

Tan Ji Siang

List of Publications by Year in descending order

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43
papers

950
citations

430442

18
h-index

476904

29
g-index

44
all docs

44
docs citations

44
times ranked

742
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen production from CH ₄ dry reforming over bimetallic Ni-Co/Al ₂ O ₃ catalyst. Journal of the Energy Institute, 2018, 91, 683-694.	2.7	67
2	Combined steam and CO ₂ reforming of methane for syngas production over carbon-resistant boron-promoted Ni/SBA-15 catalysts. Microporous and Mesoporous Materials, 2018, 262, 122-132.	2.2	66
3	New insights on the effect of the H ₂ /CO ratio for enhancement of CO methanation over metal-free fibrous silica ZSM-5: Thermodynamic and mechanistic studies. Energy Conversion and Management, 2019, 199, 112056.	4.4	52
4	Dry reforming of methane to hydrogen-rich syngas over robust fibrous KCC-1 stabilized nickel catalyst with high activity and coke resistance. International Journal of Hydrogen Energy, 2020, 45, 18549-18561.	3.8	51
5	Microwave-assisted dry reforming of methane for syngas production: a review. Environmental Chemistry Letters, 2020, 18, 1987-2019.	8.3	51
6	Dry reforming of CH ₄ over stabilized Ni-La@KCC-1 catalyst: Effects of La promoter and optimization studies using RSM. Journal of CO ₂ Utilization, 2020, 37, 230-239.	3.3	46
7	Catalytic systems for enhanced carbon dioxide reforming of methane: a review. Environmental Chemistry Letters, 2021, 19, 2157-2183.	8.3	44
8	Hydrogen Production From Biogas Reforming: An Overview of Steam Reforming, Dry Reforming, Dual Reforming, and Tri-Reforming of Methane. , 2018, , 111-166.		43
9	Fibrous spherical Ni-M/ZSM-5 (M: Mg, Ca, Ta, Ga) catalysts for methane dry reforming: The interplay between surface acidity/basicity and coking resistance. International Journal of Energy Research, 2020, 44, 5696-5712.	2.2	42
10	Enhanced dry reforming of methane over mesostructured fibrous Ni/MFI zeolite: Influence of preparation methods. Journal of the Energy Institute, 2020, 93, 1535-1543.	2.7	40
11	Methane bi-reforming over boron-doped Ni/SBA-15 catalyst: Longevity evaluation. International Journal of Hydrogen Energy, 2019, 44, 20839-20850.	3.8	37
12	Boron-doped Ni/SBA-15 catalysts with enhanced coke resistance and catalytic performance for dry reforming of methane. Journal of the Energy Institute, 2020, 93, 31-42.	2.7	37
13	Thermodynamic equilibrium study of altering methane partial oxidation for Fischer-Tropsch synfuel production. Energy, 2020, 198, 117394.	4.5	32
14	Review on the catalytic tri-reforming of methane - Part I: Impact of operating conditions, catalyst deactivation and regeneration. Applied Catalysis A: General, 2021, 621, 118202.	2.2	32
15	Role of oxygen vacancies in dendritic fibrous M/KCC-1 (M= Ru, Pd, Rh) catalysts for methane partial oxidation to H ₂ -rich syngas production. Fuel, 2020, 278, 118360.	3.4	30
16	Hydrogen-rich Syngas Production from Ethanol Dry Reforming on La-doped Ni/Al ₂ O ₃ Catalysts: Effect of Promoter Loading. Procedia Engineering, 2016, 148, 654-661.	1.2	29
17	Tailoring Rh content on dendritic fibrous silica alumina catalyst for enhanced CO ₂ capture in catalytic CO ₂ methanation. Journal of Environmental Chemical Engineering, 2021, 9, 104616.	3.3	25
18	Unique structure of fibrous ZSM-5 catalyst expedited prolonged hydrogen atom restoration for selective production of propylene from methanol. International Journal of Hydrogen Energy, 2021, 46, 24652-24665.	3.8	25

