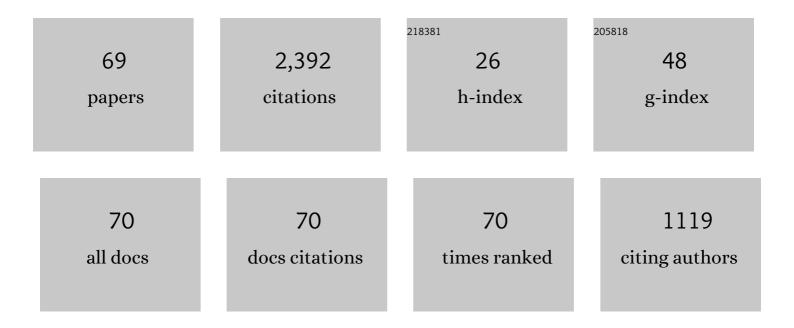
List of Publications by Year in descending order

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ΥΠΝΗΠΑ CAN

#	Article	IF	CITATIONS
1	Investigation on the thermal performance of a battery thermal management system using heat pipe under different ambient temperatures. Energy Conversion and Management, 2018, 155, 1-9.	4.4	251
2	Microscale heat transfer enhancement using thermal boundary layer redeveloping concept. International Journal of Heat and Mass Transfer, 2005, 48, 1662-1674.	2.5	184
3	Sensitivity analysis of factors influencing a heat pipe-based thermal management system for a battery module with cylindrical cells. Applied Thermal Engineering, 2019, 151, 475-485.	3.0	145
4	Development of thermal equivalent circuit model of heat pipe-based thermal management system for a battery module with cylindrical cells. Applied Thermal Engineering, 2020, 164, 114523.	3.0	121
5	Numerical simulations of interrupted and conventional microchannel heat sinks. International Journal of Heat and Mass Transfer, 2008, 51, 5906-5917.	2.5	111
6	A novel ultra-thin flattened heat pipe with biporous spiral woven mesh wick for cooling electronic devices. Energy Conversion and Management, 2019, 180, 769-783.	4.4	107
7	Static and dynamic flow instability of a parallel microchannel heat sink at high heat fluxes. Energy Conversion and Management, 2005, 46, 313-334.	4.4	101
8	Thermal and electrochemical performance of a serially connected battery module using a heat pipe-based thermal management system under different coolant temperatures. Energy, 2019, 189, 116233.	4.5	84
9	Transient flow pattern based microscale boiling heat transfer mechanisms. Journal of Micromechanics and Microengineering, 2005, 15, 1344-1361.	1.5	82
10	A numerical study on the performance of a thermal management system for a battery pack with cylindrical cells based on heat pipes. Applied Thermal Engineering, 2020, 179, 115740.	3.0	82
11	Structure optimization of a heat pipe-cooling battery thermal management system based on fuzzy grey relational analysis. International Journal of Heat and Mass Transfer, 2022, 182, 121924.	2.5	64
12	Microscale boiling heat transfer in a micro-timescale at high heat fluxes. Journal of Micromechanics and Microengineering, 2005, 15, 362-376.	1.5	55
13	Experimental study on the electrospray and combustion characteristics of biodiesel-ethanol blends in a meso-scale combustor. Energy, 2019, 179, 843-849.	4.5	54
14	Experimental analysis of thin vapor chamber with composite wick structure under different cooling conditions. Applied Thermal Engineering, 2019, 156, 471-484.	3.0	51
15	Ultra-thin flattened heat pipe with a novel band-shape spiral woven mesh wick for cooling smartphones. International Journal of Heat and Mass Transfer, 2020, 146, 118792.	2.5	48
16	Performance simulation of a heat pipe and refrigerant-based lithium-ion battery thermal management system coupled with electric vehicle air-conditioning. Applied Thermal Engineering, 2021, 191, 116878.	3.0	48
17	Numerical analysis of capacity fading for a LiFePO4 battery under different current rates and ambient temperatures. International Journal of Heat and Mass Transfer, 2021, 165, 120615.	2.5	46
18	Effect of initial temperature on electrochemical and thermal characteristics of a lithium-ion battery during charging process. Applied Thermal Engineering, 2020, 177, 115500.	3.0	44

