

Yong He

List of Publications by Year in descending order

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papers

2,548
citations

236925

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docs citations

83
times ranked

1658
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Study of Four Chemometric Methods for the Quantitative Analysis of the Carbon Content in Coal by Laser-Induced Breakdown Spectroscopy Technology. ACS Omega, 2022, 7, 9443-9451.	3.5	2
2	Catalytic Decomposition of Residual Ozone over Cactus-like MnO ₂ Nanosphere: Synergistic Mechanism and SO ₂ /H ₂ O Interference. ACS Omega, 2022, 7, 9818-9833.	3.5	11
3	Reactions and transformations of mineral matters during entrained flow coal gasification using oxygen-enriched air. Journal of the Energy Institute, 2022, 102, 229-239.	5.3	5
4	LCA comparison analysis for two types of H ₂ carriers: Methanol and ammonia. International Journal of Energy Research, 2022, 46, 11818-11833.	4.5	5
5	Introduction and preliminary testing of a 5Âm ³ /h hydrogen production facility by Iodineâ€“Sulfur thermochemical process. International Journal of Hydrogen Energy, 2022, 47, 25117-25129.	7.1	11
6	Uniqueness and similarity in flame propagation of pre-dissociated NH ₃ +Air and NH ₃ +H ₂ +Air mixtures: An experimental and modelling study. Fuel, 2022, 327, 125159.	6.4	9
7	A projection procedure to obtain adiabatic flames from non-adiabatic flames using heat flux method. Proceedings of the Combustion Institute, 2021, 38, 2143-2151.	3.9	3
8	Effects of gas preheat temperature on soot formation in co-flow methane and ethylene diffusion flames. Proceedings of the Combustion Institute, 2021, 38, 1225-1232.	3.9	15
9	Experimental and kinetic modeling study of NO formation in premixed CH ₄ +O ₂ +N ₂ flames. Combustion and Flame, 2021, 223, 349-360.	5.2	33
10	Interplay effect on simultaneous catalytic oxidation of NO and toluene over different crystal types of MnO ₂ catalysts. Proceedings of the Combustion Institute, 2021, 38, 5433-5441.	3.9	20
11	Demetallized Pt _x Ni _y /C catalyst for SO ₂ electrochemical oxidation in the SI/HS hydrogen production cycles. International Journal of Hydrogen Energy, 2021, 46, 10161-10171.	7.1	10
12	Impact of Pyrolysis Products on n-Decane Laminar Flame Speeds Investigated through Experimentation and Kinetic Simulations. Energy & Fuels, 2021, 35, 8194-8204.	5.1	2
13	Experimental and kinetic study on the laminar burning velocities of NH ₃ mixing with CH ₃ OH and C ₂ H ₅ OH in premixed flames. Combustion and Flame, 2021, 229, 111392.	5.2	93
14	Interactive Effects in Two-Droplets Combustion of RP-3 Kerosene under Sub-Atmospheric Pressure. Processes, 2021, 9, 1229.	2.8	7
15	Structure and combustion characteristics of semi-cookes from a pilot-scale entrained flow gasifier using oxygen-enriched air. Journal of the Energy Institute, 2021, 97, 80-91.	5.3	17
16	Effects of the Gas Preheat Temperature and Nitrogen Dilution on Soot Formation in Co-flow Methane, Ethane, and Propane Diffusion Flames. Energy & Fuels, 2021, 35, 7169-7178.	5.1	11
17	Investigation of Hydrogen Content and Dilution Effect on Syngas/Air Premixed Turbulent Flame Using OH Planar Laser-Induced Fluorescence. Processes, 2021, 9, 1894.	2.8	4
18	Effects of CO ₂ Dilution and CH ₄ Addition on Laminar Burning Velocities of Syngas at Elevated Pressures: An Experimental and Modeling Study. Energy & Fuels, 2021, 35, 18733-18745.	5.1	5

