35. | 9.0 | 96 |
| 86 | Clean and low-cost synthesis of high purity beta-silicon carbide with carbon fiber production residual and a sandstone. Journal of Cleaner Production, 2019, 238, 117875. | 9.3 | 16 |
| 87 | Synergistic enhancement of chemical looping-based CO ₂ splitting with biomass cascade utilization using cyclic stabilized Ca ₂ Fe ₂ O ₅ aerogel. Journal of Materials Chemistry A, 2019, 7, 1216-1226. | 10.3 | 43 |
| 88 | New insight into the reaction mechanism of carbon disulfide hydrolysis and the impact of H ₂ S with density functional modeling. New Journal of Chemistry, 2019, 43, 2347-2352. | 2.8 | 7 |
| 89 | Highly efficient and stable calcium looping based pre-combustion CO ₂ capture for high-purity H ₂ production. Materials Today Energy, 2019, 13, 233-238. | 4.7 | 13 |
| 90 | First-Principle Study on Heterofullerenes: Effective and Multifunctional in Hg Removal. Industrial & Engineering Chemistry Research, 2019, 58, 11101-11110. | 3.7 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 91 | C ₂ H ₂ Selective Hydrogenation over the M@Pd and M@Cu (M = Au, Ag, Cu, and) Tj ETQq1 1 0.784314 rgBT (Activity and Selectivity. Journal of Physical Chemistry C, 2019, 123, 16107-16117. | 3.1 | 15 |
| 92 | Catalytic synthesis of non-carbon fuel NH ₃ from easily available N ₂ and H ₂ O over FeO(100) surface: study of reaction mechanism using the density functional theory. New Journal of Chemistry, 2019, 43, 10066-10072. | 2.8 | 5 |
| 93 | Resolving a Decade-Long Question of Oxygen Defects in Raman Spectra of Ceria-Based Catalysts at Atomic Level. Journal of Physical Chemistry C, 2019, 123, 18889-18894. | 3.1 | 53 |
| 94 | A new and different insight into the promotion mechanisms of Ga for the hydrogenation of carbon dioxide to methanol over a Ga-doped Ni(211) bimetallic catalyst. Nanoscale, 2019, 11, 9969-9979. | 5.6 | 10 |
| 95 | Kinetics, thermodynamics, and physical characterization of corn stover (Zea mays) for solar biomass pyrolysis potential analysis. Bioresource Technology, 2019, 284, 466-473. | 9.6 | 92 |
| 96 | Networked H [∞] filtering for Takagi-Sugeno fuzzy systems under multi-output multi-rate sampling. Journal of the Franklin Institute, 2019, 356, 3661-3691. | 3.4 | 10 |
| 97 | Effect of CaO and biomass ash on catalytic hydrogasification behavior of coal char. Fuel, 2019, 249, 103-111. | 6.4 | 13 |
| 98 | A DFT study and microkinetic analysis of CO oxidation to dimethyl oxalate over Pd stripe and Pd single atom-doped Cu(111) surfaces. Applied Surface Science, 2019, 479, 1057-1067. | 6.1 | 10 |
| 99 | Surface modification of porous g-C ₃ N ₄ materials using a waste product for enhanced photocatalytic performance under visible light. Green Chemistry, 2019, 21, 5934-5944. | 9.0 | 31 |
| 100 | CO ₂ hydrogenation to high-value products via heterogeneous catalysis. Nature Communications, 2019, 10, 5698. | 12.8 | 571 |
| 101 | Temperature modulation of defects in NH ₂ -UiO-66(Zr) for photocatalytic CO ₂ reduction. RSC Advances, 2019, 9, 37733-37738. | 3.6 | 47 |
| 102 | A DFT study on dimethyl oxalate synthesis over PdML/Ni(1 ⁻ 1 ⁻) and PdML/Co(1 ⁻ 1 ⁻) surfaces. Applied Surface Science, 2019, 465, 498-508. | 6.1 | 9 |
| 103 | N-doped carbons with hierarchically micro- and mesoporous structure derived from sawdust for high performance supercapacitors. Microporous and Mesoporous Materials, 2019, 279, 323-333. | 4.4 | 50 |
| 104 | Facile synthesis of nitrogen-enriched nanoporous carbon materials for high performance supercapacitors. Journal of Colloid and Interface Science, 2019, 538, 199-208. | 9.4 | 52 |
| 105 | DFT study on CO oxidative coupling to DMO over Pd ₄ /TiO ₂ and Pd ₄ /TiO ₂ -Ov: A role of oxygen vacancy on support. Computational Materials Science, 2019, 159, 1-11. | 3.0 | 11 |
| 106 | Evaluation of natural goethite on the removal of arsenate and selenite from water. Journal of Environmental Sciences, 2019, 76, 133-141. | 6.1 | 42 |
| 107 | Coal and coal byproducts: A large and developable unconventional resource for critical materials " Rare earth elements. Journal of Rare Earths, 2018, 36, 337-338. | 4.8 | 30 |
| 108 | Catalytic Oxidation of Hydrogen Sulfide on Fe/WSAC Catalyst Surface Modification via NH ₃ -NTP: Influence of Gas Gap and Dielectric Thickness. Industrial & Engineering Chemistry Research, 2018, 57, 2873-2881. | 3.7 | 5 |

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|-----|---|------|-----------|
| 109 | Graphene: A review of applications in the petroleum industry. <i>Journal of Petroleum Science and Engineering</i> , 2018, 167, 152-159. | 4.2 | 49 |
