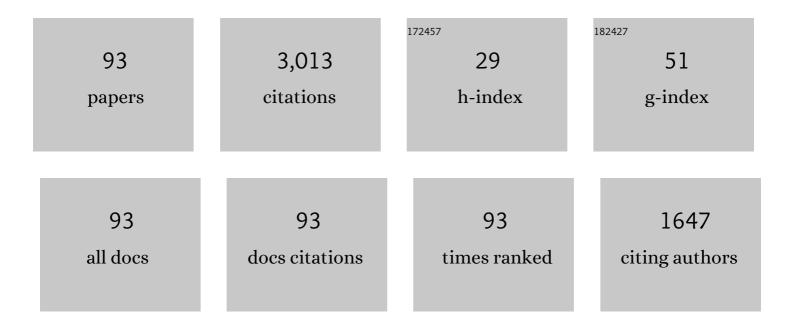
List of Publications by Year in descending order

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**ΥΠΝΕΕΙ ΥΛΝ** 

#	Article	IF	CITATIONS
1	Adsorption materials for volatile organic compounds (VOCs) and the key factors for VOCs adsorption process: A review. Separation and Purification Technology, 2020, 235, 116213.	7.9	489
2	Thermal management and temperature uniformity enhancement of electronic devices by micro heat sinks: A review. Energy, 2021, 216, 119223.	8.8	278
3	A review of microscopic seepage mechanism for shale gas extracted by supercritical CO2 flooding. Fuel, 2019, 238, 412-424.	6.4	98
4	Numerical simulation of the effect of hydrogen addition fraction on catalytic micro-combustion characteristics of methane-air. International Journal of Hydrogen Energy, 2014, 39, 1864-1873.	7.1	69
5	CFD investigation of CO2 capture by methyldiethanolamine and 2-(1-piperazinyl)-ethylamine in membranes: Part B. Effect of membrane properties. Journal of Natural Gas Science and Engineering, 2014, 19, 311-316.	4.4	65
6	Theoretical Study on CO <sub>2</sub> Absorption from Biogas by Membrane Contactors: Effect of Operating Parameters. Industrial & Engineering Chemistry Research, 2014, 53, 14075-14083.	3.7	63
7	Hydrogen-rich gas production from wet biomass steam gasification with CaO/MgO. International Journal of Hydrogen Energy, 2015, 40, 8816-8823.	7.1	61
8	Numerical comparison study of methane catalytic combustion characteristic between newly proposed opposed counter-flow micro-combustor and the conventional ones. Energy, 2019, 170, 403-410.	8.8	60
9	Single/multi-objective optimizations on hydraulic and thermal management in micro-channel heat sink with bionic Y-shaped fractal network by genetic algorithm coupled with numerical simulation. International Journal of Heat and Mass Transfer, 2019, 129, 468-479.	4.8	60
10	Numerical study on premixed hydrogen/air combustion characteristics in micro–combustor with slits on both sides of the bluff body. International Journal of Hydrogen Energy, 2019, 44, 1998-2012.	7.1	58
11	Numerical investigation on combustion characteristics of methane/air in a micro-combustor with a regular triangular pyramidÂbluff body. International Journal of Hydrogen Energy, 2018, 43, 7581-7590.	7.1	56
12	Thermal management and catalytic combustion stability characteristics of premixed methane/air in heat recirculation meso-combustors. International Journal of Energy Research, 2018, 42, 999-1012.	4.5	50
13	Numerical comparison of H2/air catalytic combustion characteristic of micro–combustors with a conventional, slotted or controllable slotted bluff body. Energy, 2019, 189, 116242.	8.8	48
14	Combustion characteristics and thermal enhancement of premixed hydrogen/air in micro combustor with pin fin arrays. International Journal of Hydrogen Energy, 2020, 45, 5014-5027.	7.1	48
15	Dynamic Modeling of Biogas Upgrading in Hollow Fiber Membrane Contactors. Energy & Fuels, 2014, 28, 5745-5755.	5.1	47
16	Thermal and chemical effects of hydrogen addition on catalytic micro-combustion of methane–air. International Journal of Hydrogen Energy, 2014, 39, 19204-19211.	7.1	46
17	Numerical investigation on the combustion characteristics of methane/air in a micro-combustor with a hollow hemispherical bluff body. Energy Conversion and Management, 2015, 94, 293-299.	9.2	46
18	Investigation of autothermal reforming of methane for hydrogen production in a spiral multi-cylinder micro-reactor used for mobile fuel cell. International Journal of Hydrogen Energy, 2015, 40, 1886-1893.	7.1	46

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19	Numerical study of effect of wall parameters on catalytic combustion characteristics of CH4/air in a heat recirculation micro-combustor. Energy Conversion and Management, 2016, 118, 474-484.	9.2	46