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19	Decomposition of N ₂ O on ZIF-67-Derived Co/CoO _x @Carbon Catalysts and SO ₂ Interference. <i>Energy & Fuels</i> , 2021, 35, 18664-18679.	5.1	4
20	Laminar burning velocities of CH ₄ /O ₂ /N ₂ and oxygen-enriched CH ₄ /O ₂ /CO ₂ flames at elevated pressures measured using the heat flux method. <i>Fuel</i> , 2020, 259, 116152.	6.4	48
21	Flue gas treatment with ozone oxidation: An overview on NO _x , organic pollutants, and mercury. <i>Chemical Engineering Journal</i> , 2020, 382, 123030.	12.7	129
22	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
23	Ru@Pt/C core-shell catalyst for SO ₂ electrocatalytic oxidation in electrochemical Bunsen reaction. <i>Electrochimica Acta</i> , 2020, 331, 135315.	5.2	10
24	Experimental and kinetic modeling study of laminar burning velocities of NH ₃ /syngas/air premixed flames. <i>Combustion and Flame</i> , 2020, 213, 1-13.	5.2	140
25	Experimental study and kinetic analysis of the laminar burning velocity of NH ₃ /syngas/air, NH ₃ /CO/air and NH ₃ /H ₂ /air premixed flames at elevated pressures. <i>Combustion and Flame</i> , 2020, 221, 270-287.	5.2	141
26	High-temperature pyrolysis behavior of two different rank coals in fixed-bed and drop tube furnace reactors. <i>Journal of the Energy Institute</i> , 2020, 93, 2271-2279.	5.3	20
27	Kinetics and Mechanisms of Metal Chlorides Catalysis for Coal Char Gasification with CO ₂ . <i>Catalysts</i> , 2020, 10, 715.	3.5	4
28	SO ₂ Electrochemical Oxidation Properties of Pt-Ru/C Bimetallic Catalysts with Different Nanostructures. <i>Langmuir</i> , 2020, 36, 3111-3118.	3.5	5
29	Temperature dependence of the laminar burning velocity for n-heptane and iso-octane/air flames. <i>Fuel</i> , 2020, 276, 118007.	6.4	17
30	Investigation of flame and burner plate interaction during the heat flux method used for laminar burning velocity measurement. <i>Fuel</i> , 2020, 266, 117051.	6.4	4
31	Low temperature catalytic ozonation of toluene in flue gas over Mn-based catalysts: Effect of support property and SO ₂ /water vapor addition. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118662.	20.2	93
32	Investigation of Dilution Effect on CH ₄ /Air Premixed Turbulent Flame Using OH and CH ₂ O Planar Laser-Induced Fluorescence. <i>Energies</i> , 2020, 13, 325.	3.1	1
33	Experimental and numerical study of the effect of elevated pressure on laminar burning velocity of lean H ₂ /CO/O ₂ /diluent flames. <i>Fuel</i> , 2020, 273, 117753.	6.4	16
34	Characteristics of temperature distribution in atmospheric pulsed surface dielectric barrier discharge for ozone production. <i>Vacuum</i> , 2020, 176, 109351.	3.5	11
35	The temperature dependence of the laminar burning velocity and superadiabatic flame temperature phenomenon for NH ₃ /air flames. <i>Combustion and Flame</i> , 2020, 217, 314-320.	5.2	81
36	Metal chloride influence on syngas component during coal pyrolysis in fixed-bed and entrained flow drop-tube furnace. <i>Science China Technological Sciences</i> , 2019, 62, 2029-2037.	4.0	4

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37	Catalytic Effect of Metal Chloride Additives on the Volatile Gas Release Characteristics for High-Temperature Lignite Pyrolysis. <i>Energy & Fuels</i> , 2019, 33, 9437-9445.	5.1	12
38	NO _x Reduction in a 130 t/h Biomass-Fired Circulating Fluid Bed Boiler Using Coupled Ozonation and Wet Absorption Technology. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18134-18140.	3.7	9
39	Hydrogen Sulfide Promotes Cell Division and Photosynthesis of <i>Nannochloropsis oceanica</i> with 15% Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16344-16354.	6.7	15
40	Over-rich combustion of CH ₄ , C ₂ H ₆ , and C ₃ H ₈ +air premixed flames investigated by the heat flux method and kinetic modeling. <i>Combustion and Flame</i> , 2019, 210, 339-349.	5.2	23
41	Experimental and kinetic modeling study of laminar burning velocities of NH ₃ /air, NH ₃ /H ₂ /air, NH ₃ /CO/air and NH ₃ /CH ₄ /air premixed flames. <i>Combustion and Flame</i> , 2019, 206, 214-226.	5.2	353
42	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
43	Investigation of NO Removal with Ozone Deep Oxidation in Na ₂ CO ₃ Solution. <i>Energy & Fuels</i> , 2019, 33, 4454-4461.	5.1	24
44	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
45	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
46	High-temperature pyrolysis behavior of a bituminous coal in a drop tube furnace and further characterization of the resultant char. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 137, 163-170.	5.5	18
47	Parametrization of the temperature dependence of laminar burning velocity for methane and ethane flames. <i>Fuel</i> , 2019, 239, 1028-1037.	6.4	57
48	Combined conventional thermal and microwave drying process for typical Chinese lignite. <i>Drying Technology</i> , 2019, 37, 813-823.	3.1	9
49	Effects of Hydrothermal Modification on Sulfur Release of Low-Quality Coals During Thermal Transformation Process. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018, 140, .	2.3	5
50	The Benefits of Small Quantities of Nitrogen in the Oxygen Feed to Ozone Generators. <i>Ozone: Science and Engineering</i> , 2018, 40, 313-320.	2.5	6
51	Ozone Production Influenced by Increasing Gas Pressure in Multichannel Dielectric Barrier Discharge for Positive and Negative Pulse Modes. <i>Ozone: Science and Engineering</i> , 2018, 40, 228-236.	2.5	7
52	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
53	Morphological Characteristics of Chars Obtained from Low-Temperature Pyrolysis of Pulverized Lignite. <i>Journal of Energy Engineering - ASCE</i> , 2018, 144, 04018016.	1.9	6
54	Volatile gas release characteristics of three typical Chinese coals under various pyrolysis conditions. <i>Journal of the Energy Institute</i> , 2018, 91, 1045-1056.	5.3	23

