

# 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	Energy and exergy efficiency comparison of horizontal and vertical axis wind turbines. <i>Renewable Energy</i> , 2010, 35, 2102-2113.	8.9	207
2	Population predictions for the world's largest cities in the 21st century. <i>Environment and Urbanization</i> , 2017, 29, 195-216.	2.6	133
3	A review of integrating ice detection and mitigation for wind turbine blades. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 103, 269-281.	16.4	86
4	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
5	Effects of blade design on ice accretion for horizontal axis wind turbines. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 173, 39-52.	3.9	38
6	Advances in unit operations and materials for the Cu-Cl cycle of hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15708-15723.	7.1	37
7	A Review on the Hydrodynamics of Taylor Flow in Microchannels: Experimental and Computational Studies. <i>Processes</i> , 2021, 9, 870.	2.8	29
8	Power correlation for vertical axis wind turbines with varying geometries. <i>International Journal of Energy Research</i> , 2011, 35, 423-435.	4.5	26
9	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
10	Numerical techniques for solving solidification and melting phase change problems. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018, 73, 129-145.	0.9	23
11	Liquid film thickness of two-phase slug flows in capillary microchannels: A review paper. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 325-348.	1.7	23
12	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
13	Process integration of material flows of copper chlorides in the thermochemical Cu-Cl cycle. <i>Chemical Engineering Research and Design</i> , 2016, 109, 273-281.	5.6	16
14	A review of numerical modelling techniques for marine icing applications. <i>Cold Regions Science and Technology</i> , 2018, 145, 40-51.	3.5	14
15	Performance modelling for wind turbines operating in harsh conditions. <i>International Journal of Energy Research</i> , 2017, 41, 417-428.	4.5	13
16	Phase change and droplet dynamics for a free falling water droplet. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 461-470.	4.8	13
17	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
18	Unified Probabilistic Modeling of Wind Reserves for Demand Response and Frequency Regulation in Islanded Microgrids. <i>IEEE Transactions on Industry Applications</i> , 2018, 54, 5671-5681.	4.9	10

#	ARTICLE	IF	CITATIONS
19	Pressure drop of packed bed vertical flow for multiphase hydrogen production. International Journal of Hydrogen Energy, 2011, 36, 11338-11344.	7.1	9
20	Experimental study of gaseous effluent and solid conversion in a fluidized bed hydrolysis reactor for hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 16397-16401.	7.1	8
21	Interfacial thermodynamics and X-ray diffraction of hydrolysis products in multiphase reacting flow of the Cu-Cl cycle. International Journal of Hydrogen Energy, 2012, 37, 15011-15019.	7.1	8
22	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
23	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
24	Optimal sizing of a stand-alone hybrid energy system for water pumping in Sirte, Libya. , 2016, , .		7
25	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
26	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
27	Steam flow effects on hydrolysis reaction kinetics in the Cu-Cl cycle. International Journal of Hydrogen Energy, 2012, 37, 17701-17708.	7.1	3
28	Multiple streamtube approximation of flow-induced forces on a Savonius wind turbine. International Journal of Energy Research, 2013, 37, 1079-1087.	4.5	3
29	Temperature Distribution during Solidification of Saline and Fresh Water Droplets after Striking a Super-Cooled Surface. , 2016, , .		3
30	The Extent of Water Sheet Breakup on a Vertical Surface. , 2016, , .		3
31	Modeling and analysis of an HVAC system for the S.J. Carew Building at Memorial University. , 2017, , .		3
32	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
33	Counter rotating hydrokinetic turbine arrays for ocean energy conversion. , 2014, , .		2
34	Transient atmospheric ice accretion on wind turbine blades. Wind Engineering, 2018, 42, 596-606.	1.9	2
35	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
36	Droplet Coalescence in Liquid/Liquid Separation. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	1.5	2

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37	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
38	Measured Steam Conversion and Chemical Kinetics in a Hydrolysis Packed Bed Reactor for Hydrogen Production. Energy Procedia, 2012, 29, 496-502.	1.8	1
39	Effects of vapor pressure on thermodynamic equilibrium in multiphase flow for thermochemical hydrogen production. Heat and Mass Transfer, 2013, 49, 1787-1794.	2.1	1
40	Heat Transfer in Liquid-Liquid Taylor Flow in a Mini-Scale Tube With Constant Wall Temperature. , 2015, , .		1
41	Azeotropic distillation of hydrochloric acid in the copper-chlorine cycle for hydrogen production. , 2017, , .		1
42	Unified probabilistic modeling of wind reserves for demand response and frequency regulation in islanded microgrids. , 2017, , .		1
43	Heat Transfer Model for Liquid-Liquid Taylor Flow in Mini-Scale Coiled Tubing. , 2018, , .		1
44	Frequency domain analysis for statistical assessment of wind resources. , 2016, , .		0
45	Hydraulic-Powered Forced Convection Heat Transfer. , 2016, , .		0
46	Uniform Design Correlations for Glaze Ice Accretion and Convective Heat Transfer from an Airfoil. , 2017, , .		0
47	Thermal Analysis of Saline Droplet Motion With Cooling in Cold Regions. , 2017, , .		0
48	Separation dynamics of immiscible liquids. SN Applied Sciences, 2020, 2, 1.	2.9	0