20	Heat transfer enhancement and exergy efficiency improvement of a micro combustor with internal spiral fins for thermophotovoltaic systems. Applied Thermal Engineering, 2021, 189, 116723.	6.0	42
21	Numerical study of the geometrical parameters on CH4/air premixed combustion in heat recirculation micro-combustor. Fuel, 2015, 159, 45-51.	6.4	40
22	Numerical study on catalytic combustion and extinction characteristics of pre-mixed methane–air in micro flatbed channel under different parameters of operation and wall. Fuel, 2016, 180, 659-667.	6.4	40
23	Numerical study on combustion characteristics ofÂhydrogen addition into methane–air mixture. International Journal of Hydrogen Energy, 2013, 38, 13463-13470.	7.1	39
24	Thermal management of 3D chip with non-uniform hotspots by integrated gradient distribution annular-cavity micro-pin fins. Applied Thermal Engineering, 2021, 182, 116132.	6.0	38
25	Numerical study on the influence of controllable flow ratio on combustion characteristics of a controllable central slotted bluff body and cavity combined micro combustor. International Journal of Hydrogen Energy, 2021, 46, 6901-6914.	7.1	38
26	Numerical investigation on a multi-channel micro combustor fueled with hydrogen for a micro-thermophotovoltaic system. International Journal of Hydrogen Energy, 2021, 46, 4460-4471.	7.1	37
27	Influence of controllable slit width and angle of controllable flow on hydrogen/air premixed combustion characteristics in micro combustor with both sides–slitted bluff body. International Journal of Hydrogen Energy, 2019, 44, 20482-20492.	7.1	36
28	Theoretical and numerical investigation of embedded microfluidic thermal management using gradient distribution micro pin fin arrays. Applied Thermal Engineering, 2019, 153, 748-760.	6.0	34
29	Influence of hydrogels embedding positions on automatic adaptive cooling of hot spot in fractal microchannel heat sink. International Journal of Thermal Sciences, 2020, 155, 106428.	4.9	33
30	Properties of thermodynamic equilibrium-based methane autothermal reforming to generate hydrogen. International Journal of Hydrogen Energy, 2013, 38, 15744-15750.	7.1	30
31	Thermal-hydraulic performances and synergy effect between heat and flow distribution in a truncated doubled-layered heat sink with Y-shaped fractal network. International Journal of Heat and Mass Transfer, 2019, 142, 118337.	4.8	30
32	Temperature Uniformity Enhancement and Flow Characteristics of Embedded Gradient Distribution Micro Pin Fin Arrays Using Dielectric Coolant for Direct Intra-Chip Cooling. International Journal of Heat and Mass Transfer, 2020, 156, 119675.	4.8	30
33	Investigation of CO2 absorption in methyldiethanolamine and 2-(1-piperazinyl)-ethylamine using hollow fiber membrane contactors: Part C. Effect of operating variables. Journal of Natural Gas Science and Engineering, 2014, 20, 58-66.	4.4	29
34	Thermodynamic analysis of CaO enhanced steam gasification process of food waste with high moisture and low moisture. Energy, 2020, 194, 116831.	8.8	29
35	Numerical comparison of premixed H2/air combustion characteristic of three types of micro cavity-combustors with guide vanes, bluff body, guide vanes and bluff body respectively. International Journal of Hydrogen Energy, 2021, 46, 24382-24394.	7.1	29
36	Comprehensive numerical insight the thermal performance improvement of the micro combustors with internal bionic Y-shaped fins for micro-thermal voltaic system applications. Fuel, 2022, 318, 123610.	6.4	29

