Kyung-Chun Kim

List of Publications by Year in descending order

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253 papers 4,370 citations

34 h-index 53 g-index

254 all docs

254 docs citations

times ranked

254

3319 citing authors

#	Article	IF	CITATIONS
1	Effect of plaque geometry on targeted delivery of stem cells containing magnetic particles in a rigid and elastic curved artery with stenosis. Journal of Magnetism and Magnetic Materials, 2022, 542, 168580.	2.3	4
2	Progress and challenges on the thermal management of electrochemical energy conversion and storage technologies: Fuel cells, electrolysers, and supercapacitors. Progress in Energy and Combustion Science, 2022, 88, 100966.	31.2	108
3	Design modification of two-dimensional supersonic ejector via the adjoint method. Applied Thermal Engineering, 2022, 200, 117674.	6.0	6
4	Three-dimensional condensation in a vertical channel filled with metal foam using a pseudo-potential lattice Boltzmann model. International Journal of Thermal Sciences, 2022, 172, 107352.	4.9	4
5	Prediction of supercavitation shapes for a wide range of Froude numbers. International Journal of Naval Architecture and Ocean Engineering, 2022, 14, 100426.	2.3	3
6	Experimental investigation on flow characteristics of compressible oscillating jet. Physics of Fluids, 2022, 34, .	4.0	8
7	Effects of viscoelasticity on the onset of vortex shedding and forces applied on a cylinder in unsteady flow regime. Physics of Fluids, 2022, 34, .	4.0	8
8	Influence of slip velocity in a two-phase bubbly jet. Journal of Fluid Mechanics, 2022, 935, .	3.4	2
9	Parametric study of a fluidic oscillator for heat transfer enhancement of a hot plate impinged by a sweeping jet. Applied Thermal Engineering, 2022, 205, 118051.	6.0	12
10	Two-dimensional visualization of oxygen concentration field at high-temperature environment using phosphor Y2O3:Eu3+. Sensors and Actuators B: Chemical, 2022, 364, 131884.	7.8	3
11	Experimental study of turbulent bubbly jet. Part 1. Simultaneous measurement of three-dimensional velocity fields of bubbles and water. Journal of Fluid Mechanics, 2022, 941, .	3.4	3
12	Visualization of supersonic free jet flow structures subjected to various temperature and pressure ratio conditions. Optics and Lasers in Engineering, 2022, 158, 107144.	3.8	5
13	PIV measurement of turbulent flow characteristics inside an open-cell metal foam replica. Optics and Lasers in Engineering, 2022, 158, 107143.	3.8	2
14	Developing mathematical modeling of the heat and mass transfer in a planar micro-combustor with detailed reaction mechanisms. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2679-2694.	3.6	5
15	Acquisition of kHz-frequency two-dimensional surface temperature field using phosphor thermometry and proper orthogonal decomposition assisted long short-term memory neural networks. International Journal of Heat and Mass Transfer, 2021, 165, 120662.	4.8	15
16	Visualization of foam formation from vertically free-falling impinging water jet. Journal of Visualization, 2021, 24, 9-17.	1.8	2
17	Full Three-Dimensional Inverse Design Method for S-Ducts Using a New Dimensionless Flow Parameter. Applied Sciences (Switzerland), 2021, 11, 1119.	2.5	3
18	Structure Generated Turbulence: Laminar Flow Through Metal Foam Replica. Lecture Notes in Mechanical Engineering, 2021, , 275-281.	0.4	0

