

# Kyung-Chun Kim

## List of Publications by Year in descending order

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253  
papers

4,370  
citations

117625

34  
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168389

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254  
all docs

254  
docs citations

254  
times ranked

3319  
citing authors

#	ARTICLE	IF	CITATIONS
1	Potentials of porous materials for energy management in heat exchangers – A comprehensive review. <i>Applied Energy</i> , 2019, 243, 206-232.	10.1	144
2	Investigation of organic Rankine cycles with zeotropic mixtures as a working fluid: Advantages and issues. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 73, 1000-1013.	16.4	124
3	3D particle position and 3D velocity field measurement in a microvolume via the defocusing concept. <i>Measurement Science and Technology</i> , 2006, 17, 2897-2905.	2.6	116
4	Super-resolution reconstruction of turbulent velocity fields using a generative adversarial network-based artificial intelligence framework. <i>Physics of Fluids</i> , 2019, 31, .	4.0	115
5	Thermodynamic analysis of a novel dual-loop organic Rankine cycle for engine waste heat and LNG cold. <i>Applied Thermal Engineering</i> , 2016, 100, 1031-1041.	6.0	113
6	Progress and challenges on the thermal management of electrochemical energy conversion and storage technologies: Fuel cells, electrolyzers, and supercapacitors. <i>Progress in Energy and Combustion Science</i> , 2022, 88, 100966.	31.2	108
7	NUMERICAL STUDY OF HEAT TRANSFER AND FLOW OF NATURAL CONVECTION IN AN ENCLOSURE WITH A HEAT-GENERATING CONDUCTING BODY. <i>Numerical Heat Transfer; Part A: Applications</i> , 1997, 31, 289-303.	2.1	106
8	Defrosting method adopting dual hot gas bypass for an air-to-air heat pump. <i>Applied Energy</i> , 2011, 88, 4544-4555.	10.1	92
9	Working fluids selection and parametric optimization of an Organic Rankine Cycle coupled Vapor Compression Cycle (ORC-VCC) for air conditioning using low grade heat. <i>Energy and Buildings</i> , 2016, 129, 378-395.	6.7	75
10	Time-resolved turbulent velocity field reconstruction using a long short-term memory (LSTM)-based artificial intelligence framework. <i>Physics of Fluids</i> , 2019, 31, .	4.0	73
11	Experimental and Thermo-economic Analysis of Small-Scale Solar Organic Rankine Cycle (SORC) System. <i>Entropy</i> , 2015, 17, 2039-2061.	2.2	68
12	A combined Dual Hot-Gas Bypass Defrosting method with accumulator heater for an air-to-air heat pump in cold region. <i>Applied Energy</i> , 2015, 147, 344-352.	10.1	68
13	Experimental study of a 1kW organic Rankine cycle with a zeotropic mixture of R245fa/R134a. <i>Energy</i> , 2015, 93, 2363-2373.	8.8	67
14	A feasibility study of solar energy in South Korea. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 566-579.	16.4	63
15	Microfluidics assisted synthesis of well-defined spherical polymeric microcapsules and their utilization as potential encapsulants. <i>Lab on A Chip</i> , 2006, 6, 752.	6.0	62
16	Experimental investigation of an organic Rankine cycle with multiple expanders used in parallel. <i>Applied Energy</i> , 2015, 145, 246-254.	10.1	58
17	Numerical study on the horizontal axis turbines arrangement in a wind farm: Effect of separation distance on the turbine aerodynamic power output. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 117, 11-17.	3.9	56
18	Thermo-economic analysis of a biogas-fueled micro-gas turbine with a bottoming organic Rankine cycle for a sewage sludge and food waste treatment plant in the Republic of Korea. <i>Applied Thermal Engineering</i> , 2017, 127, 963-974.	6.0	56

