Fagen Wang

List of Publications by Year
in descending order

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64 papers	3,365 citations	94433 37 h-index	144013 57 g-index
65 all docs	65 docs citations	65 times ranked	2791 citing authors

#	Article	IF	Citations
1	CO 2 reforming with methane over small-sized Ni@SiO 2 catalysts with unique features of sintering-free and low carbon. Applied Catalysis B: Environmental, 2018, 235, 26-35.	20.2	148
2	In-situ approach to fabricate BiOI photocathode with oxygen vacancies: Understanding the N2 reduced behavior in photoelectrochemical system. Chemical Engineering Journal, 2019, 362, 349-356.	12.7	121
3	Reducing carbon deposition and enhancing reaction stability by ceria for methane dry reforming over Ni@SiO2@CeO2 catalyst. Fuel, 2021, 291, 120182.	6.4	119
4	CO2 methanation over rare earth doped Ni based mesoporous catalysts with intensified low-temperature activity. International Journal of Hydrogen Energy, 2017, 42, 15523-15539.	7.1	105
5	Tuning the metal-support interaction in catalysts for highly efficient methane dry reforming reaction. Applied Catalysis B: Environmental, 2016, 180, 511-520.	20.2	103
6	Narrowing band gap energy of CeO2 in (Ni/CeO2)@SiO2 catalyst for photothermal methane dry reforming. Chemical Engineering Journal, 2021, 421, 129989.	12.7	103
7	Low Temperature CO₂ Reforming with Methane Reaction over CeO₂-Modified Ni@SiO₂ Catalysts. ACS Applied Materials & Interfaces, 2020, 12, 35022-35034.	8.0	99
8	Oxidative steam reforming of ethanol over Ir/CeO2 catalysts: A structure sensitivity analysis. Journal of Catalysis, 2012, 286, 137-152.	6.2	89
9	Hydrogen production from ethanol steam reforming in a micro-channel reactor. International Journal of Hydrogen Energy, 2010, 35, 1152-1159.	7.1	88
10	Ethanol steam reforming over Ni and Niâ€“Cu catalysts. Catalysis Today, 2009, 146, 31-36.	4.4	86
11	CO2 reforming with methane reaction over Ni@SiO2 catalysts coupled by size effect and metal-support interaction. Fuel, 2019, 256, 115954.	6.4	81
12	In-situ anchoring Ag through organic polymer for configuring efficient plasmonic BiVO4 photoanode. Chemical Engineering Journal, 2019, 358, 658-665.	12.7	81
13	CO2 methanation over Co Ni bimetal-doped ordered mesoporous Al2O3 catalysts with enhanced low-temperature activities. International Journal of Hydrogen Energy, 2018, 43, 17172-17184.	7.1	80
14	Effect of Calcination Temperature on the Performance of the Ni@SiO₂ Catalyst in Methane Dry Reforming. Industrial & Engineering Chemistry Research, 2020, 59, 13370-13379.	3.7	76
15	Autothermal reforming of ethanol for hydrogen production over an Rh/CeO2 catalyst. Catalysis Today, 2008, 138, 152-156.	4.4	75
16	Syngas production from CO2 reforming with methane over core-shell Ni@SiO2 catalysts. Journal of CO2 Utilization, 2016, 16, 318-327.	6.8	75
17	Enhanced catalytic performance of Ir catalysts supported on ceria-based solid solutions for methane dry reforming reaction. Catalysis Today, 2017, 281, 295-303.	4.4	75
18	Low temperature CO oxidation and CH4 combustion over Co3O4 nanosheets. Fuel, 2017, 203, 419-429.	6.4	72

