

Stephan Kabelac

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

1,990
citations

18
h-index

43
g-index

148
ext. papers

2,236
ext. citations

3
avg, IF

4.86
L-index

#	Paper	IF	Citations
101	System Simulation and Analysis of an LNG-Fueled SOFC System Using Additively Manufactured High Temperature Heat Exchangers. <i>Energies</i> , 2022 , 15, 941	3.1	2
100	Coupled Transport Effects in Solid Oxide Fuel Cell Modeling.. <i>Entropy</i> , 2022 , 24,	2.8	2
99	Flow pattern, heat transfer and frictional pressure drop investigation of R365mfc condensation in a micro-structured corrugated gap with mixed angles. <i>Applied Thermal Engineering</i> , 2022 , 201, 117812	5.8	
98	R410A flow condensation inside two dimensional micro-fin tubes and three dimensional dimple tubes. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 182, 121910	4.9	2
97	Influence of axial heat conduction in solid walls and fins on the overall thermal performance of an additively manufactured high-temperature heat exchanger. <i>Applied Thermal Engineering</i> , 2022 , 118566	5.8	0
96	Impact of Carbon Dioxide on the Non-Catalytic Thermal Decomposition of Methane. <i>ChemEngineering</i> , 2021 , 5, 12	2.6	
95	A novel method to determine the transport coefficients of an YSZ electrolyte based on impedance spectroscopy. <i>Solid State Ionics</i> , 2021 , 363, 115591	3.3	1
94	Identification of Existing Challenges and Future Trends for the Utilization of Ammonia-Water Absorption Compression Heat Pumps at High Temperature Operation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4635	2.6	0
93	Analyses of thermal performance and pressure drop in a plate heat exchanger filled with ferrofluids under a magnetic field. <i>Fuel</i> , 2021 , 293, 120432	7.1	18
92	Condensation quasi-local heat transfer and frictional pressure drop of R1234ze(E) and R134a in a micro-structured plate heat exchanger. <i>Applied Thermal Engineering</i> , 2021 , 197, 117404	5.8	2
91	Conjugate heat transfer analysis of bubble growth during flow boiling in a rectangular microchannel. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 181, 121828	4.9	2
90	Hydrogen production by methane decomposition: Analysis of thermodynamic carbon properties and process evaluation. <i>Energy Conversion and Management</i> , 2020 , 221, 113125	10.6	8
89	The single-blow transient test technique using pulse change inlet condition with optimized pulse width and matching time. <i>Heat and Mass Transfer</i> , 2020 , 56, 963-972	2.2	0
88	Water Management of PEM Fuel Cell Systems Based on the Humidity Distribution in the Anode Gas Channels. <i>Fuel Cells</i> , 2020 , 20, 477-486	2.9	5
87	Femtosecond Laser-Induced Surface Modification of the Electrolyte in Solid Oxide Electrolysis Cells. <i>Energies</i> , 2020 , 13, 6562	3.1	1
86	Experimental investigation of a thermocell with proton exchange membrane and hydrogen electrodes. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 12680-12690	6.7	2
85	On the Controversy of Nanofluid Rheological Behavior. <i>International Journal of Thermophysics</i> , 2019 , 40, 1	2.1	5