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19	The electro-spraying characteristics of ethanol for application in a small-scale combustor under combined electric field. Applied Thermal Engineering, 2015, 87, 595-604.	3.0	43
20	Effect of alternating electric fields on the behaviour of small-scale laminar diffusion flames. Applied Thermal Engineering, 2015, 89, 306-315.	3.0	42
21	Experimental study on electro-spraying and combustion characteristics in meso-scale combustors. Energy Conversion and Management, 2017, 131, 10-17.	4.4	42
22	Effect of the passage area ratio of liquid to vapor on an ultra-thin flattened heat pipe. Applied Thermal Engineering, 2019, 162, 114215.	3.0	38
23	Investigation of the effect of DC electric field on a small ethanol diffusion flame. Fuel, 2017, 188, 621-627.	3.4	35
24	Electro-spraying and catalytic combustion characteristics of ethanol in meso-scale combustors with steel and platinum meshes. Energy Conversion and Management, 2018, 164, 410-416.	4.4	30
25	Effect of viscosity ratio on the dynamic response of droplet deformation under a steady electric field. Physics of Fluids, 2020, 32, .	1.6	30
26	Thermal–Electrochemical simulation of electrochemical characteristics and temperature difference for a battery module under two-stage fast charging. Journal of Energy Storage, 2020, 29, 101307.	3.9	29
27	An experimental investigation on the electrospray characteristics in a meso-scale system at different modes. Experimental Thermal and Fluid Science, 2019, 106, 130-137.	1.5	27
28	An improved model for prediction of the cone-jet formation in electrospray with the effect of space charge. Journal of Aerosol Science, 2020, 139, 105463.	1.8	26
29	Effect of a ring electrode on the cone-jet characteristics of ethanol in small-scale electro-spraying combustors. Journal of Aerosol Science, 2016, 98, 15-29.	1.8	24
30	Multilayer electrochemical-thermal coupled modeling of unbalanced discharging in a serially connected lithium-ion battery module. Energy, 2020, 209, 118429.	4.5	24
31	Effects of electric field intensity and frequency of AC electric field on the small-scale ethanol diffusion flame behaviors. Applied Thermal Engineering, 2017, 115, 1330-1336.	3.0	23
32	Thermal performance of a meso-scale combustor with electrospray technique using liquid ethanol as fuel. Applied Thermal Engineering, 2018, 128, 274-281.	3.0	23
33	A review on the technology development and fundamental research of electrospray combustion of liquid fuel at small-scale. Fuel Processing Technology, 2022, 234, 107342.	3.7	23
34	A comparative study on droplet characteristics and specific charge of ethanol in two small-scale electrospray systems. Scientific Reports, 2019, 9, 18791.	1.6	22
35	An experimental study of two-phase pressure drop of acetone in triangular silicon micro-channels. Applied Thermal Engineering, 2015, 80, 76-86.	3.0	20
36	Investigation on premixed methane/air combustion characteristics in heat recirculation micro combustor with separating cylinder. Chemical Engineering and Processing: Process Intensification, 2020, 153, 107987.	1.8	20