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19	Thermodynamic performance analysis of a combined power cycle using low grade heat source and LNG cold energy. <i>Applied Thermal Engineering</i> , 2014, 70, 50-60.	6.0	54
20	Performance characteristics of a 200-kW organic Rankine cycle system in a steel processing plant. <i>Applied Energy</i> , 2016, 183, 623-635.	10.1	52
21	Flow and heat transfer measurements of a wall attaching offset jet. <i>International Journal of Heat and Mass Transfer</i> , 1996, 39, 2907-2913.	4.8	51
22	Numerical investigations on flow structure and behavior of vortices in the dynamic stall of an oscillating pitching hydrofoil. <i>Ocean Engineering</i> , 2016, 127, 200-211.	4.3	51
23	Measurement of two-dimensional heat transfer and flow characteristics of an impinging sweeping jet. <i>International Journal of Heat and Mass Transfer</i> , 2019, 136, 415-426.	4.8	50
24	Interfacial friction in upward annular gas-liquid two-phase flow in pipes. <i>Experimental Thermal and Fluid Science</i> , 2017, 84, 90-109.	2.7	48
25	Experimental heat transfer and pressure drop in a metal-foam-filled tube heat exchanger. <i>Experimental Thermal and Fluid Science</i> , 2017, 82, 42-49.	2.7	44
26	An optoelectrokinetic technique for programmable particle manipulation and bead-based biosignal enhancement. <i>Lab on A Chip</i> , 2014, 14, 3958-3967.	6.0	43
27	CFD study on aerodynamic power output of a 110 kW building augmented wind turbine. <i>Energy and Buildings</i> , 2016, 129, 162-173.	6.7	41
28	Microfluidic method for measuring viscosity using images from smartphone. <i>Optics and Lasers in Engineering</i> , 2018, 104, 237-243.	3.8	40
29	Flow boiling visualization and heat transfer in metal-foam-filled mini tubes – Part I: Flow pattern map and experimental data. <i>International Journal of Heat and Mass Transfer</i> , 2016, 98, 857-867.	4.8	39
30	Dual parallel organic Rankine cycle (ORC) system for high efficiency waste heat recovery in marine application. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 2509-2515.	1.5	38
31	Transient temperature field and heat transfer measurement of oblique jet impingement by thermographic phosphor. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 691-702.	4.8	37
32	Application of metal foam heat exchangers for a high-performance liquefied natural gas regasification system. <i>Energy</i> , 2016, 105, 57-69.	8.8	37
33	Aerodynamic Analysis of a Helical Vertical Axis Wind Turbine. <i>Energies</i> , 2017, 10, 575.	3.1	37
34	Kelvin-cell-based metal foam heat exchanger with elliptical struts for low energy consumption. <i>Applied Thermal Engineering</i> , 2018, 144, 540-550.	6.0	37
35	Effect of ligament hollowness on heat transfer characteristics of open-cell metal foam. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 911-918.	4.8	35
36	Thermodynamic Modeling of the Solar Organic Rankine Cycle with Selected Organic Working Fluids for Cogeneration. <i>Distributed Generation and Alternative Energy Journal</i> , 2014, 29, 7-34.	0.8	33