84	Nusselt numbers from numerical investigations of turbulent flow in highly eccentric horizontal annuli. <i>International Communications in Heat and Mass Transfer</i> , 2019 , 109, 104344	5.8	2
83	Energie- und Stofftransport in Temperatur- und Konzentrationsfeldern 2019 , 1-33		
82	K1 Wärmestrahlung technischer Oberflächen. <i>Springer Reference Technik</i> , 2019 , 1183-1199	0.1	
81	Grundlagen der Technischen Thermodynamik 2019 , 1-29		
80	Phasen- und Reaktionsgleichgewichte 2019 , 1-24		
79	Stoffmodelle der Technischen Thermodynamik 2019 , 1-29		
78	Exergy analysis of the diesel pre-reforming SOFC-system with anode off-gas recycling in the SchIBZ project. Part II: System exergetic evaluation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10916-10924	6.7	7
77	Experimental results of an absorption-compression heat pump using the working fluid ammonia/water for heat recovery in industrial processes. <i>International Journal of Refrigeration</i> , 2019 , 99, 59-68	3.8	4
76	Multi-stream Plate-and-Frame Heat Exchangers for Condensation and Evaporation 2018 , 167-187		1
75	Approach to the Coulomb Contribution of Thermodynamic Properties from the Mean Electrostatic Potential of the Ions in $(ZrO_2)_{1-x}(Y_2O_3)_x$. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 62-70	3.8	3
74	Impact of Multi-Causal Transport Mechanisms in an Electrolyte Supported Planar SOFC with $(ZrO)(YO)$ Electrolyte. <i>Entropy</i> , 2018 , 20,	2.8	3
73	Fundamental Material Properties of the $2LiBH_4-MgH_2$ Reactive Hydride Composite for Hydrogen Storage: (I) Thermodynamic and Heat Transfer Properties. <i>Energies</i> , 2018 , 11, 1081	3.1	21
72	Exergy analysis of the diesel pre-reforming solid oxide fuel cell system with anode off-gas recycling in the SchIBZ project. Part I: Modeling and validation. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 16684-16693	6.7	23
71	Wärmestrahlung technischer Oberflächen. <i>Springer Reference Technik</i> , 2018 , 1-17	0.1	
70	Radiation and Energetic Analysis of Nanofluid Based Volumetric Absorbers for Concentrated Solar Power. <i>Nanomaterials</i> , 2018 , 8,	5.4	6
69	Modeling a thermocell with proton exchange membrane and hydrogen electrodes. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 19841-19850	6.7	3
68	Fundamental Material Properties of the $2LiBH_4-MgH_2$ Reactive Hydride Composite for Hydrogen Storage: (II) Kinetic Properties. <i>Energies</i> , 2018 , 11, 1170	3.1	16
67	A Diffusivity Study of $(Sc_2O_3)_{0.1}(CeO_2)_{0.01}(ZrO_2)_{0.89}$ between 1100 and 1500 K at Zero Pressure with Molecular Dynamics. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 1955-1960	2.8	5

66	Bi-level heat exchanger network synthesis with evolution method for structure optimization and memetic particle swarm optimization for parameter optimization. <i>Engineering Optimization</i> , 2017 , 49, 401-416	2	16
65	The single-blow transient testing technique for offset and wavy fins of compact plate-fin heat exchangers. <i>Applied Thermal Engineering</i> , 2017 , 111, 1588-1595	5.8	15
64	Experimental investigation of the flow pattern, pressure drop and void fraction of two-phase flow in the corrugated gap of a plate heat exchanger. <i>International Journal of Multiphase Flow</i> , 2017 , 91, 155-169	3.6	27
63	Simulation and experimental validation of a 400 m vertical CO ₂ heat pipe for geothermal application. <i>Heat and Mass Transfer</i> , 2017 , 53, 3257-3265	2.2	8
62	Local Entropy Production Rates in a Polymer Electrolyte Membrane Fuel Cell. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2017 , 42, 1-30	3.8	6
61	Dynamic simulation and experimental validation of a two-phase closed thermosyphon for geothermal application. <i>Propulsion and Power Research</i> , 2017 , 6, 107-116	3.6	12
60	A second view on the possible enhancement of distillation efficiency with nanofluids. <i>Applied Thermal Engineering</i> , 2017 , 125, 29-34	5.8	2
59	Multifunctional fuel cell system for civil aircraft: Study of the cathode exhaust gas dehumidification. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 29518-29531	6.7	5
58	Particle migration in isobaric and flash evaporation of nanofluids. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2016 , 80, 101-109	0.8	3
57	Optimal Retrofit Strategy of Heat Exchanger Networks Applied in Crude Oil Distillation Units. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 11283-11290	3.9	6
56	Speed-of-Sound Measurements in Compressed Nitrogen and Dry Air. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 3941-3951	2.8	2
55	Nanofluids revisited. <i>Applied Thermal Engineering</i> , 2016 , 106, 1114-1126	5.8	37
54	Absorption and Scattering Behavior of Nanofluids in the Visible Range. <i>International Journal of Thermophysics</i> , 2015 , 36, 2769-2783	2.1	10
53	Experimentelle Bestimmung von Wärmeübergang und Druckverlust bei Kondensation im vertikalen Plattenspalt. Experimental Determination of Condensation Heat Transfer and Pressure Drop in a Vertical Plate Gap. <i>Chemie-Ingenieur-Technik</i> , 2015 , 87, 280-289	0.8	3
52	Boiling of R134a in a Plate-Fin Heat Exchanger Having Offset Fins. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	11
51	Radiative Properties of a Nanofluid Mixture 2014 ,		3
50	Measurements of the Speed of Sound in Liquid Toluene. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1398-1406	2.8	9
49	Measurements of the Speed of Sound in Propene in the Liquid and Supercritical Regions. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1621-1628	2.8	4

