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Recent Developments in Natural Gas Flaring Reduction and Reformation to Energy-Efficient Fuels: A Review

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#	Paper	IF	Citations
41	Catalytic ceramic oxygen ionic conducting membrane reactors for ethylene production. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 1327-1341	4.9	2
40	Investigating the Influential Effect of Etchant Time in Constructing 2D/2D HCN/MXene Heterojunction with Controlled Growth of TiO ₂ NPs for Stimulating Photocatalytic H ₂ Production. <i>Energy & Fuels</i> , 2021 , 35, 6807-6822	4.1	14
39	Constructing LaxCoyO ₃ Perovskite Anchored 3D g-C ₃ N ₄ Hollow Tube Heterojunction with Proficient Interface Charge Separation for Stimulating Photocatalytic H ₂ Production. <i>Energy & Fuels</i> , 2021 , 35, 9727-9746	4.1	12
38	Novel W-Shaped Oxygen Heterocycle-Fused Fluorene-Based Non-Fullerene Acceptors: First Theoretical Framework for Designing Environment-Friendly Organic Solar Cells. <i>Energy & Fuels</i> , 2021 , 35, 12436-12450	4.1	24
37	Hydroxyl-Assisted Hydrogen Transfer Interaction in Lignin Pyrolysis: An Extended Concerted Interaction Mechanism. <i>Energy & Fuels</i> , 2021 , 35, 13170-13180	4.1	2
36	Binary Ni ₂ P/Ti ₃ C ₂ Multilayer Cocatalyst Anchored TiO ₂ Nanocomposite with Etchant/Oxidation Grown TiO ₂ NPs for Enhancing Photocatalytic H ₂ Production. <i>Energy & Fuels</i> , 2021 , 35, 14197-14214	4.1	12
35	Liquefied Natural Gas for Superconducting Energy Pipelines: A Feasibility Study on Electrical Insulation. <i>Energy & Fuels</i> , 2021 , 35, 13930-13936	4.1	2
34	Investigating influential effect of methanol-phenol-steam mixture on hydrogen production through thermodynamic analysis with experimental evaluation. <i>International Journal of Energy Research</i> ,	4.5	3
33	Adsorption mechanism of sulphide gas molecules on Fe(111) surface: A density functional theory study. <i>Applied Surface Science</i> , 2021 , 563, 150376	6.7	1
32	Facile fabrication of well-designed 2D/2D porous g-C ₃ N ₄ /TiO ₂ nanocomposite for photocatalytic methane reforming (DRM) with CO ₂ towards enhanced syngas production under visible light. <i>Fuel</i> , 2021 , 305, 121558	7.1	8
31	State-of-the-art assessment of natural gas liquids recovery processes: Techno-economic evaluation, policy implications, open issues, and the way forward. <i>Energy</i> , 2022 , 238, 121684	7.9	1
30	Flare gas-to-power by direct intercooled oxy-combustion supercritical CO ₂ power cycles. <i>Fuel</i> , 2022 , 308, 121808	7.1	2
29	Effect of Carburization Conditions on the Activity of Molybdenum Carbide-Supported Catalysts Promoted by Nickel for the Dry Reforming of Methane. <i>Energy & Fuels</i> ,	4.1	2
28	A Mini Review of Biochemical Conversion of Algal Biorefinery. <i>Energy & Fuels</i> ,	4.1	5
27	Titanium Carbide MXene Nanostructures as Catalysts and Cocatalysts for Photocatalytic Fuel Production: A Review. <i>ACS Applied Nano Materials</i> , 2022 , 5, 18-54	5.6	6
26	Emerging chemo-biocatalytic routes for valorization of major greenhouse gases (GHG) into industrial products: A comprehensive review. <i>Journal of Industrial and Engineering Chemistry</i> , 2022 ,	6.3	4
25	CH ₄ valorisation reactions: A comparative thermodynamic analysis and their limitations. <i>Fuel</i> , 2022 , 320, 123877	7.1	0

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23	Progress in Development of Photocatalytic Processes for Synthesis of Fuels and Organic Compounds under Outdoor Solar Light.. <i>Energy & Fuels</i> , 2022 , 36, 4625-4639	4.1	2
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19	Optimization of Ni-Based Catalysts for Dry Reforming of Methane via Alloy Design: A Review. <i>Energy & Fuels</i> ,	4.1	2
18	Spectral Unmixing Based Approach for Measuring Gas Flaring from VIIRS NTL Remote Sensing Data: Case of the Flare FIT-M8-101A-1U, Algeria. <i>Remote Sensing</i> , 2022 , 14, 2305	5	2
17	Research on an internal combustion engine with an injected pre-chamber to operate with low methane number fuels for future gas flaring reduction. <i>Energy</i> , 2022 , 253, 124096	7.9	0
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15	Reusing Industrial Gaseous Emissions for Syngas Production. <i>Process Integration and Optimization for Sustainability</i> ,	2	
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11	Estimation of Greenhouse Gas Emissions from Iran's Gas Flaring by Using Satellite Data and Combustion Equations.		1
10	Improved hydrogen production performance of NiAl ₂ O ₃ /CaO-CaZrO ₃ composite catalyst for CO ₂ sorption enhanced CH ₄ /H ₂ O reforming. 2022 ,		0
9	Review on technologies for conversion of natural gas to methanol. 2022 , 108, 104845		0
8	Discrepancies in the current capabilities in measuring upstream flare volumes in the Permian Basin. 2022 , 100084		0
7	A techno-economic review of gas flaring in Iran and its human and environmental impacts. 2023 , 173, 642-665		0

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- 5 Thermal deactivation mechanism of the commercial Pt/Pd/Rh/CeO₂-ZrO₂/Al₂O₃ catalysts aged under different conditions for the aftertreatment of CNG-fueled vehicle exhaust. **2023**, 344, 128009 ○
- 4 Tuning Copper Active Site Composition in Cu-MOR through Co-Cation Modification for Methane Activation. **2023**, 13, 1906-1915 ○
- 3 Modification of Al₂O₃-based catalyst by rare earth elements for steam reforming of methane. ○
- 2 Constructing Highly Stable CoAl-LDH-Coupled g-C₃N₄ 2D/2D Heterojunctions for Solar Energy-Driven Conversion of Flared Gas to Syngas through Dry-/Bireforming of Methane. **2023**, 37, 5241-5256 ○
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