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37	Thermal performance of a 10-kW phase-change plate heat exchanger with metal foam filled channels. <i>Applied Thermal Engineering</i> , 2016, 99, 790-801.	6.0	33
38	An evaluation of wind turbine waste heat recovery using organic Rankine cycle. <i>Journal of Cleaner Production</i> , 2019, 214, 705-716.	9.3	33
39	Miniature particle image velocimetry system with LED in-line illumination. <i>Measurement Science and Technology</i> , 2002, 13, 1006-1013.	2.6	32
40	Experimental study on single-phase heat transfer and pressure drop of refrigerants in a plate heat exchanger with metal-foam-filled channels. <i>Applied Thermal Engineering</i> , 2016, 102, 423-431.	6.0	32
41	Experimental and Numerical Study of the Aerodynamic Characteristics of an Archimedes Spiral Wind Turbine Blade. <i>Energies</i> , 2014, 7, 7893-7914.	3.1	31
42	Flow boiling characteristics of R134a and R245fa mixtures in a vertical circular tube. <i>Experimental Thermal and Fluid Science</i> , 2016, 72, 112-124.	2.7	31
43	Prediction of entrained droplet fraction in co-current annular gas-liquid flow in vertical pipes. <i>Experimental Thermal and Fluid Science</i> , 2017, 85, 287-304.	2.7	30
44	Experimental study of the effect of brazed compact metal-foam evaporator in an organic Rankine cycle performance: Toward a compact ORC. <i>Energy Conversion and Management</i> , 2018, 173, 37-45.	9.2	30
45	Phosphorescence-based multiphysics visualization: a review. <i>Journal of Visualization</i> , 2014, 17, 253-273.	1.8	29
46	Flow structure around a 3-D rectangular prism in a turbulent boundary layer. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2003, 91, 653-669.	3.9	28
47	An amperometric immunosensor for osteoprotegerin based on gold nanoparticles deposited conducting polymer. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1595-1601.	10.1	28
48	Dissolved oxygen concentration field measurement in micro-scale water flows using PtOEP/PS film sensor. <i>Optics and Lasers in Engineering</i> , 2012, 50, 74-81.	3.8	27
49	Decay-slope method for 2-dimensional temperature field measurement using thermographic phosphors. <i>Experimental Thermal and Fluid Science</i> , 2014, 59, 1-8.	2.7	27
50	Flow boiling visualization and heat transfer in metal-foam-filled mini tubes – Part II: Developing predictive methods for heat transfer coefficient and pressure drop. <i>International Journal of Heat and Mass Transfer</i> , 2016, 98, 868-878.	4.8	27
51	Design, Fabrication, and Performance Test of a 100-W Helical-Blade Vertical-Axis Wind Turbine at Low Tip-Speed Ratio. <i>Energies</i> , 2018, 11, 1517.	3.1	27
52	Aerodynamic performance improvement of wind turbine blade by cavity shape optimization. <i>Renewable Energy</i> , 2019, 132, 773-785.	8.9	26
53	A Mathematical Model of Hourly Solar Radiation in Varying Weather Conditions for a Dynamic Simulation of the Solar Organic Rankine Cycle. <i>Energies</i> , 2015, 8, 7058-7069.	3.1	25
54	An experimental study on the flow and heat transfer of an impinging synthetic jet. <i>International Journal of Heat and Mass Transfer</i> , 2019, 144, 118626.	4.8	25

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55	Dynamic structures of a submerged jet interacting with a free surface. <i>Experimental Thermal and Fluid Science</i> , 2014, 57, 396-406.	2.7	24
56	Lattice Boltzmann simulation of solid particles behavior in a three-dimensional lid-driven cavity flow. <i>Computers and Mathematics With Applications</i> , 2014, 68, 606-621.	2.7	24
57	Effect of gravity vector on flow boiling heat transfer, flow pattern map, and pressure drop of R245fa refrigerant in mini tubes. <i>International Journal of Multiphase Flow</i> , 2016, 83, 202-216.	3.4	23
58	Performance assessment and multi objective optimization of an Organic Rankine Cycle driven cooling air conditioning system. <i>Energy and Buildings</i> , 2019, 191, 13-30.	6.7	23
59	Experimental and numerical study on flow characteristics and heat transfer of an oscillating jet in a channel. <i>International Journal of Heat and Fluid Flow</i> , 2020, 86, 108701.	2.4	23
60	Near-Optimal Weather Routing by Using Improved A* Algorithm. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6010.	2.5	23
61	Effect of hydrogen addition on conjugate heat transfer in a planar micro-combustor with the detailed reaction mechanism: An analytical approach. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15425-15440.	7.1	23
62	Upward gas-liquid two-phase flow after a U-bend in a large-diameter serpentine pipe. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 784-800.	4.8	22
63	An experimental and numerical study on hydrodynamic characteristics of horizontal annular type water-air ejector. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 2773-2781.	1.5	20
64	Phosphorescence-Based Flexible and Transparent Optical Temperature-Sensing Skin Capable of Operating in Extreme Environments. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2461-2469.	4.4	20
65	Soft computing analysis of thermohydraulic enhancement using twisted tapes in a flat-plate solar collector: Sensitivity analysis and multi-objective optimization. <i>Journal of Cleaner Production</i> , 2021, 314, 127947.	9.3	20
66	Aerodynamic and Structural Evaluation of Horizontal Archimedes Spiral Wind Turbine. <i>Journal of Clean Energy Technologies</i> , 2015, 3, 34-38.	0.1	20
67	Signal intensity enhancement of $\frac{1}{4}$ -LIF by using ultra-thin laser sheet illumination and aqueous mixture with ethanol/methanol for micro-channel applications. <i>Optics and Lasers in Engineering</i> , 2006, 44, 224-239.	3.8	19
68	A novel lifetime-based phosphor thermography using three-gate scheme and a low frame-rate camera. <i>Experimental Thermal and Fluid Science</i> , 2017, 80, 53-60.	2.7	19
69	Characteristics of pulsatile flows in curved stenosed channels. <i>PLoS ONE</i> , 2017, 12, e0186300.	2.5	19
70	Heat transfer past particles entrained in an oscillating flow with and without a steady velocity. <i>International Journal of Heat and Mass Transfer</i> , 1993, 36, 949-959.	4.8	18
71	Experimental and numerical investigation of three-dimensional vortex structures of a pitching airfoil at a transitional Reynolds number. <i>Chinese Journal of Aeronautics</i> , 2019, 32, 2254-2266.	5.3	18
72	Flow characteristics of a wall-attaching oscillating jet over single-wall and double-wall geometries. <i>Experimental Thermal and Fluid Science</i> , 2020, 112, 110009.	2.7	18