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19	Organic-inorganic hybrid-photoanode built from NiFe-MOF and TiO2 for efficient PEC water splitting. Electrochimica Acta, 2020, 349, 136383.	5.2	72
20	CO2 methanation over Ca doped ordered mesoporous Ni-Al composite oxide catalysts: The promoting effect of basic modifier. Journal of CO2 Utilization, 2017, 21, 200-210.	6.8	68
21	Ni/SiO₂ Catalyst Prepared by Strong Electrostatic Adsorption for a Low-Temperature Methane Dry Reforming Reaction. Industrial & Engineering Chemistry Research, 2021, 60, 3324-3333.	3.7	67
22	Hydrogen production from ethanol steam reforming over Ir/CeO2 catalysts: Enhanced stability by PrOx promotion. International Journal of Hydrogen Energy, 2011, 36, 13566-13574.	7.1	65
23	Thermally stable Ir/Ce0.9La0.1O2 catalyst for high temperature methane dry reforming reaction. Nano Research, 2017, 10, 364-380.	10.4	61
24	Optimizing the Ni/Cu Ratio in Niâ€“Cu Nanoparticle Catalysts for Methane Dry Reforming. ACS Applied Nano Materials, 2021, 4, 5340-5348.	5.0	61
25	CO₂ methanation over a Ni based ordered mesoporous catalyst for the production of synthetic natural gas. RSC Advances, 2016, 6, 28489-28499.	3.6	58
26	Influence of Au particle size on Au/CeO2 catalysts for CO oxidation. Catalysis Today, 2011, 175, 541-545.	4.4	54
27	Embedded Ni catalysts in Ni-O-Ce solid solution for stable hydrogen production from ethanol steam reforming reaction. Fuel Processing Technology, 2019, 193, 94-101.	7.2	54
28	Alkaline-promoted Co-Ni bimetal ordered mesoporous catalysts with enhanced coke-resistant performance toward CO 2 reforming of CH 4. Journal of CO2 Utilization, 2017, 18, 1-14.	6.8	52
29	Understanding the key role of vanadium in p-type BiVO4 for photoelectrochemical N2 fixation. Chemical Engineering Journal, 2021, 414, 128773.	12.7	50
30	Alkaline-promoted Ni based ordered mesoporous catalysts with enhanced low-temperature catalytic activity toward CO₂ methanation. RSC Advances, 2017, 7, 18199-18210.	3.6	46
31	Heterojunction composites of g-C3N4/KNbO3 enhanced photocatalytic properties for water splitting. International Journal of Hydrogen Energy, 2018, 43, 16566-16572.	7.1	46
32	Performance enhancement of methane dry reforming reaction for syngas production over Ir/Ce0.9La0.1O2-nanorods catalysts. Catalysis Today, 2020, 355, 502-511.	4.4	46
33	Confining Ni and ceria in silica shell as synergistic multifunctional catalyst for methane dry reforming reaction. Journal of Power Sources, 2021, 506, 230232.	7.8	46
34	Study on different CeO2 structure stability during ethanol steam reforming reaction over Ir/CeO2 nanocatalysts. Applied Catalysis A: General, 2018, 564, 226-233.	4.3	44
35	Constructing highly dispersed Ni based catalysts supported on fibrous silica nanosphere for low-temperature CO2 methanation. Fuel, 2020, 278, 118333.	6.4	43
36	One-step synthesis of ordered mesoporous CoAl₂O₄ spinel-based metal oxides for CO₂ reforming of CH₄. RSC Advances, 2015, 5, 48256-48268.	3.6	41