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55	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
56	In Situ Measurements of the Release Characteristics and Catalytic Effects of Different Chemical Forms of Sodium during Combustion of Zhundong Coal. <i>Energy & Fuels</i> , 2018, 32, 6595-6602.	5.1	22
57	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
58	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
59	Ozone Production with Dielectric Barrier Discharge from Air: The Influence of Pulse Polarity. <i>Ozone: Science and Engineering</i> , 2018, 40, 494-502.	2.5	26
60	Catalytic effect of metal chlorides on coal pyrolysis and gasification part 1. Effects of acid washing on coal characteristics. <i>Thermochimica Acta</i> , 2018, 666, 41-50.	2.7	35
61	Quantitative Measurement of Atomic Potassium in Plumes over Burning Solid Fuels Using Infrared-Diode Laser Spectroscopy. <i>Energy & Fuels</i> , 2017, 31, 2831-2837.	5.1	34
62	Effects of CH ₄ Content on NO Formation in One-Dimensional Adiabatic Flames Investigated by Saturated Laser-Induced Fluorescence and CHEMKIN Modeling. <i>Energy & Fuels</i> , 2017, 31, 3154-3163.	5.1	9
63	In vivo kinetics of lipids and astaxanthin evolution in <i>Haematococcus pluvialis</i> mutant under 15% CO ₂ using Raman microspectroscopy. <i>Bioresource Technology</i> , 2017, 244, 1439-1444.	9.6	37
64	Characteristics of Dielectric Barrier Discharge Ozone Synthesis for Different Pulse Modes. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 1165-1173.	2.4	26
65	Catalyst tolerance to SO ₂ and water vapor of Mn based bimetallic oxides for NO deep oxidation by ozone. <i>RSC Advances</i> , 2017, 7, 25132-25143.	3.6	8
66	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
67	Multi-stage semi-coke activation for the removal of SO ₂ and NO. <i>Fuel</i> , 2017, 210, 738-747.	6.4	54
68	Catalytic effect of metal chlorides on coal pyrolysis and gasification part I. Combined TG-FTIR study for coal pyrolysis. <i>Thermochimica Acta</i> , 2017, 655, 331-336.	2.7	61
69	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
70	Transcriptome and key genes expression related to carbon fixation pathways in <i>Chlorella</i> PY-ZU1 cells and their growth under high concentrations of CO ₂ . <i>Biotechnology for Biofuels</i> , 2017, 10, 181.	6.2	58
71	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
72	Pyrolysis behavior of a typical Chinese sub-bituminous Zhundong coal from moderate to high temperatures. <i>Fuel</i> , 2016, 185, 701-708.	6.4	100

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73	Effects of Microwave Irradiation on Combustion and Sodium Release Characteristics of Zhundong Lignite. <i>Energy & Fuels</i> , 2016, 30, 8977-8984.	5.1	14
74	Influences of Hydrothermal Modification on Nitrogen Thermal Conversion of Low-Rank Coals. <i>Energy & Fuels</i> , 2016, 30, 8125-8133.	5.1	8
75	Gasification characteristics of different rank coals at H ₂ O and CO ₂ atmospheres. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 122, 76-83.	5.5	20
76	Ozone production in parallel multichannel dielectric barrier discharge from oxygen and air: the influence of gas pressure. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 455203.	2.8	43
77	N ₂ O ₅ Formation Mechanism during the Ozone-Based Low-Temperature Oxidation deNO _x Process. <i>Energy & Fuels</i> , 2016, 30, 5101-5107.	5.1	51
78	Characteristics of O ₃ Oxidation for Simultaneous Desulfurization and Denitration with Limestone-Gypsum Wet Scrubbing: Application in a Carbon Black Drying Kiln Furnace. <i>Energy & Fuels</i> , 2016, 30, 2302-2308.	5.1	59
79	Catalytic oxidation of NO by O ₂ over CeO ₂ -MnO _x : SO ₂ poisoning mechanism. <i>RSC Advances</i> , 2016, 6, 31422-31430.	3.6	38
80	Pyrolysis Characteristics of Coal, Biomass, and Coal-Biomass Blends under High Heating Rate Conditions: Effects of Particle Diameter, Fuel Type, and Mixing Conditions. <i>Energy & Fuels</i> , 2015, 29, 5036-5046.	5.1	25
81	Challenge of coal combustion and technology development for Multi-pollutant emission control. <i>The Proceedings of the International Conference on Power Engineering (ICOPE)</i> , 2015, 2015.12, C1-C18.	0.0	0
82	Effects of CO content on laminar burning velocity of typical syngas by heat flux method and kinetic modeling. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9534-9544.	7.1	44
83	Investigation of laminar flame speeds of typical syngas using laser based Bunsen method and kinetic simulation. <i>Fuel</i> , 2012, 95, 206-213.	6.4	73