

Yanwei Zhang

List of Publications by Year in descending order

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58
papers

1,482
citations

331670

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docs citations

58
times ranked

1264
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of microwave irradiation treatment on physicochemical characteristics of Chinese low-rank coals. <i>Energy Conversion and Management</i> , 2013, 71, 84-91.	9.2	189
2	Photothermal Coupling Factor Achieving CO ₂ Reduction Based on Palladium-Nanoparticle-Loaded TiO ₂ . <i>ACS Catalysis</i> , 2018, 8, 6582-6593.	11.2	124
3	Influence of the hydrothermal dewatering on the combustion characteristics of Chinese low-rank coals. <i>Applied Thermal Engineering</i> , 2015, 90, 174-181.	6.0	86
4	Enhanced mechanism of the photo-thermochemical cycle based on effective Fe-doping TiO ₂ films and DFT calculations. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 324-334.	20.2	75
5	Photothermal Chemistry Based on Solar Energy: From Synergistic Effects to Practical Applications. <i>Advanced Science</i> , 2022, 9, e2103926.	11.2	61
6	A novel photo-thermochemical cycle for the dissociation of CO ₂ using solar energy. <i>Applied Energy</i> , 2015, 156, 223-229.	10.1	49
7	Effect of hydrothermal dewatering on the pyrolysis characteristics of Chinese low-rank coals. <i>Applied Thermal Engineering</i> , 2018, 141, 70-78.	6.0	48
8	Effect of preparation method on platinum-ceria catalysts for hydrogen iodide decomposition in sulfur-iodine cycle. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 602-607.	7.1	47
9	Metal Oxides as Catalysts for Boron Oxidation. <i>Journal of Propulsion and Power</i> , 2014, 30, 47-53.	2.2	45
10	Guiding effective nanostructure design for photo-thermochemical CO ₂ conversion: From DFT calculations to experimental verifications. <i>Nano Energy</i> , 2017, 41, 308-319.	16.0	41
11	Pyrolysis Characteristics and Evolution of Char Structure during Pulverized Coal Pyrolysis in Drop Tube Furnace: Influence of Temperature. <i>Energy & Fuels</i> , 2017, 31, 4799-4807.	5.1	40
12	A novel thermochemical cycle for the dissociation of CO ₂ and H ₂ O using sustainable energy sources. <i>Applied Energy</i> , 2013, 108, 1-7.	10.1	33
13	A novel photo-thermochemical cycle of water-splitting for hydrogen production based on TiO _{2-x} /TiO ₂ . <i>International Journal of Hydrogen Energy</i> , 2016, 41, 2215-2221.	7.1	33
14	Detailed kinetic modeling of homogeneous H ₂ SO ₄ decomposition in the sulfur-iodine cycle for hydrogen production. <i>Applied Energy</i> , 2014, 130, 396-402.	10.1	31
15	Thermal decomposition and combustion characteristics of Al/AP/HTPB propellant. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 3935-3944.	3.6	30
16	Hydrogen iodide decomposition over nickel-ceria catalysts for hydrogen production in the sulfur-iodine cycle. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 5477-5483.	7.1	28
17	Catalytic Thermal Decomposition of Hydrogen Iodide in Sulfur-iodine Cycle for Hydrogen Production. <i>Energy & Fuels</i> , 2008, 22, 1227-1232.	5.1	27
18	Electrochemical investigation of the Bunsen reaction in the sulfur-iodine cycle. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14391-14401.	7.1	25

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19	Catalytic performance of different carbon materials for hydrogen production in sulfur-iodine thermochemical cycle. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 413-422.	20.2	25
20	Catalytic decomposition of sulfuric acid over CuO/CeO ₂ in the sulfur-iodine cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2099-2106.	7.1	23
21	Electrolysis of the Bunsen Reaction and Properties of the Membrane in the Sulfur-Iodine Thermochemical Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 13581-13588.	3.7	22
22	Effect of raw material sources on activated carbon catalytic activity for HI decomposition in the sulfur-iodine thermochemical cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7854-7860.	7.1	21
23	Visible light-responding perovskite oxide catalysts for photo-thermochemical CO ₂ reduction. <i>Catalysis Communications</i> , 2020, 138, 105955.	3.3	21
24	Photothermal Catalysis for Selective CO ₂ Reduction on the Modified Anatase TiO ₂ (101) Surface. <i>ACS Applied Energy Materials</i> , 2021, 4, 7702-7709.	5.1	21
25	Catalytic performance and durability of Ni/AC for HI decomposition in sulfur-iodine thermochemical cycle for hydrogen production. <i>Energy Conversion and Management</i> , 2016, 117, 520-527.	9.2	19
26	Pathway Alteration of Water Splitting via Oxygen Vacancy Formation on Anatase Titanium Dioxide in Photothermal Catalysis. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26214-26221.	3.1	19
27	Standalone Solar Carbon-Based Fuel Production Based on Semiconductors. <i>Cell Reports Physical Science</i> , 2020, 1, 100101.	5.6	18
28	Exergy of Blackbody Radiation and Monochromatic Photon. <i>International Journal of Thermophysics</i> , 2017, 38, 1.	2.1	17
29	Accelerating photoelectric CO ₂ conversion with a photothermal wavelength-dependent plasmonic local field. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120533.	20.2	17
30	Electrochemical characterization of electrodes in the electrochemical Bunsen reaction of the sulfur-iodine cycle. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7216-7224.	7.1	16
31	Thermal efficiency evaluation of a ZnSI thermochemical cycle for CO ₂ conversion and H ₂ production - Complete system. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6004-6012.	7.1	15
32	SO ₃ decomposition over CuO-CeO ₂ based catalysts in the sulfur-iodine cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14876-14884.	7.1	15
33	HI Decomposition over Carbon-Based and Ni-Impregnated Catalysts of the Sulfur-Iodine Cycle for Hydrogen Production. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1498-1504.	3.7	13
34	Catalytic performance of semi-coke on hydrogen iodide decomposition in sulfur-iodine thermochemical cycle for carbon dioxide-free hydrogen production. <i>Energy Conversion and Management</i> , 2018, 173, 659-664.	9.2	13
35	High-Performance Pt Catalyst with Graphene/Carbon Black as a Hybrid Support for SO ₂ Electrochemical Oxidation. <i>Langmuir</i> , 2020, 36, 20-27.	3.5	13
36	Performance of the Electrochemical Bunsen Reaction Using Two Different Proton Exchange Membranes in the Sulfur-Iodine Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 4966-4974.	3.7	12