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37	Heat transfer characteristics investigations on liquid-cooled integrated micro pin-fin chip with gradient distribution arrays and double heating input for intra-chip micro-fluidic cooling. International Journal of Heat and Mass Transfer, 2020, 159, 120118.	4.8	28
38	Numerical investigation on the characteristics of flow and heat transfer enhancement by micro pin-fin array heat sink with fin-shaped strips. Chemical Engineering and Processing: Process Intensification, 2021, 160, 108273.	3.6	27
39	Novel method of high-efficient synergistic catalyze ammonia borane hydrolysis to hydrogen evolution and catalytic mechanism investigation. Fuel, 2019, 255, 115771.	6.4	26
40	Hydrogen release mechanism and performance of ammonia borane catalyzed by transition metal catalysts Cu-Co/MgO(100). International Journal of Energy Research, 2019, 43, 921-930.	4.5	26
41	Combustion characteristic of premixed H2/air in the micro cavity combustor with guide vanes. Energy, 2022, 239, 121975.	8.8	26
42	Numerical investigation of a novel micro combustor with a central and bilateral slotted blunt body. International Journal of Hydrogen Energy, 2021, 46, 23564-23579.	7.1	25
43	Parametric study of inserting internal spiral fins on the micro combustor performance for thermophotovoltaic systems. Renewable and Sustainable Energy Reviews, 2022, 165, 112595.	16.4	23
44	Comparative investigation of combustion and thermal characteristics of a conventional micro combustor and micro combustor with internal straight/spiral fins for thermophotovoltaic system. International Journal of Hydrogen Energy, 2021, 46, 22165-22179.	7.1	22
45	Influence of the Membrane Module Geometry on SO <sub>2</sub> Removal: A Numerical Study. Industrial & Engineering Chemistry Research, 2015, 54, 11619-11627.	3.7	21
46	Novel non-noble metal catalyst with high efficiency and synergetic photocatalytic hydrolysis of ammonia borane and mechanism investigation. Energy, 2022, 244, 123187.	8.8	21
47	Numerical study on combustion characteristics and heat transfer enhancement of the micro combustor embedded with Y-shaped fin for micro thermo-photovoltaic system. Applied Thermal Engineering, 2022, 211, 118427.	6.0	21
48	Investigation on premixed methane/air combustion characteristics in heat recirculation micro combustor with separating cylinder. Chemical Engineering and Processing: Process Intensification, 2020, 153, 107987.	3.6	20
49	Multi-objective optimization and multi-factors analysis of the thermal/hydraulic performance of the bionic Y-shaped fractal heat sink. Applied Thermal Engineering, 2021, 195, 117157.	6.0	20
50	Numerical investigation on thermal-hydraulic characteristics of the micro heat sink with gradient distribution pin fin arrays and narrow slots. Applied Thermal Engineering, 2022, 202, 117836.	6.0	20
51	Effects of O2/CH4 ratio on methane catalytic combustion over Cu/Î <sup>3</sup> -Al2O3 particles. International Journal of Hydrogen Energy, 2016, 41, 18282-18290.	7.1	18
52	Transition metal tuned semiconductor photocatalyst CuCo/β-SiC catalyze hydrolysis of ammonia borane to hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 8307-8314.	7.1	18
53	Numerical investigation on combustion characteristics of premixed hydrogen/air in a swirl micro combustor with twisted vanes. International Journal of Hydrogen Energy, 2021, 46, 40105-40119.	7.1	18
54	Numerical study on methane/air combustion characteristics in a heat-recirculating micro combustor embedded with porous media. International Journal of Hydrogen Energy, 2022, 47, 20999-21012.	7.1	18

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55	Experimental investigation of methane auto-thermal reforming in hydrogen-permeable membrane reactor for pure hydrogen production. International Journal of Hydrogen Energy, 2016, 41, 13069-13076.	7.1	17