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19	Misalignment Detection of a Rotating Machine Shaft Using a Support Vector Machine Learning Algorithm. International Journal of Precision Engineering and Manufacturing, 2021, 22, 409-416.	2.2	12
20	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
21	Assessment of a District Trigeneration Biomass Powered Double Organic Rankine Cycle as Primed Mover and Supported Cooling. Energies, 2021, 14, 1030.	3.1	4
22	Inverse design of 3D curved ducts using a 3D-upgraded ball-spine algorithm. Inverse Problems in Science and Engineering, 2021, 29, 1946-1980.	1.2	1
23	Quantitative visualization of the mixing characteristics of a multilayer static mixer by planar laser-induced fluorescence. Journal of Visualization, 2021, 24, 671-681.	1.8	4
24	Inverse shape design method based on pressure and shear stress for separated flow via Elastic Surface Algorithm. Inverse Problems in Science and Engineering, 2021, 29, 2357-2400.	1.2	1
25	Experimental study of flow structures of a solitary wave over two rectangular tandem obstacles. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	0
26	Phosphorescence-Based Flexible and Transparent Optical Temperature-Sensing Skin Capable of Operating in Extreme Environments. ACS Applied Polymer Materials, 2021, 3, 2461-2469.	4.4	20
27	Flow Pattern Map of Flow Boiling in a Rectangular Channel Filled with Porous Media. Energies, 2021, 14, 2440.	3.1	2
28	Analysis of entropy generation and thermal–hydraulic of various plate-pin fin-splitter heat recovery systems using Al2O3/H2O nanofluid. European Physical Journal Plus, 2021, 136, 1.	2.6	4
29	Aerodynamic Inverse Design of Transonic Compressor Cascades with Stabilizing Elastic Surface Algorithm. Applied Sciences (Switzerland), 2021, 11, 4845.	2.5	1
30	Sound pressure level spectrum analysis by combination of 4D PTV and ANFIS method around automotive side-view mirror models. Scientific Reports, 2021, 11, 11155.	3.3	4
31	Multi-purpose prediction of the various edge cut twisted tape insert characteristics: multilayer perceptron network modeling. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2005-2020.	3.6	9
32	Time-Resolved PIV Measurements and Turbulence Characteristics of Flow Inside an Open-Cell Metal Foam. Materials, 2021, 14, 3566.	2.9	2
33	Development and validation of a hybrid aerodynamic design method for curved diffusers using genetic algorithm and ball-spine inverse design method. AEJ - Alexandria Engineering Journal, 2021, 60, 3021-3036.	6.4	12
34	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
35	Simulation of methane steam reforming in a catalytic micro-reactor using a combined analytical approach and response surface methodology. International Journal of Hydrogen Energy, 2021, 46, 22763-22776.	7.1	16
36	Experimental investigation of flow dynamics of oscillating jet emitted in confined and non-confined backward-facing step geometries. European Journal of Mechanics, B/Fluids, 2021, 88, 89-102.	2. 5	5

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37	Effect of nature-inspired needle-shaped vortex generators on the aerodynamic features of a double-delta wing. International Journal of Mechanical Sciences, 2021, 202-203, 106502.	6.7	2
38	Experimental study on flow characteristics and heat transfer of an oscillating jet in a cross flow. International Journal of Heat and Mass Transfer, 2021, 173, 121208.	4.8	15
39	Effect of Metal Foam Insert Configurations on Flow Boiling Heat Transfer and Pressure Drop in a Rectangular Channel. Materials, 2021, 14, 4617.	2.9	1
40	Investigation of the plaque morphology effect on changes of pulsatile blood flow in a stenosed curved artery induced by an external magnetic field. Computers in Biology and Medicine, 2021, 135, 104600.	7.0	11
41	Effect of Infrared Oxide Catalysts on Water Splitting for Green Energy. ChemElectroChem, 2021, 8, 2944-2949.	3.4	6
42	A novel optimization approach for axial turbine blade cascade via combination of a continuous-curvature parameterization method and genetic algorithm. Journal of Mechanical Science and Technology, 2021, 35, 3989-4000.	1.5	1
43	Flow features of a new fluidic oscillator using time-resolved PIV measurement and 3D numerical simulation. European Physical Journal Plus, 2021, 136, 1.	2.6	4
44	Experimental study on flow and turbulence characteristics of bubbly jet with low void fraction. International Journal of Multiphase Flow, 2021, 142, 103738.	3.4	9
45	Soft computing analysis of thermohydraulic enhancement using twisted tapes in a flat-plate solar collector: Sensitivity analysis and multi-objective optimization. Journal of Cleaner Production, 2021, 314, 127947.	9.3	20
46	Performance assessment and multi-objective optimization of an organic Rankine cycles and vapor compression cycle based combined cooling, heating, and power system. Sustainable Energy Technologies and Assessments, 2021, 47, 101457.	2.7	4
47	Investigation of interaction between solitary wave and two submerged rectangular obstacles. Ocean Engineering, 2021, 237, 109659.	4.3	7
48	Geometrical inlet effects on the behavior of a non-premixed fully turbulent syngas combustion; a numerical study. Acta Astronautica, 2021, 189, 1-9.	3.2	10
49	Rise time-based phosphor thermometry using Mg ₄ FGeO ₆ :Mn ⁴⁺ . Measurement Science and Technology, 2021, 32, 015201.	2.6	12
50	Integrated Vapor Compression Chiller with Bottoming Organic Rankine Cycle and Onsite Low-Grade Renewable Energy. Energies, 2021, 14, 6401.	3.1	2
51	Phosphorescence-based temperature and tactile multi-functional flexible sensing skin. Sensors and Actuators A: Physical, 2021, 332, 113205.	4.1	2
52	Two-dimensional lifetime-based kHz surface temperature measurement technique using phosphor thermometry. Applied Physics Letters, 2021, 119, 244101.	3.3	4
53	Energy harvesting performance of an EDLC power generator based on pure water and glycerol mixture: analytical modeling and experimental validation. Scientific Reports, 2021, 11, 23426.	3.3	1
54	Multi-objective optimization of solar collector using water-based nanofluids with different types of nanoparticles. Journal of Thermal Analysis and Calorimetry, 2020, 140, 991-1002.	3.6	9