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73	Jet impingement using an adjustable spreading-angle sweeping jet. <i>Aerospace Science and Technology</i> , 2020, 105, 105956.	4.8	18
74	Lattice Boltzmann simulation of the three-dimensional motions of particles with various density ratios in lid-driven cavity flow. <i>Applied Mathematics and Computation</i> , 2015, 265, 826-843.	2.2	17
75	Comparison of lifetime-based methods for 2D phosphor thermometry in high-temperature environment. <i>Measurement Science and Technology</i> , 2016, 27, 095201.	2.6	17
76	Development of a dual optical fiber probe for the hydrodynamic investigation of a horizontal annular drive gas/liquid ejector. <i>Flow Measurement and Instrumentation</i> , 2017, 56, 45-55.	2.0	17
77	Flow Characteristics of Three-Dimensional Curved Wall Jets on a Cylinder. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	1.5	17
78	Flow-pattern-based experimental analysis of convective boiling heat transfer in a rectangular channel filled with open-cell metallic random porous media. <i>International Journal of Heat and Mass Transfer</i> , 2019, 142, 118402.	4.8	17
79	Experimental study on heat transfer and flow structures of feedback-free sweeping jet impinging on a flat surface. <i>International Journal of Heat and Mass Transfer</i> , 2020, 159, 120085.	4.8	17
80	Simultaneous measurement of temperature and velocity fields using thermographic phosphor tracer particles. <i>Journal of Visualization</i> , 2017, 20, 305-319.	1.8	16
81	Effect of acicular vortex generators on the aerodynamic features of a slender delta wing. <i>Aerospace Science and Technology</i> , 2019, 86, 327-340.	4.8	16
82	Cylindrical porous radiant burner with internal combustion regime: Energy saving analysis using response surface method. <i>Energy</i> , 2020, 207, 118231.	8.8	16
83	Simulation of methane steam reforming in a catalytic micro-reactor using a combined analytical approach and response surface methodology. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 22763-22776.	7.1	16
84	Simultaneous measurement of dissolved oxygen concentration and velocity field in microfluidics using oxygen-sensitive particles. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 139-149.	2.2	15
85	Measurement of dissolved oxygen diffusion coefficient in a microchannel using UV-LED induced fluorescence method. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 541-550.	2.2	15
86	Acquisition of kHz-frequency two-dimensional surface temperature field using phosphor thermometry and proper orthogonal decomposition assisted long short-term memory neural networks. <i>International Journal of Heat and Mass Transfer</i> , 2021, 165, 120662.	4.8	15
87	Experimental study on flow characteristics and heat transfer of an oscillating jet in a cross flow. <i>International Journal of Heat and Mass Transfer</i> , 2021, 173, 121208.	4.8	15
88	The effect of serrated fins on the flow around a circular cylinder. <i>Journal of Mechanical Science and Technology</i> , 2003, 17, 925-934.	0.4	14
89	Development of capacity modulation compressor based on a two stage rotary compressor “ part I: Modeling and simulation of compressor performance. <i>International Journal of Refrigeration</i> , 2015, 54, 22-37.	3.4	14
90	Effect of crossflow velocity on underwater bubble swarms. <i>International Journal of Multiphase Flow</i> , 2018, 105, 60-73.	3.4	14