56	Methane oxidation with low O2/CH4 ratios in the present of water: Combustion or reforming. Energy Conversion and Management, 2017, 132, 339-346.	9.2	15
57	Efficient Hydrogen Production by an rGO/TiO <sub>2</sub> Composite Material from Ammonia Borane Hydrolysis in a Photocatalytic Reactor. Energy & Fuels, 2021, 35, 16065-16074.	5.1	15
58	Thermal-hydraulic performance enhancement of miniature heat sinks using connected Y-shaped fractal micro-channels. Chemical Engineering and Processing: Process Intensification, 2021, 166, 108487.	3.6	15
59	Numerical study on premixed hydrogen/air combustion characteristics and heat transfer enhancement of micro-combustor embedded with pin fins. International Journal of Hydrogen Energy, 2021, 46, 38519-38534.	7.1	15
60	Multi-objective optimizations on thermal and hydraulic performance of symmetric and asymmetric bionic Y-shaped fractal networks by genetic algorithm coupled with CFD simulation. International Communications in Heat and Mass Transfer, 2021, 124, 105261.	5.6	14
61	Influence of hole size and number on pressure drop and energy output of the micro-cylindrical combustor inserting with an internal spiral fin with holes. International Journal of Hydrogen Energy, 2021, 46, 26594-26606.	7.1	14
62	Activation Pathway of Câ€H and C–C Bonds of Ethane by Pd Atom with CO <sub>2</sub> as a Soft Oxidant. ChemistrySelect, 2019, 4, 9608-9617.	1.5	13
63	Numerical study of thermal enhancement in a micro-heat sink with ribbed pin-fin arrays. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2163-2177.	3.6	13
64	Influence of multi-structure optimization on the comprehensive performance of micro-cylindrical combustor inserting with spiral fin by using grey relational analysis and analysis of variance. International Journal of Hydrogen Energy, 2021, 46, 28327-28337.	7.1	12
65	Numerical investigation on the transient characteristics of hydrogen production from catalytic autothermal reforming of methane in a micro combustor with multiple cylinders. Journal of Natural Gas Science and Engineering, 2014, 19, 251-257.	4.4	11
66	Experimental study on flow boiling characteristics of hybrid micro-channels with gradient distribution pillars and bypass. International Journal of Heat and Mass Transfer, 2022, 186, 122468.	4.8	11
67	Numerical Simulation and Analysis of CO2Removal in a Polypropylene Hollow Fiber Membrane Contactor. International Journal of Chemical Engineering, 2014, 2014, 1-7.	2.4	10
68	Highly Efficient Photothermal Difunctional Catalysts To Enhance Ammonia Borane Hydrolysis for Hydrogen Evolution. Energy & Fuels, 2020, 34, 16948-16955.	5.1	10
69	Numerical study on hot spots thermal management in low pressure gradient distribution narrow microchannel embedded with pin fins. International Journal of Heat and Mass Transfer, 2022, 186, 122518.	4.8	10
70	Reprint of: Temperature Uniformity Enhancement and Flow Characteristics of Embedded Gradient Distribution Micro Pin Fin Arrays Using Dielectric Coolant for Direct Intra-Chip Cooling. International Journal of Heat and Mass Transfer, 2020, 161, 120235.	4.8	8
71	Preparation of TiO <sub>2</sub> -Based Photocatalysts Synergistically Modified with Fe <sup>3+</sup> –Graphene and Their Visible-Light-Catalyzed Hydrogen Production from Ammonia Borane. Energy & Fuels, 2021, 35, 16035-16045.	5.1	8
72	Numerical study on hotspots adaptive cooling and thermal-hydraulic performance enhancement of fractal microchannel heat sink embedded with hydrogels. International Journal of Thermal Sciences, 2022, 172, 107272.	4.9	8

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73	Influence of ZrO2 crystal structure on the catalytic performance of Fe-Ni catalysts for CO2-assisted ethane dehydrogenation reaction. Fuel, 2022, 322, 124122.	6.4	8