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55	Study on three-dimensional flow structures of a sweeping jet using time-resolved stereo particle image velocimetry. Experimental Thermal and Fluid Science, 2020, 110, 109945.	2.7	8
56	Heat transfer enhancement and optimization of a tube fitted with twisted tape in a fin-and-tube heat exchanger. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1015-1027.	3.6	11
57	Lattice Boltzmann simulation of diluted gas flow inside irregular shape microchannel by two relaxation times on the basis of wall function approach. Vacuum, 2020, 173, 109104.	3.5	12
58	Flow characteristics of a wall-attaching oscillating jet over single-wall and double-wall geometries. Experimental Thermal and Fluid Science, 2020, 112, 110009.	2.7	18
59	Design of a novel vortex-based feedback fluidic oscillator with numerical evaluation. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 1302-1324.	3.1	6
60	The influence of kinematics of blades on the flow structure in deep dynamic stall. Journal of Mechanical Science and Technology, 2020, 34, 2855-2868.	1.5	2
61	Real-gas effects: The state of the art of organic Rankine cycles. Journal of Cleaner Production, 2020, 277, 124102.	9.3	5
62	Effects of elasticity on unsteady forced convective heat transfer of viscoelastic fluid around a cylinder in the presence of viscous dissipation. Physics of Fluids, 2020, 32, 083102.	4.0	3
63	Experimental and numerical study on flow characteristics and heat transfer of an oscillating jet in a channel. International Journal of Heat and Fluid Flow, 2020, 86, 108701.	2.4	23
64	Near-Optimal Weather Routing by Using Improved A* Algorithm. Applied Sciences (Switzerland), 2020, 10, 6010.	2.5	23
65	Experimental Study on Physical Behavior of Fluidic Oscillator in a Confined Cavity with Sudden Expansion. Applied Sciences (Switzerland), 2020, 10, 8668.	2.5	7
66	Energy determines multiple stability in time-delayed systems. Nonlinear Dynamics, 2020, 102, 2399-2416.	5.2	8
67	Effect of hydrogen addition on conjugate heat transfer in a planar micro-combustor with the detailed reaction mechanism: An analytical approach. International Journal of Hydrogen Energy, 2020, 45, 15425-15440.	7.1	23
68	Robotic PTV study of the flow around automotive side-view mirror models. Experimental Thermal and Fluid Science, 2020, 119, 110202.	2.7	6
69	Jet impingement using an adjustable spreading-angle sweeping jet. Aerospace Science and Technology, 2020, 105, 105956.	4.8	18
70	Evaluation of aerodynamic performance enhancement of Ris $\tilde{A}_{\perp}B1$ airfoil with an optimized cavity by PIV measurement. Journal of Visualization, 2020, 23, 591-603.	1.8	8
71	A novel self-seeding method for particle image velocimetry measurements of subsonic and supersonic flows. Scientific Reports, 2020, 10, 10834.	3.3	3
72	Experimental study on heat transfer and flow structures of feedback-free sweeping jet impinging on a flat surface. International Journal of Heat and Mass Transfer, 2020, 159, 120085.	4.8	17