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37	Carbon membrane performance on hydrogen separation in H ₂ H ₂ O HI gaseous mixture system in the sulfur-iodine thermochemical cycle. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3708-3715.	7.1	12
38	Enhanced defect-water hydrogen evolution method for efficient solar utilization: Photo-thermal chemical coupling on oxygen vacancy. <i>Chemical Engineering Journal</i> , 2021, 408, 127248.	12.7	12
39	Photothermal Catalytic Water Splitting at Diverse Two-Phase Interfaces Based on Cu@TiO ₂ . <i>ACS Applied Energy Materials</i> , 2022, 5, 4564-4576.	5.1	12
40	The Influence of Anionic Additives on the Microwave Dehydration Process of Lignite. <i>Energy & Fuels</i> , 2020, 34, 9401-9410.	5.1	11
41	Introduction and preliminary testing of a 5Âm ³ /h hydrogen production facility by Iodine@Sulfur thermochemical process. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 25117-25129.	7.1	11
42	Effect of iodine precipitation on HI separation subsection in sulfur-iodine cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 10896-10904.	7.1	9
43	Effects of Nafion content in membrane electrode assembly on electrochemical Bunsen reaction in high electrolyte acidity. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11646-11654.	7.1	9
44	Efficient CO ₂ reduction with H ₂ O via photothermal chemical reaction based on Au-MgO dual catalytic site on TiO ₂ . <i>Journal of CO₂ Utilization</i> , 2022, 55, 101801.	6.8	9
45	Equilibrium potential for the electrochemical Bunsen reaction in the sulfur@iodine cycle. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18727-18733.	7.1	8
46	Study on CuO-CeO ₂ /SiC catalysts in the sulfur-iodine cycle for hydrogen production. <i>International Journal of Energy Research</i> , 2016, 40, 1062-1072.	4.5	8
47	Study of the mechanism of the catalytic decomposition of hydrogen iodide (HI) over carbon materials for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4977-4986.	7.1	7
48	Influence of catalyst coated membranes on electrochemical bunsen reaction in the sulfur-iodine cycle. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 9735-9742.	7.1	7
49	Enhanced Solar Conversion of CO ₂ to CO Using Mn@doped TiO ₂ Based on Photo@thermochemical Cycle. <i>ChemistrySelect</i> , 2019, 4, 236-244.	1.5	7
50	Splitting of CO ₂ via the Heterogeneous Oxidation of Zinc Powder in Thermochemical Cycles. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 534-542.	3.7	6
51	H ₂ SO ₄ poisoning of Ru-based and Ni-based catalysts for HI decomposition in Sulfur Iodine cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 9771-9778.	7.1	6
52	A review on fundamental research of oxy-coal combustion technology. <i>Thermal Science</i> , 2022, 26, 1945-1958.	1.1	4
53	Theoretical Study of Oxygen Vacancy on Indium Oxide for Promoted Photothermal Catalytic Water Splitting. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19294-19300.	3.1	4
54	United Conversion Process Coupling CO ₂ Mineralization with Thermochemical Hydrogen Production. <i>Environmental Science & Technology</i> , 2019, 53, 12091-12100.	10.0	3

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55	A novel power generation system based on the cascade utilization of coal: concept and preliminary experimental results. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 1955-1962.	2.3	2
56	Catalyst Screening and Development for HI Decomposition in Sulfur-iodine Thermochemical Cycle for Hydrogen Production. <i>Chemistry Letters</i> , 2018, 47, 700-703.	1.3	2
57	Elaborated Reaction Pathway of Photothermal Catalytic CO ₂ Conversion with H ₂ O on Gallium Oxide-Decorated and -Defective Surfaces. <i>Chemistry - A European Journal</i> , 2022, , .	3.3	1
58	Chromium Copper Catalysts for LiClO ₄ Decomposition. <i>Propellants, Explosives, Pyrotechnics</i> , 2015, 40, 531-538.	1.6	0