48	Measurements of the Speed of Sound in the Refrigerants HFC227ea and HFC365mfc in the Liquid Region. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 446-454	2.8	5
47	Experimentelle Untersuchung des dynamischen thermohydraulischen Verhaltens eines Naturumlaufverdampfers. <i>Chemie-Ingenieur-Technik</i> , 2013 , 85, 1464-1465	0.8	
46	K1 Strahlung technischer Oberflächen 2013 , 1083-1096		1
45	K3 Strahlung von Gasen und Gasgemischen 2013 , 1115-1128		2
44	K2 Sichtfaktoren 2013 , 1097-1114		
43	Thermodynamic Properties of Propane. IV. Speed of Sound in the Liquid and Supercritical Regions. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3391-3398	2.8	10
42	F Technische Thermodynamik 2012 , 925-1021		0
41	Preparation and electrochemical behavior of dense YSZ film for SOEC. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 12074-12080	6.7	22
40	Microstructural modification of the anode/electrolyte interface of SOEC for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 12833-12838	6.7	17
39	Entropy Generation During the Interaction of Thermal Radiation with a Surface. <i>Entropy</i> , 2012 , 14, 717-735	6.7	10
38	A simplified solution of the regenerator periodic problem: the case for air conditioning. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2010 , 74, 207-214	0.8	1
37	Investigation of local heat transfer coefficients in plate heat exchangers with temperature oscillation IR thermography and CFD. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 3764-3781	4.9	53
36	K1 Radiation of Surfaces 2010 , 945-960		4
35	K3 Gas Radiation: Radiation from Gas Mixtures 2010 , 979-988		1
34	K2 View Factors 2010 , 961-978		2
33	Local heat transfer coefficients during the evaporation of 1,1,1,2-tetrafluoroethane (R-134a) in a plate heat exchanger. <i>Journal of the Serbian Chemical Society</i> , 2009 , 74, 427-440	0.9	4
32	A benchmark study on the thermal conductivity of nanofluids. <i>Journal of Applied Physics</i> , 2009 , 106, 094313	3.2	766
31	Flow boiling of R134a and ammonia in a plate heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 6235-6242	4.9	54