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73	Cylindrical porous radiant burner with internal combustion regime: Energy saving analysis using response surface method. Energy, 2020, 207, 118231.	8.8	16
74	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
75	The influence of cubic real-gas equations of state in the supersonic regime of dense gases. Journal of Mechanical Science and Technology, 2020, 34, 1581-1589.	1.5	2
76	Aerodynamic performance improvement of wind turbine blade by cavity shape optimization. Renewable Energy, 2019, 132, 773-785.	8.9	26
77	Time-resolved turbulent velocity field reconstruction using a long short-term memory (LSTM)-based artificial intelligence framework. Physics of Fluids, 2019, 31, .	4.0	73
78	Flow-pattern-based experimental analysis of convective boiling heat transfer in a rectangular channel filled with open-cell metallic random porous media. International Journal of Heat and Mass Transfer, 2019, 142, 118402.	4.8	17
79	An experimental study on the flow and heat transfer of an impinging synthetic jet. International Journal of Heat and Mass Transfer, 2019, 144, 118626.	4.8	25
80	Effect of acicular vortex generators on the aerodynamic features of a slender delta wing. Aerospace Science and Technology, 2019, 86, 327-340.	4.8	16
81	Speed Control for Turbine-Generator of ORC Power Generation System and Experimental Implementation. Energies, 2019, 12, 200.	3.1	5
82	Investigation of naturally ventilated shavadoons component: Architectural underground pattern on ventilation. Tunnelling and Underground Space Technology, 2019, 91, 102990.	6.2	6
83	Experimental and numerical investigation of three-dimensional vortex structures of a pitching airfoil at a transitional Reynolds number. Chinese Journal of Aeronautics, 2019, 32, 2254-2266.	5.3	18
84	Effects of coarse riblets on air flow structures over a slender delta wing using particle image velocimetry. Chinese Journal of Aeronautics, 2019, 32, 1367-1379.	5.3	3
85	12th International Symposium on Particle Image Velocimetry (PIV 2017). Measurement Science and Technology, 2019, 30, 020102.	2.6	0
86	Secondary flow mixing of neutralizing reagent induced by U-bent de-ballast pipes. Journal of Mechanical Science and Technology, 2019, 33, 2161-2167.	1.5	1
87	Performance assessment and multi objective optimization of an Organic Rankine Cycle driven cooling air conditioning system. Energy and Buildings, 2019, 191, 13-30.	6.7	23
88	Flow and surface pressure field measurements on a circular cylinder with impingement of turbulent round jet. Experimental Thermal and Fluid Science, 2019, 105, 67-76.	2.7	10
89	Measurement of two-dimensional heat transfer and flow characteristics of an impinging sweeping jet. International Journal of Heat and Mass Transfer, 2019, 136, 415-426.	4.8	50
90	Estimating the non-uniform air velocity distribution for the optimal design of a heat exchanger. Applied Thermal Engineering, 2019, 153, 704-714.	6.0	9

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91	Velocity field measurement on natural convection inside an automotive headlamp using time-resolved stereoscopic particle image velocimetry. International Journal of Heat and Fluid Flow, 2019, 77, 19-30.	2.4	9
92	De-icing of fuel/oil heat exchange systems via fuel flow direction switching device. Aerospace Science and Technology, 2019, 89, 77-88.	4.8	7
93	Potentials of porous materials for energy management in heat exchangers – A comprehensive review. Applied Energy, 2019, 243, 206-232.	10.1	144
94	Lattice Boltzmann model of percutaneous drug absorption. Theoretical and Applied Mechanics Letters, 2019, 9, 1-6.	2.8	3
95	An experimental study on the effect of a novel nature-inspired 3D-serrated leading edge on the aerodynamic performance of a double delta wing in the transitional flow regime. Journal of Mechanical Science and Technology, 2019, 33, 5913-5921.	1.5	5
96	Super-resolution reconstruction of turbulent velocity fields using a generative adversarial network-based artificial intelligence framework. Physics of Fluids, 2019, 31, .	4.0	115
97	An evaluation of wind turbine waste heat recovery using organic Rankine cycle. Journal of Cleaner Production, 2019, 214, 705-716.	9.3	33
98	Wake/shear layer interaction for low-Reynolds-number flow over multi-element airfoil. Experiments in Fluids, $2019, 60, 1$.	2.4	12
99	An experimental study on the thermal and hydraulic characteristics of open-cell nickel and copper foams for compact heat exchangers. International Journal of Heat and Mass Transfer, 2019, 130, 162-174.	4.8	13
100	Microstructure and mechanical properties of Ni foam/stainless steel joint brazed using Ni-based alloy. Materials Science & Diplication (2018) and Processing, 2019, 740-741, 63-70.	5.6	10
101	Three-dimensional particle behavior using defocusing method in micro-toroidal vortex generated by optoelectrokinetic flow. Journal of Visualization, 2018, 21, 569-583.	1.8	1
102	Effect of crossflow velocity on underwater bubble swarms. International Journal of Multiphase Flow, 2018, 105, 60-73.	3.4	14
103	Experimental study of square riblets effects on delta wing using smoke visualization and force measurement. Journal of Visualization, 2018, 21, 421-432.	1.8	4
104	A numerical comparison between ideal and dense gas flow structures in the supersonic regime for a cascade of wedge-shaped straight plates. Applied Thermal Engineering, 2018, 137, 774-783.	6.0	2
105	Cubic-Interpolated Pseudo-particle model to predict thermal behavior of a nanofluid. Computers and Fluids, 2018, 164, 102-113.	2.5	9
106	Microfluidic method for measuring viscosity using images from smartphone. Optics and Lasers in Engineering, 2018, 104, 237-243.	3.8	40
107	Flow Characteristics of Three-Dimensional Curved Wall Jets on a Cylinder. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	1.5	17
108	Performance Analysis of Biogas-Fueled SOFC/MGT Hybrid Power System in Busan, Republic of Korea. Proceedings (mdpi), 2018, 2, .	0.2	5

