

# Kevin Pope

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

902  
citations

623734

14  
h-index

477307

29  
g-index

49  
all docs

49  
docs citations

49  
times ranked

847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid film thickness of two-phase slug flows in capillary microchannels: A review paper. Canadian Journal of Chemical Engineering, 2022, 100, 325-348.	1.7	23
2	Numerical investigation of gas-liquid and liquid-liquid Taylor flow through a circular microchannel with a sudden expansion. Canadian Journal of Chemical Engineering, 2022, 100, 1596-1612.	1.7	7
3	An integrated ice tracking and mitigation system on the stagnation line of a cylindrical surface based on thermal imaging and electro-thermal elements. Measurement: Journal of the International Measurement Confederation, 2022, 199, 111539.	5.0	2
4	A Review on the Hydrodynamics of Taylor Flow in Microchannels: Experimental and Computational Studies. Processes, 2021, 9, 870.	2.8	29
5	Estimating the volume of frozen water droplets on a cold surface during the phase change with thermal image processing. Measurement: Journal of the International Measurement Confederation, 2021, 183, 109907.	5.0	3
6	Investigating azeotropic separation of hydrochloric acid for optimizing the copper-chlorine thermochemical cycle. International Journal of Hydrogen Energy, 2020, 45, 26080-26089.	7.1	8
7	Separation dynamics of immiscible liquids. SN Applied Sciences, 2020, 2, 1.	2.9	0
8	Effect of thermal transport on solidification of salt and freshwater water droplets on marine surfaces. International Journal of Heat and Mass Transfer, 2020, 153, 119452.	4.8	7
9	Droplet Coalescence in Liquid/Liquid Separation. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	1.5	2
10	Sizing and Dynamic Modeling of a Power System for the MUN Explorer Autonomous Underwater Vehicle Using a Fuel Cell and Batteries. Journal of Energy, 2019, 2019, 1-17.	3.2	8
11	A review of integrating ice detection and mitigation for wind turbine blades. Renewable and Sustainable Energy Reviews, 2019, 103, 269-281.	16.4	86
12	Numerical techniques for solving solidification and melting phase change problems. Numerical Heat Transfer, Part B: Fundamentals, 2018, 73, 129-145.	0.9	23
13	A review of numerical modelling techniques for marine icing applications. Cold Regions Science and Technology, 2018, 145, 40-51.	3.5	14
14	Effects of blade design on ice accretion for horizontal axis wind turbines. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 173, 39-52.	3.9	38
15	Heat Transfer Model for Liquid-Liquid Taylor Flow in Mini-Scale Coiled Tubing. , 2018, , .		1
16	Unified Probabilistic Modeling of Wind Reserves for Demand Response and Frequency Regulation in Islanded Microgrids. IEEE Transactions on Industry Applications, 2018, 54, 5671-5681.	4.9	10
17	Transient atmospheric ice accretion on wind turbine blades. Wind Engineering, 2018, 42, 596-606.	1.9	2
18	Uniform Design Correlations for Glaze Ice Accretion and Convective Heat Transfer from an Airfoil. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Advances in unit operations and materials for the Cu Cl cycle of hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 15708-15723.	7.1	37
20	Thermal Analysis of Saline Droplet Motion With Cooling in Cold Regions. , 2017, , .		0
21	Modeling and analysis of an HVAC system for the S.J. Carew Building at Memorial University. , 2017, , .		3
22	Population predictions for the world's largest cities in the 21st century. Environment and Urbanization, 2017, 29, 195-216.	2.6	133
23	Performance modelling for wind turbines operating in harsh conditions. International Journal of Energy Research, 2017, 41, 417-428.	4.5	13
24	Azeotropic distillation of hydrochloric acid in the copper-chlorine cycle for hydrogen production. , 2017, , .		1
25	Unified probabilistic modeling of wind reserves for demand response and frequency regulation in islanded microgrids. , 2017, , .		1
26	Phase change and droplet dynamics for a free falling water droplet. International Journal of Heat and Mass Transfer, 2017, 115, 461-470.	4.8	13
27	Heat Transfer in Liquid-Liquid Taylor Flow in Miniscale Curved Tubing for Constant Wall Temperature. Journal of Electronic Packaging, Transactions of the ASME, 2017, 139, .	1.8	2
28	Frequency domain analysis for statistical assessment of wind resources. , 2016, , .		0
29	Temperature Distribution during Solidification of Saline and Fresh Water Droplets after Striking a Super-Cooled Surface. , 2016, , .		3
30	Optimal sizing of a stand-alone hybrid energy system for water pumping in Sirte, Libya. , 2016, , .		7
31	The Extent of Water Sheet Breakup on a Vertical Surface. , 2016, , .		3
32	Hydraulic-Powered Forced Convection Heat Transfer. , 2016, , .		0
33	Process integration of material flows of copper chlorides in the thermochemical Cu-Cl cycle. Chemical Engineering Research and Design, 2016, 109, 273-281.	5.6	16
34	Heat Transfer in Liquid-Liquid Taylor Flow in a Mini-Scale Tube With Constant Wall Temperature. , 2015, , .		1
35	Counter rotating hydrokinetic turbine arrays for ocean energy conversion. , 2014, , .		2
36	Multiple streamtube approximation of flow-induced forces on a Savonius wind turbine. International Journal of Energy Research, 2013, 37, 1079-1087.	4.5	3

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37	Effects of vapor pressure on thermodynamic equilibrium in multiphase flow for thermochemical hydrogen production. <i>Heat and Mass Transfer</i> , 2013, 49, 1787-1794.	2.1	1
38	Nitrogen carrier gas flow for reduced steam requirements of water splitting in a packed bed hydrolysis reactor. <i>Experimental Thermal and Fluid Science</i> , 2013, 44, 815-824.	2.7	12
39	Experimental study of gaseous effluent and solid conversion in a fluidized bed hydrolysis reactor for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16397-16401.	7.1	8
40	Towards integration of hydrolysis, decomposition and electrolysis processes of the Cu-Cl thermochemical water splitting cycle. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16557-16569.	7.1	22
41	Interfacial thermodynamics and X-ray diffraction of hydrolysis products in multiphase reacting flow of the Cu-Cl cycle. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15011-15019.	7.1	8
42	Steam flow effects on hydrolysis reaction kinetics in the Cu-Cl cycle. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17701-17708.	7.1	3
43	Measured Steam Conversion and Chemical Kinetics in a Hydrolysis Packed Bed Reactor for Hydrogen Production. <i>Energy Procedia</i> , 2012, 29, 496-502.	1.8	1
44	Pressure drop of packed bed vertical flow for multiphase hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11338-11344.	7.1	9
45	Power correlation for vertical axis wind turbines with varying geometries. <i>International Journal of Energy Research</i> , 2011, 35, 423-435.	4.5	26
46	Small wind turbine energy policies for residential and small business usage in Ontario, Canada. <i>Energy Policy</i> , 2011, 39, 1988-1999.	8.8	26
47	Effects of stator vanes on power coefficients of a zephyr vertical axis wind turbine. <i>Renewable Energy</i> , 2010, 35, 1043-1051.	8.9	78
48	Energy and exergy efficiency comparison of horizontal and vertical axis wind turbines. <i>Renewable Energy</i> , 2010, 35, 2102-2113.	8.9	207