30	Heat transfer coefficient and pressure drop during refrigerant R-134a condensation in a plate heat exchanger. <i>Chemical Papers</i> , 2008 , 62,	1.9	13
29	Local heat transfer coefficients in spray cooling systems measured with temperature oscillation IR thermography. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 1953-1962	4.9	35
28	Pressure drop during evaporation of 1,1,1,2-tetrafluoroethane (R-134a) in a plate heat exchanger. <i>Journal of the Serbian Chemical Society</i> , 2007 , 72, 1015-1022	0.9	2
27	Mean heat transfer coefficients during the evaporation of 1,1,1,2-tetrafluoroethane (R-134a) in a plate heat exchanger. <i>Journal of the Serbian Chemical Society</i> , 2007 , 72, 833-846	0.9	6
26	Local Two-Phase Flow Heat Transfer in Plate Heat Exchangers 2007 , 469		1
25	Technische Thermodynamik 2007 , F1-F95		1
24	Pressure derivatives in the classical molecular-dynamics ensemble. <i>Journal of Chemical Physics</i> , 2006 , 124, 64104	3.9	35
23	Speed of sound instrument for fluids with pressures up to 100 MPa. <i>Review of Scientific Instruments</i> , 2006 , 77, 123903	1.7	48
22	Exergy of solar radiation. <i>International Journal of Energy Technology and Policy</i> , 2005 , 3, 115	1	17
21	Transport coefficients of the Lennard-Jones model fluid. III. Bulk viscosity. <i>Journal of Chemical Physics</i> , 2005 , 122, 14513	3.9	65
20	Thermodynamische Stoffdaten für Biogase. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2005 , 70, 46-55	0.8	8
19	AN EXPERIMENTAL INVESTIGATION OF POOL BOILING ON NARROW HORIZONTAL TUBES. <i>Experimental Heat Transfer</i> , 2004 , 17, 131-146	2.4	9
18	3D Visualization of Molecular Simulations in High-performance Parallel Computing Environments. <i>Molecular Simulation</i> , 2004 , 30, 469-477	2	1
17	Transport coefficients of the Lennard-Jones model fluid. II Self-diffusion. <i>Journal of Chemical Physics</i> , 2004 , 121, 9526-35	3.9	109
16	Transport coefficients of the Lennard-Jones model fluid. I. Viscosity. <i>Journal of Chemical Physics</i> , 2004 , 121, 3671-87	3.9	155
15	Wärmeübertragung bei der Verdampfung von Ammoniak in einem Plattenwärmeübertrager. <i>Chemie-Ingenieur-Technik</i> , 2003 , 75, 1628-1633	0.8	
14	Berechnung des Benetzungsverhaltens von Flüssigkeiten auf Teflon in einer verdichteten Stickstoffatmosphäre mit der Dichtegradiententheorie. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2002 , 67, 45-55	0.8	1
13	Grenzflächenenergien von Teflon und verschiedenen Flüssigkeiten in einer verdichteten Stickstoffatmosphäre. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2002 , 67, 56-71	0.8	5

12	Flow boiling of ammonia in a plain and a low finned horizontal tube. <i>International Journal of Refrigeration</i> , 2001 , 24, 41-50	3.8	25
11	The Spectral Directional Emissivity of Photovoltaic Surfaces. <i>International Journal of Thermophysics</i> , 2001 , 22, 1577-1592	2.1	9
10	A Molecular Dynamics Simulation Study of the Self-Diffusion Coefficient and Viscosity of the Lennard-Jones Fluid. <i>International Journal of Thermophysics</i> , 2001 , 22, 161-173	2.1	43
9	Measurement of emittance and degree of polarisation of surfaces for solar energy converters. <i>High Temperatures - High Pressures</i> , 2000 , 32, 677-686	1.3	2
8	Monte Carlo Simulations of Binary Lennard-Jones Mixtures: A Test of the van der Waals One-Fluid Model. <i>International Journal of Thermophysics</i> , 1998 , 19, 687-696	2.1	3
7	Thermodynamik der Strahlung 1994 ,		13
6	The entropy of terrestrial solar radiation. <i>Solar Energy</i> , 1992 , 48, 239-248	6.8	16
5	A simple set of equations of state for process calculations and its application to R134a and R152a. <i>International Journal of Refrigeration</i> , 1991 , 14, 217-222	3.8	3
4	A new look at the maximum conversion efficiency of black-body radiation. <i>Solar Energy</i> , 1991 , 46, 231-236	6.8	13
3	The transient response of finned crossflow heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 1989 , 32, 1183-1189	4.9	11
2	Experimental Study on CaCO ₃ Fouling Characteristics during Falling Film Evaporation. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 1-27	2.3	1
1	Experimental investigation of the two-phase local heat transfer coefficients for condensation of R134a in a micro-structured plate heat exchanger. <i>Heat and Mass Transfer</i> , 1	2.2	0