#	ARTICLE	IF	CITATIONS
19	Production of hydrogen and value-added carbon materials by catalytic methane decomposition: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 2339-2359.	8.3	23
20	Zeolite and clay based catalysts for CO ₂ reforming of methane to syngas: A review. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 30759-30787.	3.8	19
21	CO ₂ reforming of methane over Ta-promoted Ni/ZSM-5 fibre-like catalyst: Insights on deactivation behavior and optimization using response surface methodology (RSM). <i>Chemical Engineering Science</i> , 2021, 231, 116320.	1.9	18
22	Ni@Pt/Al nano-sized catalyst supported on TNPs for hydrogen and valuable fuel production from the steam reforming of plastic waste dissolved in phenol. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22817-22832.	3.8	17
23	Effect of Ni-Ta ratio on the catalytic selectivity of fibrous Ni-Ta/ZSM-5 for dry reforming of methane. <i>Chemical Engineering Science</i> , 2020, 227, 115952.	1.9	17
24	Enhanced carbon resistance and regenerability in methane partial oxidation to syngas using oxygen vacancy-rich fibrous Pd, Ru and Rh/KCC-1 catalysts. <i>Environmental Chemistry Letters</i> , 2021, 19, 2733-2742.	8.3	17
25	Improvements in hydrogen production from methane dry reforming on filament-shaped mesoporous alumina-supported cobalt nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24781-24790.	3.8	16
26	Advanced catalysts and effect of operating parameters in ethanol dry reforming for hydrogen generation. A review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1695-1718.	8.3	15
27	Abundant Lewis acidic sites of peculiar fibrous silica zeolite X enhanced toluene conversion in side chain toluene methylation. <i>Fuel</i> , 2021, 305, 121432.	3.4	9
28	Recent Advances in Steam Reforming of Glycerol for Syngas Production. , 2020, , 399-425.		8
29	Thermodynamic sensitivity analysis of CO ₂ reforming of methane based on equilibrium predictions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 808, 012001.	0.3	7
30	Dendritic Mesoporous Ni/KCC-1 for Partial Oxidation of Methane to Syngas. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 808, 012006.	0.3	5
31	Bifunctional metal-free KAUST Catalysis Center 1 (KCC-1) as highly active catalyst for syngas production via methane partial oxidation. <i>Materials Today Chemistry</i> , 2022, 23, 100684.	1.7	5
32	Syngas Production from CO ₂ Reforming and CO ₂ -steam Reforming of Methane over Ni/Ce-SBA-15 Catalyst. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 206, 012017.	0.3	3
33	Catalytic performance of yttrium-doped co/mesoporous alumina catalysts for methane dry reforming. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	3
34	Catalytic partial oxidation of methane to syngas over perovskite catalysts. <i>E3S Web of Conferences</i> , 2019, 90, 01006.	0.2	3
35	A review on state-of-the-art catalysts for methane partial oxidation to syngas production. <i>Catalysis Reviews - Science and Engineering</i> , 2024, 66, 343-399.	5.7	3
36	Conversion of Biogas to Syngas via Catalytic Carbon Dioxide Reforming Reactions: An Overview of Thermodynamic Aspects, Catalytic Design, and Reaction Kinetics. , 2020, , 427-456.		2

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37	Mechanistic insight into low temperature toluene production via benzene methylation over mesopore-rich fibrous silica HZSM-5 zeolite. Journal of Porous Materials, 2021, 28, 1765.	1.3	2
38	Effect of ZSM-5 Acidity in Enhancement of Methanol-to-Olefins Process. Journal of Energy and Safety Technology (JEST), 2019, 2, .	0.1	2
39	Effect of transition metals (Mo, Mn and Co) on mesoporous ZSM-5 catalyst activity in carbon dioxide reforming of methane. IOP Conference Series: Materials Science and Engineering, 2020, 808, 012005.	0.3	1
40	Recent Advances in Hydrogen Production through Bi-Reforming of Biogas. , 2019, , 71-91.		1
41	Role of Promoters in Hoisting the Catalytic Performance for Enhanced CO Methanation. Journal of Energy and Safety Technology (JEST), 2019, 2, .	0.1	1
42	A Contemporary Assessment on Composite Titania onto Graphitic Carbon Nitride-Based Catalyst as Photocatalyst. Journal of Energy and Safety Technology (JEST), 2019, 2, .	0.1	1
43	Recent progress in ethanol steam reforming for hydrogen generation. , 2020, , 57-80.		0