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109	An experimental study on the characteristics of ejector-generated bubble swarms. Journal of Visualization, 2018, 21, 711-728.	1.8	6
110	Shape optimization of flow channels based on lattice Boltzmann method. Journal of Mechanical Science and Technology, 2018, 32, 2619-2627.	1.5	2
111	Characteristics of bubble-induced liquid flows in a rectangular tank. Experimental Thermal and Fluid Science, 2018, 97, 21-35.	2.7	14
112	Experimental study of the effect of brazed compact metal-foam evaporator in an organic Rankine cycle performance: Toward a compact ORC. Energy Conversion and Management, 2018, 173, 37-45.	9.2	30
113	Kelvin-cell-based metal foam heat exchanger with elliptical struts for low energy consumption. Applied Thermal Engineering, 2018, 144, 540-550.	6.0	37
114	Performance and Greenhouse Gas Reduction Analysis of Biogas-Fueled Solid-Oxide Fuel Cells for a Sewage Sludge and Food Waste Treatment Facility. Energies, 2018, 11, 600.	3.1	7
115	Design, Fabrication, and Performance Test of a 100-W Helical-Blade Vertical-Axis Wind Turbine at Low Tip-Speed Ratio. Energies, 2018, 11, 1517.	3.1	27
116	A model for rising bubbles interacting with crossflowing liquid. International Journal of Multiphase Flow, 2018, 108, 94-104.	3.4	4
117	Biomechanical Study on the Convenience of Loading and Unloading Laundry in Clothes Dryer. International Journal of Precision Engineering and Manufacturing, 2018, 19, 907-915.	2.2	2
118	Enhancement of momentum transfer of bubble swarms using an ejector with water injection. Energy, 2018, 162, 892-909.	8.8	13
119	Development of a 200-kW Organic Rankine Cycle Power System for Low-Grade Waste Heat Recovery. Journal of Clean Energy Technologies, 2018, 6, 121-124.	0.1	3
120	Upward gas–liquid two-phase flow after a U-bend in a large-diameter serpentine pipe. International Journal of Heat and Mass Transfer, 2017, 108, 784-800.	4.8	22
121	Interfacial friction in upward annular gas–liquid two-phase flow in pipes. Experimental Thermal and Fluid Science, 2017, 84, 90-109.	2.7	48
122	Investigation of organic Rankine cycles with zeotropic mixtures as a working fluid: Advantages and issues. Renewable and Sustainable Energy Reviews, 2017, 73, 1000-1013.	16.4	124
123	Prediction of entrained droplet fraction in co-current annular gas–liquid flow in vertical pipes. Experimental Thermal and Fluid Science, 2017, 85, 287-304.	2.7	30
124	Temporal and spatial flow structures in a simulated vessel with stenotic lesion using time-resolved PIV technique. Journal of Visualization, 2017, 20, 833-845.	1.8	3
125	A new method for reducing VOCs formation during crude oil loading process. Journal of Mechanical Science and Technology, 2017, 31, 1701-1710.	1.5	8
126	A feasibility study of solar energy in South Korea. Renewable and Sustainable Energy Reviews, 2017, 77, 566-579.	16.4	63