| 110 | High efficient styrene mineralization through novel NiO-TiO ₂ -Al ₂ O ₃ packed pre-treatment/treatment/post-treatment dielectric barrier discharge plasma. <i>Chemical Engineering Journal</i> , 2018, 343, 759-769. | 12.7 | 32 |
| 111 | Characterization of Powder River Basin coal pyrolysis with cost-effective and environmentally-friendly composite Na Fe catalysts in a thermogravimetric analyzer and a fixed-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6918-6935. | 7.1 | 11 |
| 112 | Cost-effective Palladium-doped Cu Bimetallic Materials to Tune Selectivity and Activity by using Doped Atom Ensembles as Active Sites for Efficient Removal of Acetylene from Ethylene. <i>ChemCatChem</i> , 2018, 10, 2424-2432. | 3.7 | 27 |
| 113 | Selective photocatalytic carbon dioxide conversion with Pt@Ag-TiO ₂ nanoparticles. <i>Catalysis Communications</i> , 2018, 108, 98-102. | 3.3 | 20 |
| 114 | Hydrogen-Bonding Interactions in Pyridinium-Based Ionic Liquids and Dimethyl Sulfoxide Binary Systems: A Combined Experimental and Computational Study. <i>ACS Omega</i> , 2018, 3, 1823-1833. | 3.5 | 53 |
| 115 | Syngas Production from Chemical-looping Reforming of Methane Using Iron-doped Cerium Oxides. <i>Energy Technology</i> , 2018, 6, 1610-1617. | 3.8 | 11 |
| 116 | CO oxidative coupling to dimethyl oxalate over Pd-Me (Me = Cu, Al) catalysts: a combined DFT and kinetic study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7317-7332. | 2.8 | 22 |
| 117 | Novel Na ₂ SO ₄ @SiO ₂ phase change material with core-shell structures for high temperature thermal storage. <i>Solar Energy Materials and Solar Cells</i> , 2018, 178, 280-288. | 6.2 | 51 |
| 118 | NH ₃ molecule adsorption on spinel-type ZnFe ₂ O ₄ surface: A DFT and experimental comparison study. <i>Applied Surface Science</i> , 2018, 442, 778-786. | 6.1 | 27 |
| 119 | Progress in Nonoxidative Dehydroaromatization of Methane in the Last 6 Years. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1768-1789. | 3.7 | 97 |
| 120 | Thermodynamic and Kinetic Study on Carbon Dioxide Hydrogenation to Methanol over a Ga ₃ Ni ₅ (111) Surface: The Effects of Step Edge. <i>Journal of Physical Chemistry C</i> , 2018, 122, 315-330. | 3.1 | 26 |
| 121 | A DFT Study on the Catalytic CO Oxidative Coupling to Dimethyl Oxalate on Al-Doped Core-shell Pd Clusters. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1169-1179. | 3.1 | 20 |
| 122 | Improvement of H ₂ -rich gas production with tar abatement from pine wood conversion over bi-functional Ca ₂ Fe ₂ O ₅ catalyst: Investigation of inner-looping redox reaction and promoting mechanisms. <i>Applied Energy</i> , 2018, 212, 931-943. | 10.1 | 89 |
| 123 | Amine-impregnated silicic acid composite as an efficient adsorbent for CO ₂ capture. <i>Applied Energy</i> , 2018, 223, 293-301. | 10.1 | 37 |
| 124 | Single-atom silver-manganese nanocatalysts based on atom-economy design for reaction temperature-controlled selective hydrogenation of bioresources-derivable diethyl oxalate to ethyl glycolate and acetaldehyde diethyl acetal. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 348-354. | 20.2 | 21 |
| 125 | The effect of lanthanide promoters on Ni/Al/SiO ₂ catalyst for methanol synthesis. <i>Fuel</i> , 2018, 222, 513-522. | 6.4 | 17 |
| 126 | A novel solar powered biomass pyrolysis reactor for producing fuels and chemicals. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 132, 19-32. | 5.5 | 26 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 127 | Application of Ag/AgBr/GdVO ₄ composite photocatalyst in wastewater treatment. <i>Journal of Environmental Sciences</i> , 2018, 63, 68-75. | 6.1 | 48 |
| 128 | A new insight into the theoretical design of highly dispersed and stable ceria supported metal nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 775-783. | 9.4 | 8 |
| 129 | Silica aerogels formed from soluble silicates and methyl trimethoxysilane (MTMS) using CO ₂ gas as a gelation agent. <i>Ceramics International</i> , 2018, 44, 821-829. | 4.8 | 35 |
| 130 | A novel low-cost method of silica aerogel fabrication using fly ash and trona ore with ambient pressure drying technique. <i>Powder Technology</i> , 2018, 323, 310-322. | 4.2 | 66 |
| 131 | A method to explore the quantitative interactions between metal and ceria for M/CeO ₂ catalysts. <i>Surface Science</i> , 2018, 669, 79-86. | 1.9 | 7 |
| 132 | Ca ₂ Fe ₂ O ₅ : A promising oxygen carrier for CO/CH ₄ conversion and almost-pure H ₂ production with inherent CO ₂ capture over a two-step chemical looping hydrogen generation process. <i>Applied Energy</i> , 2018, 211, 431-442. | 10.1 | 119 |
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