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91	Characteristics of bubble-induced liquid flows in a rectangular tank. <i>Experimental Thermal and Fluid Science</i> , 2018, 97, 21-35.	2.7	14
92	Spectroscopic techniques as a diagnostic tool for early detection of osteoporosis. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 1661-1668.	1.5	13
93	Enhancement of momentum transfer of bubble swarms using an ejector with water injection. <i>Energy</i> , 2018, 162, 892-909.	8.8	13
94	An experimental study on the thermal and hydraulic characteristics of open-cell nickel and copper foams for compact heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 162-174.	4.8	13
95	Near-Field Thermometry Sensor Based on the Thermal Resonance of a Microcantilever in Aqueous Medium. <i>Sensors</i> , 2007, 7, 3156-3165.	3.8	12
96	Advances and applications on micro-defocusing digital particle image velocimetry ( $\hat{1}/4$ -DDPIV) techniques for microfluidics. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 3769-3784.	1.5	12
97	Effect of the wind direction on the near wake structures of an Archimedes spiral wind turbine blade. <i>Journal of Visualization</i> , 2016, 19, 653-665.	1.8	12
98	Two-dimensional thermographic phosphor thermometry in a cryogenic environment. <i>Measurement Science and Technology</i> , 2017, 28, 015201.	2.6	12
99	Wake/shear layer interaction for low-Reynolds-number flow over multi-element airfoil. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	12
100	Lattice Boltzmann simulation of diluted gas flow inside irregular shape microchannel by two relaxation times on the basis of wall function approach. <i>Vacuum</i> , 2020, 173, 109104.	3.5	12
101	Misalignment Detection of a Rotating Machine Shaft Using a Support Vector Machine Learning Algorithm. <i>International Journal of Precision Engineering and Manufacturing</i> , 2021, 22, 409-416.	2.2	12
102	Development and validation of a hybrid aerodynamic design method for curved diffusers using genetic algorithm and ball-spine inverse design method. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 3021-3036.	6.4	12
103	Rise time-based phosphor thermometry using $Mg_{4}FGeO_{6}:Mn^{4+}$ . <i>Measurement Science and Technology</i> , 2021, 32, 015201.	2.6	12
104	Parametric study of a fluidic oscillator for heat transfer enhancement of a hot plate impinged by a sweeping jet. <i>Applied Thermal Engineering</i> , 2022, 205, 118051.	6.0	12
105	Investigation of turbulent flows in a waterjet intake duct using stereoscopic PIV measurements. <i>Journal of Marine Science and Technology</i> , 2006, 11, 270-278.	2.9	11
106	An orthogonal-plane PIV technique for the investigations of three-dimensional vortical structures in a turbulent boundary layer flow. <i>Experiments in Fluids</i> , 2006, 40, 876-883.	2.4	11
107	<i>IN VITRO</i> HEMODYNAMIC STUDY ON THE STENOTIC RIGHT CORONARY ARTERY USING EXPERIMENTAL AND NUMERICAL ANALYSIS. <i>Journal of Mechanics in Medicine and Biology</i> , 2010, 10, 695-712.	0.7	11
108	Exergy analysis of a combined power cycle using low-grade heat source and LNG cold energy. <i>International Journal of Exergy</i> , 2015, 17, 374.	0.4	11