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37	An improved reaction mechanism for predicting the charged species in ethanol-air flame. Fuel, 2018, 228, 74-80.	3.4	16
38	Effects of direct-current electric fields on flame shape and combustion characteristics of ethanol in small scale. Advances in Mechanical Engineering, 2016, 8, 168781401562484.	0.8	15
39	Evaporation and combustion characteristics of an ethanol fuel droplet in a DC electric field. Journal of the Energy Institute, 2021, 98, 216-222.	2.7	15
40	A Comparative Study on Free Jet and Confined Jet Diffusion Flames of Liquid Ethanol From Small Nozzles. Combustion Science and Technology, 2014, 186, 120-138.	1.2	14
41	The atomization current and droplet size of ethanol in two different small-scale electro-spraying systems. Journal of Electrostatics, 2017, 87, 228-235.	1.0	13
42	Are the available boiling heat transfer coefficients suitable for silicon microchannel heat sinks?. Microfluidics and Nanofluidics, 2008, 4, 575-587.	1.0	12
43	Numerical study for influence of ozone on the combustion of biodiesel surrogates in a homogeneous charge compression ignition engine. Fuel Processing Technology, 2022, 225, 107039.	3.7	12
44	Structure, Growth Process, and Growth Mechanism of Perovskite in High-Titanium-Bearing Blast Furnace Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1751-1759.	1.0	11
45	UNSTEADY FLOW PHENOMENON IN A HEATED MICROCHANNEL AT HIGH HEAT FLUXES. Experimental Heat Transfer, 2004, 17, 299-319.	2.3	10
46	Numerical analysis on heat transfer characteristics of a multi-vapor channel vapor chamber with novel ultra-thin composite wick. Case Studies in Thermal Engineering, 2021, 26, 101035.	2.8	10
47	Experimental and Numerical Simulation Study of the Microscale Laminar Flow Diffusion Combustion of Liquid Ethanol. Industrial & amp; Engineering Chemistry Research, 2013, 52, 8021-8027.	1.8	9
48	Oscillating flow behavior of a natural circulation loop using minichannels at atmospheric pressure. Applied Thermal Engineering, 2004, 24, 2665-2677.	3.0	7
49	Numerical analysis on the heat/mass transfer to a deformed droplet under a steady electric field. International Journal of Heat and Mass Transfer, 2022, 188, 122617.	2.5	7
50	Chemical kinetic modeling study of methyl esters oxidation: Improvement on the prediction of early CO2 formation. Fuel, 2020, 279, 118383.	3.4	6
51	Study on the electrical response of small ethanolâ€air diffusion flame under the uniform electric field. International Journal of Energy Research, 2020, 44, 11872-11882.	2.2	5
52	Uniform Mems Chip Temperatures in the Nucleate Boiling Heat Transfer Region by Selecting Suitable, Medium Boiling Number Range. Nanoscale and Microscale Thermophysical Engineering, 2007, 11, 273-300.	1.4	4
53	Experimental Study on the Diffusion Flame Using Liquid Ethanol as Fuel in Mini-Scale. , 2008, , .		4
54	Experimental study on the small-scale diffusion flame of ethanol and the wall temperature field. Heat Transfer - Asian Research, 2009, 39, 87-96.	2.8	4

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55	Electric field and spraying characteristics of electrospray using concave ground electrode. Journal of Electrostatics, 2022, 115, 103662.	1.0	4
56	Experimental Study on the Diffusion Flame from Small Ceramic Tube. , 2010, , .		3
57	An Experimental Investigation of Flow Characteristics for Laminar Flow in Silicon Microchannels. , 2007, , 1011-1015.		3
58	Experimental Investigation on Fouling Performance of Corrugated Tubes. Journal of Enhanced Heat Transfer, 2004, 11, 417-422.	0.5	3
59	Experimental study on the characteristics of ethanol evaporation and its diffusion flame under the effect of DC field. Heat Transfer - Asian Research, 2009, 39, 77-86.	2.8	2
60	Experimental Study of Small Diffusion Flame Under Strong Electric Field. , 2008, , .		1
61	Energy Conservation Study on the Industrial Boiler and Steam Kettle System. , 2011, , .		1
62	The cost of electric power generation in Guangdong Province. Energy Sources, Part B: Economics, Planning and Policy, 2016, 11, 1014-1019.	1.8	1
63	Effect of Axial Heat Conduction on Heat Transfer in Triangular Silicon Microchannels. , 2008, , .		1
64	Bubble Dynamics and Boiling Heat Transfer in Microsystems. , 2008, , .		0
65	Characteristics of Small Diffusion Flames in a Confined Space. , 2009, , .		Ο
66	Investigation on the Characteristics of the Mixed Bed Materials in a CFB Boiler. , 2010, , .		0
67	Cone-jet Characteristics of Ethanol by Electrospraying Using Double Electrodes. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2016, 52, 158.	0.7	0
68	Electro-spraying and Combustion of Ethanol in a Micro-scale Combustor under Combined Electric Field. , 2016, , 181-187.		0
69	Experimental Study on Electro-Spraying of Ethanol Based on PDA Measurement. Minerals, Metals and Materials Series, 2017, 87-92	0.3	Ο