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127	Two-dimensional thermographic phosphor thermometry in a cryogenic environment. Measurement Science and Technology, 2017, 28, 015201.	2.6	12
128	An organic Rankine cycle for two different heat sources: steam and hot water. Energy Procedia, 2017, 129, 883-890.	1.8	6
129	Thermoeconomic 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. Applied Thermal Engineering, 2017, 127, 963-974.	6.0	56
130	Effect of frost on phosphorescence for thermographic phosphor thermometry. Measurement Science and Technology, 2017, 28, 125202.	2.6	2
131	Thermal performance of brazed metalfoam-plate heat exchanger as an evaporator for organic Rankine cycle. Energy Procedia, 2017, 129, 451-458.	1.8	8
132	Development of a dual optical fiber probe for the hydrodynamic investigation of a horizontal annular drive gas/liquid ejector. Flow Measurement and Instrumentation, 2017, 56, 45-55.	2.0	17
133	Enhancement of phase-change evaporators with zeotropic refrigerant mixture using metal foams. International Journal of Heat and Mass Transfer, 2017, 106, 908-919.	4.8	10
134	Experimental heat transfer and pressure drop in a metal-foam-filled tube heat exchanger. Experimental Thermal and Fluid Science, 2017, 82, 42-49.	2.7	44
135	A novel lifetime-based phosphor thermography using three-gate scheme and a low frame-rate camera. Experimental Thermal and Fluid Science, 2017, 80, 53-60.	2.7	19
136	Simultaneous measurement of temperature and velocity fields using thermographic phosphor tracer particles. Journal of Visualization, 2017, 20, 305-319.	1.8	16
137	Thermodynamic Performance Analysis of a Biogas-Fuelled Micro-Gas Turbine with a Bottoming Organic Rankine Cycle for Sewage Sludge and Food Waste Treatment Plants. Energies, 2017, 10, 275.	3.1	10
138	Aerodynamic Analysis of a Helical Vertical Axis Wind Turbine. Energies, 2017, 10, 575.	3.1	37
139	Characteristics of pulsatile flows in curved stenosed channels. PLoS ONE, 2017, 12, e0186300.	2.5	19
140	Stand-Alone Solar Organic Rankine Cycle Water Pumping System and Its Economic Viability in Nepal. Sustainability, 2016, 8, 18.	3.2	10
141	Comparison of lifetime-based methods for 2D phosphor thermometry in high-temperature environment. Measurement Science and Technology, 2016, 27, 095201.	2.6	17
142	Experimental study on single-phase heat transfer and pressure drop of refrigerants in a plate heat exchanger with metal-foam-filled channels. Applied Thermal Engineering, 2016, 102, 423-431.	6.0	32
143	Flow boiling visualization and heat transfer in metal-foam-filled mini tubes – Part II: Developing predictive methods for heat transfer coefficient and pressure drop. International Journal of Heat and Mass Transfer, 2016, 98, 868-878.	4.8	27
144	Working fluids selection and parametric optimization of an Organic Rankine Cycle coupled Vapor Compression Cycle (ORC-VCC) for air conditioning using low grade heat. Energy and Buildings, 2016, 129, 378-395.	6.7	75