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109	Heat transfer enhancement and optimization of a tube fitted with twisted tape in a fin-and-tube heat exchanger. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1015-1027.	3.6	11
110	Investigation of the plaque morphology effect on changes of pulsatile blood flow in a stenosed curved artery induced by an external magnetic field. <i>Computers in Biology and Medicine</i> , 2021, 135, 104600.	7.0	11
111	Transient analysis of thermo-fluid phenomena in twin-roll continuous casting. <i>International Journal of Heat and Mass Transfer</i> , 1994, 37, 2059-2068.	4.8	10
112	Measurement of dissolved oxygen concentration field in a microchannel using PtOEP/PS film. <i>Journal of Visualization</i> , 2011, 14, 295-304.	1.8	10
113	Stand-Alone Solar Organic Rankine Cycle Water Pumping System and Its Economic Viability in Nepal. <i>Sustainability</i> , 2016, 8, 18.	3.2	10
114	Enhancement of phase-change evaporators with zeotropic refrigerant mixture using metal foams. <i>International Journal of Heat and Mass Transfer</i> , 2017, 106, 908-919.	4.8	10
115	Thermodynamic Performance Analysis of a Biogas-Fuelled Micro-Gas Turbine with a Bottoming Organic Rankine Cycle for Sewage Sludge and Food Waste Treatment Plants. <i>Energies</i> , 2017, 10, 275.	3.1	10
116	Flow and surface pressure field measurements on a circular cylinder with impingement of turbulent round jet. <i>Experimental Thermal and Fluid Science</i> , 2019, 105, 67-76.	2.7	10
117	Microstructure and mechanical properties of Ni foam/stainless steel joint brazed using Ni-based alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 740-741, 63-70.	5.6	10
118	Geometrical inlet effects on the behavior of a non-premixed fully turbulent syngas combustion; a numerical study. <i>Acta Astronautica</i> , 2021, 189, 1-9.	3.2	10
119	Osteoporosis: New biomedical engineering aspects. <i>Journal of Mechanical Science and Technology</i> , 2006, 20, 2265-2283.	1.5	9
120	Interfacial effect on thermal conductivity of diamond-like carbon films. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 1511-1514.	1.5	9
121	Numerical simulation on the opto-electro-kinetic patterning for rapid concentration of particles in a microchannel. <i>Biomicrofluidics</i> , 2015, 9, 034102.	2.4	9
122	Cubic-Interpolated Pseudo-particle model to predict thermal behavior of a nanofluid. <i>Computers and Fluids</i> , 2018, 164, 102-113.	2.5	9
123	Estimating the non-uniform air velocity distribution for the optimal design of a heat exchanger. <i>Applied Thermal Engineering</i> , 2019, 153, 704-714.	6.0	9
124	Velocity field measurement on natural convection inside an automotive headlamp using time-resolved stereoscopic particle image velocimetry. <i>International Journal of Heat and Fluid Flow</i> , 2019, 77, 19-30.	2.4	9
125	Multi-objective optimization of solar collector using water-based nanofluids with different types of nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 991-1002.	3.6	9
126	Multi-purpose prediction of the various edge cut twisted tape insert characteristics: multilayer perceptron network modeling. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2005-2020.	3.6	9