74	Thermodynamic Analysis on Reaction Characteristics of the Coupling Steam, CO2 and O2 Reforming of Methane. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	7
75	Catalytic Combustion of Low-Concentration Methane over M <sub><i>x</i></sub> -Cu/γ-Al <sub>2</sub> 0 <sub>3</sub> (M = Mn/Ce) Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 4291-4301.	3.7	7
76	Effects of Slitting Size and Inlet Operating Conditions on Hydrogen Combustion Characteristics in a Micro-Combustor With a Controllable Vortex Slotted Bluff Body. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	7
77	Numerical investigation of components influence on characteristics of autothermal reforming of methane in micro premix chamber. International Journal of Hydrogen Energy, 2014, 39, 11583-11591.	7.1	6
78	Catalytic combustion characteristics of CH 4 in the micro cavityâ€combustor under different types of air inlet distribution. International Journal of Energy Research, 2021, 45, 3870-3882.	4.5	6
79	Ammonia Borane and Its Applications in the Advanced Energy Technology. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	6
80	Numerical investigations on the emitter power and energy conversion efficiency improvement of microâ€cylindrical combustor by an internal spiral fin for microâ€thermophotovoltaic systems. International Journal of Energy Research, 2021, 45, 8684-8698.	4.5	5
81	Automatically adaptive cooling of hotspots by a fractal microchannel heat sink embedded with thermoâ€responsive hydrogels. International Journal of Energy Research, 2022, 46, 3132-3144.	4.5	4
82	Characteristics of combined carbon dioxide reforming with partial oxidation of methane to produce hydrogen in the membrane reactor. International Journal of Energy Research, 2017, 41, 689-698.	4.5	3
83	Influence of Porous Media Aperture Arrangement on CH4/Air Combustion Characteristics in Micro Combustor. Processes, 2021, 9, 1747.	2.8	3
84	Enhancement of combustion and radiation performances in a counterflow doubleâ€channel combustor with pin fins for microâ€thermophotovoltaic system. International Journal of Energy Research, 2022, 46, 1575-1592.	4.5	3
85	The Effect of Inlet Velocity on CH <sub>4</sub> Catalytic Combustion Behavior with H <sub>2</sub> Addition in a Microchannel Combustor. Energy Technology, 2017, 5, 1495-1506.	3.8	2
86	Planar Laser-Induced Fluorescence Research on Flame Quenching and OH Radical Behavior Near the Walls. Journal of Energy Engineering - ASCE, 2017, 143, 04017027.	1.9	2
87	Gas Capture Processes. Processes, 2020, 8, 70.	2.8	2
88	Thermal-hydraulic investigation on micro heat sinks with ribbed pin-fin arrays and single heating input: parametrical study. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	2
89	Combustion Performance of Methane/Air in a Micro Combustor Embedded Hollow Hemispherical Slotted Bluff Body. Energies, 2022, 15, 4033.	3.1	2
90	Effect of Catalytic Cylinders on Autothermal Reforming of Methane for Hydrogen Production in a Microchamber Reactor. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	1

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91	Effects of the geometrical parameters of a rough structure on the wall of a micro-channel on the catalytic combustion of methane and the extinction limit: a numerical study. Sustainable Energy and Fuels, 0, , .	4.9	1
92	Numerical Study on the Characteristics of Methane Hedging Combustion in a Heat Cycle Porous Media Burner. Processes, 2021, 9, 1733.	2.8	1
93	Experimental Investigation on Mixed Combustion Characteristics of Coal, Tobacco Straw, and Cinder in an Energy-Saving Bake Process. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	1