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145	Parallel-expander Organic Rankine cycle using dual expanders with different capacities. Energy, 2016, 113, 204-214.	8.8	8
146	CFD study on aerodynamic power output of a $110\mathrm{kW}$ building augmented wind turbine. Energy and Buildings, $2016, 129, 162-173$.	6.7	41
147	Performance characteristics of a 200-kW organic Rankine cycle system in a steel processing plant. Applied Energy, 2016, 183, 623-635.	10.1	52
148	Transient temperature field and heat transfer measurement of oblique jet impingement by thermographic phosphor. International Journal of Heat and Mass Transfer, 2016, 102, 691-702.	4.8	37
149	Effect of ligament hollowness on heat transfer characteristics of open-cell metal foam. International Journal of Heat and Mass Transfer, 2016, 102, 911-918.	4.8	35
150	Numerical investigations on flow structure and behavior of vortices in the dynamic stall of an oscillating pitching hydrofoil. Ocean Engineering, 2016, 127, 200-211.	4.3	51
151	Effect of surface moisture on chemically bonded phosphor for thermographic phosphor thermometry. Measurement Science and Technology, 2016, 27, 097003.	2.6	2
152	Effect of the wind direction on the near wake structures of an Archimedes spiral wind turbine blade. Journal of Visualization, 2016, 19, 653-665.	1.8	12
153	Effect of gravity vector on flow boiling heat transfer, flow pattern map, and pressure drop of R245fa refrigerant in mini tubes. International Journal of Multiphase Flow, 2016, 83, 202-216.	3.4	23
154	Flow boiling visualization and heat transfer in metal-foam-filled mini tubes – Part I: Flow pattern map and experimental data. International Journal of Heat and Mass Transfer, 2016, 98, 857-867.	4.8	39
155	Thermal performance of a 10-kW phase-change plate heat exchanger with metal foam filled channels. Applied Thermal Engineering, 2016, 99, 790-801.	6.0	33
156	Application of metal foam heat exchangers for a high-performance liquefied natural gas regasification system. Energy, 2016, 105, 57-69.	8.8	37
157	Quantitative visualization study on diffusion of oxygen using UV-LED induced phosphorescence. Journal of Visualization, 2016, 19, 591-601.	1.8	3
158	Thermodynamic analysis of a novel dual-loop organic Rankine cycle for engine waste heat and LNG cold. Applied Thermal Engineering, 2016, 100, 1031-1041.	6.0	113
159	Flow boiling characteristics of R134a and R245fa mixtures in a vertical circular tube. Experimental Thermal and Fluid Science, 2016, 72, 112-124.	2.7	31
160	CFD and experiment validation on aerodynamic power output of small VAWT with low tip speed ratio. Journal of Advanced Marine Engineering and Technology, 2016, 40, 330-335.	0.4	3
161	A Mathematical Model of Hourly Solar Radiation in Varying Weather Conditions for a Dynamic Simulation of the Solar Organic Rankine Cycle. Energies, 2015, 8, 7058-7069.	3.1	25
162	Exergy analysis of a combined power cycle using low-grade heat source and LNG cold energy. International Journal of Exergy, 2015, 17, 374.	0.4	11

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163	Experimental study of a 1Âkw organic Rankine cycle with a zeotropic mixture of R245fa/R134a. Energy, 2015, 93, 2363-2373.	8.8	67
164	Development of capacity modulation compressor based on a two stage rotary compressor – part I: Modeling and simulation of compressor performance. International Journal of Refrigeration, 2015, 54, 22-37.	3.4	14
165	Dynamic behavior and micro-explosion characteristics of impinging droplets on a high-temperature surface. Journal of Visualization, 2015, 18, 59-70.	1.8	5
166	Experimental and Thermoeconomic Analysis of Small-Scale Solar Organic Rankine Cycle (SORC) System. Entropy, 2015, 17, 2039-2061.	2.2	68
167	Dual parallel organic Rankine cycle (ORC) system for high efficiency waste heat recovery in marine application. Journal of Mechanical Science and Technology, 2015, 29, 2509-2515.	1.5	38
168	Lattice Boltzmann simulation of the three-dimensional motions of particles with various density ratios in lid-driven cavity flow. Applied Mathematics and Computation, 2015, 265, 826-843.	2.2	17
169	Experimental investigation of an organic Rankine cycle with multiple expanders used in parallel. Applied Energy, 2015, 145, 246-254.	10.1	58
170	A combined Dual Hot-Gas Bypass Defrosting method with accumulator heater for an air-to-air heat pump in cold region. Applied Energy, 2015, 147, 344-352.	10.1	68
171	Photo-bleaching characteristics of oxygen-sensitive particles. Journal of Visualization, 2015, 18, 321-333.	1.8	0
172	Visualization study on the behaviors of oscillating liquid bridge between two parallel plates with surface treatments. Journal of Visualization, 2015, 18, 531-542.	1.8	1
173	Comparative study of hydrodynamic characteristics with respect to direction of installation of gas-liquid ejector system. Journal of Mechanical Science and Technology, 2015, 29, 3267-3276.	1.5	5
174	Numerical simulation on the opto-electro-kinetic patterning for rapid concentration of particles in a microchannel. Biomicrofluidics, 2015, 9, 034102.	2.4	9
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