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127	Experimental study on flow and turbulence characteristics of bubbly jet with low void fraction. <i>International Journal of Multiphase Flow</i> , 2021, 142, 103738.	3.4	9
128	Parallel-expander Organic Rankine cycle using dual expanders with different capacities. <i>Energy</i> , 2016, 113, 204-214.	8.8	8
129	A new method for reducing VOCs formation during crude oil loading process. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 1701-1710.	1.5	8
130	Thermal performance of brazed metalfoam-plate heat exchanger as an evaporator for organic Rankine cycle. <i>Energy Procedia</i> , 2017, 129, 451-458.	1.8	8
131	Study on three-dimensional flow structures of a sweeping jet using time-resolved stereo particle image velocimetry. <i>Experimental Thermal and Fluid Science</i> , 2020, 110, 109945.	2.7	8
132	Energy determines multiple stability in time-delayed systems. <i>Nonlinear Dynamics</i> , 2020, 102, 2399-2416.	5.2	8
133	Evaluation of aerodynamic performance enhancement of RisÅ_B1 airfoil with an optimized cavity by PIV measurement. <i>Journal of Visualization</i> , 2020, 23, 591-603.	1.8	8
134	A study on design and aerodynamic characteristics of a spiral-type wind turbine blade. <i>Journal of the Korean Society of Visualization</i> , 2012, 10, 27-33.	0.1	8
135	Simulation, Validation and Economic Analysis of Solar Powered Organic Rankine Cycle for Electricity Generation. <i>Journal of Clean Energy Technologies</i> , 2015, 3, 62-67.	0.1	8
136	Experimental investigation on flow characteristics of compressible oscillating jet. <i>Physics of Fluids</i> , 2022, 34, .	4.0	8
137	Effects of viscoelasticity on the onset of vortex shedding and forces applied on a cylinder in unsteady flow regime. <i>Physics of Fluids</i> , 2022, 34, .	4.0	8
138	Curvature effect on third-order velocity correlations and its model representation. <i>Physics of Fluids</i> , 1987, 30, 626.	1.4	7
139	Dynamic analysis of bubble-driven liquid flows using time-resolved particle image velocimetry and proper orthogonal decomposition techniques. <i>Journal of Visualization</i> , 2010, 13, 213-220.	1.8	7
140	Hybrid micro-/nano-particle image velocimetry for 3D3C multi-scale velocity field measurement in microfluidics. <i>Measurement Science and Technology</i> , 2011, 22, 064001.	2.6	7
141	Visualization study on the transient liquid film behavior and inner gas flow after rupture of a soap bubble. <i>Journal of Visualization</i> , 2014, 17, 337-344.	1.8	7
142	CFD Study on Aerodynamic Power Output Changes with Inter-Turbine Spacing Variation for a 6 MW Offshore Wind Farm. <i>Energies</i> , 2014, 7, 7483-7498.	3.1	7
143	Performance and Greenhouse Gas Reduction Analysis of Biogas-Fueled Solid-Oxide Fuel Cells for a Sewage Sludge and Food Waste Treatment Facility. <i>Energies</i> , 2018, 11, 600.	3.1	7
144	De-icing of fuel/oil heat exchange systems via fuel flow direction switching device. <i>Aerospace Science and Technology</i> , 2019, 89, 77-88.	4.8	7

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145	Experimental Study on Physical Behavior of Fluidic Oscillator in a Confined Cavity with Sudden Expansion. Applied Sciences (Switzerland), 2020, 10, 8668.	2.5	7
146	Visualization of nanofluid flow field by adaptive-network-based fuzzy inference system (ANFIS) with cubic interpolation particle approach. Journal of Visualization, 2020, 23, 259-267.	1.8	7
147	Assessment of a cylindrical porous radiant burner with internal combustion regime for sustainable energy: Numerical analysis of the radiant efficiency and NO production. Sustainable Energy Technologies and Assessments, 2021, 43, 100974.	2.7	7
148	Simultaneous measurement of two-dimensional temperature and strain fields based on thermographic phosphor and digital image correlation. Measurement Science and Technology, 2021, 32, 095204.	2.6	7
149	Investigation of interaction between solitary wave and two submerged rectangular obstacles. Ocean Engineering, 2021, 237, 109659.	4.3	7
150	Spatial and temporal structures of turbulent bubble-driven flows in a rectangular water tank. Journal of Mechanical Science and Technology, 2010, 24, 1819-1827.	1.5	6
151	Dynamic structures of bubble-driven liquid flows in a cylindrical tank. Experiments in Fluids, 2012, 53, 21-35.	2.4	6
152	Structure Analysis of a Low Reynolds Number Turbulent Submerged Jet Interacting With a Free Surface. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.5	6
153	An organic Rankine cycle for two different heat sources: steam and hot water. Energy Procedia, 2017, 129, 883-890.	1.8	6
154	An experimental study on the characteristics of ejector-generated bubble swarms. Journal of Visualization, 2018, 21, 711-728.	1.8	6
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