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37	Alloying Niâ€“Cu Nanoparticles Encapsulated in SiO₂ Nanospheres for Synergistic Catalysts in CO₂ Reforming with Methane Reaction. ACS Applied Materials & Interfaces, 2022, 14, 23487-23495.	8.0	39
38	Ageing analysis of a model Ir/CeO2 catalyst in ethanol steam reforming. Applied Catalysis B: Environmental, 2012, 125, 546-555.	20.2	37
39	Low temperature CO catalytic oxidation over supported Pdâ€“Cu catalysts calcined at different temperatures. Chemical Engineering Journal, 2014, 242, 10-18.	12.7	37
40	Syngas production from methane steam reforming and dry reforming reactions over sintering-resistant Ni@SiO2 catalyst. Research on Chemical Intermediates, 2020, 46, 1735-1748.	2.7	37
41	Carbon Dioxide Reforming of Methane over Cobaltâ€Nickel Bimetalâ€Doped Ordered Mesoporous Alumina Catalysts with Advanced Catalytic Performances. ChemCatChem, 2016, 8, 2536-2548.	3.7	36
42	Boosting Water Splitting Performance of BiVO₄ Photoanode through Selective Surface Decoration of Ag₂S. ChemCatChem, 2018, 10, 4927-4933.	3.7	35
43	Amorphous MnCO₃/C Double Layers Decorated on BiVO₄ Photoelectrodes to Boost Nitrogen Reduction. ACS Applied Materials & Interfaces, 2020, 12, 52763-52770.	8.0	35
44	Ag-Pi/BiVO4 heterojunction with efficient interface carrier transport for photoelectrochemical water splitting. Journal of Colloid and Interface Science, 2020, 579, 619-627.	9.4	35
45	Design Strategy, Synthesis, and Mechanism of Ni Catalysts for Methane Dry Reforming Reaction: Recent Advances and Future Perspectives. Energy & Fuels, 2022, 36, 5594-5621.	5.1	35
46	Reasonable regulation of kinetics over BiVO4 photoanode by Feâ€“CoP catalysts for boosting photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2019, 44, 28184-28193.	7.1	33
47	Ammonia from Photothermal N₂ Hydrogenation over Ni/TiO₂ Catalysts under Mild Conditions. ACS Sustainable Chemistry and Engineering, 2022, 10, 115-123.	6.7	33
48	From mechanistic to kinetic analyses of ethanol steam reforming over Ir/CeO 2 catalyst. International Journal of Hydrogen Energy, 2014, 39, 18005-18015.	7.1	32
49	Flame Reduced TiO₂ Nanorod Arrays with Ag Nanoparticle Decoration for Efficient Solar Water Splitting. Industrial & Engineering Chemistry Research, 2019, 58, 4818-4827.	3.7	32
50	Room temperature HCHO oxidation over the Pt/CeO2 catalysts with different oxygen mobilities by changing ceria shapes. Applied Catalysis A: General, 2022, 630, 118469.	4.3	31
51	Ultra-small CeO₂ nanoparticles supported on SiO₂ for indoor formaldehyde oxidation at low temperature. Catalysis Science and Technology, 2020, 10, 6701-6712.	4.1	25
52	CeO₂ Nanorods Decorated with Pt Nanoparticles as Catalysts for Oxidative Elimination of Formaldehyde. ACS Applied Nano Materials, 2022, 5, 10036-10046.	5.0	24
53	Preparation of Palladium Supported on Ferric Oxide Nano-catalysts for Carbon Monoxide Oxidation in Low Temperature. Nano-Micro Letters, 2014, 6, 233-241.	27.0	23
54	Efficient elimination of formaldehyde over Pt/Fe3O4 catalyst at room temperature. Journal of Environmental Chemical Engineering, 2020, 8, 104041.	6.7	23

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55	Catalytic oxidation of low-concentration CO at ambient temperature over supported Pdâ€'Cu catalysts. Environmental Technology (United Kingdom), 2014, 35, 347-354.	2.2	21
56	In Situ Decorating Coordinatively Unsaturated Fe Sites for Boosting Water Oxidation Performance of TiO 2 Photoanode. Energy Technology, 2019, 7, 1801128.	3.8	20
57	Effects of the fabrication strategy on the catalytic performances of Coâ€"Ni bimetal ordered mesoporous catalysts toward CO₂ methanation. Sustainable Energy and Fuels, 2019, 3, 3038-3049.	4.9	19
58	Facilely fabricating mesoporous nanocrystalline Ceâ€"Zr solid solution supported CuO-based catalysts with advanced low-temperature activity toward CO oxidation. Catalysis Science and Technology, 2019, 9, 5605-5625.	4.1	19
59	Comparison of the Promoted CuZnMxOy (M: Ga, Fe) Catalysts for CO2 Hydrogenation to Methanol. Catalysis Letters, 2019, 149, 2508-2518.	2.6	16
60	CO Oxidation over Metal Oxide (La2O3, Fe2O3, PrO2, Sm2O3, and MnO2) Doped CuO-Based Catalysts Supported on Mesoporous Ce0.8Zr0.2O2 with Intensified Low-Temperature Activity. Catalysts, 2019, 9, 724.	3.5	14
61	Ni-MOF in-situ Decorating ZnO photoelectrode for photoelectrochemical water splitting. Functional Materials Letters, 2018, 11, 1850085.	1.2	12
62	Confined growth of Coâ€"Pi co-catalyst by organic semiconductor polymer for boosting the photoelectrochemical performance of BiVO₄. New Journal of Chemistry, 2019, 43, 8160-8167.	2.8	9
63	Preparation of WO3 thin films by dip film-drawing for photoelectrochemical performance. Chinese Journal of Chemical Engineering, 2019, 27, 1207-1211.	3.5	2
64	Rh/CeO2-SiC as a catalyst in partial oxidation of ethanol for hydrogen production. Chinese Journal of Catalysis, 2014, 34, 257-262.	14.0	0