Sandra K S Boetcher

List of Publications by Year
in descending order

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44 papers	577 citations	840585 11 h-index	642610 23 g-index
46 all docs	46 docs citations	46 times ranked	478 citing authors

#	Article	IF	Citations
1	Turbulent convective heat transfer behavior of supercritical water flowing upward in 2â€‰Ã—â€‰2â€‰rod bundle channels with various spacers. Numerical Heat Transfer; Part A: Applications, 2022, 82, 255-279.	1.2	4
2	Special Section on Flow Physics of Supercritical Fluids in Engineering. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	0.8	1
3	Fused filament fabrication of novel phase-change material functional composites. Additive Manufacturing, 2021, 39, 101839.	1.7	16
4	On the Validation of Turbulence Models for Wheel and Wheelhouse Aerodynamics. Journal of Verification, Validation and Uncertainty Quantification, 2021, 6, .	0.3	1
5	Effect of the Heat Transfer Coefficient Reference Temperatures on Validating Numerical Models of Supercritical CO2. Journal of Verification, Validation and Uncertainty Quantification, 2021, 6, .	0.3	5
6	Impact of Uncertainty on Prediction of Supercritical CO2 Properties and Nusselt Numbers. Journal of Heat Transfer, 2021, 143, .	1.2	4
7	Inhomogeneous behavior of supercritical hydrocarbon fuel flow in a regenerative cooling channel for a scramjet engine. Aerospace Science and Technology, 2021, 117, 106901.	2.5	20
8	Assessment of conventional and air-jet wheel deflectors for drag reduction of the DrivAer model. Advances in Aerodynamics, 2021, 3, .	1.3	3
9	Moisture affinity of HDPE/phase-change material composites for thermal energy storage applications. RSC Advances, 2021, 11, 30569-30573.	1.7	4
10	A review of heat transfer deterioration of supercritical carbon dioxide flowing in vertical tubes: Heat transfer behaviors, identification methods, critical heat fluxes, and heat transfer correlations. International Journal of Heat and Mass Transfer, 2020, 149, 119233.	2.5	81
11	Thermodynamic Model of CO2 Deposition in Cold Climates. Climatic Change, 2020, 158, 517-530.	1.7	8
12	Supercritical CO₂ flowing upward in a vertical tube subject to axially nonuniform heating. Numerical Heat Transfer; Part A: Applications, 2020, 78, 717-736.	1.2	9
13	Energy savings with heat transfer enhancement techniques and heat exchangers. Journal of Thermal Analysis and Calorimetry, 2020, 141, 1-4.	2.0	8
14	Heat transfer enhancement of rotating wedge-shaped channels with pin fins and Kagome lattices. Numerical Heat Transfer; Part A: Applications, 2020, 77, 1014-1033.	1.2	7
15	Heat transfer enhancement of X-lattice-cored sandwich panels by introducing pin fins, dimples or protrusions. International Journal of Heat and Mass Transfer, 2019, 141, 627-642.	2.5	12
16	Phase-Change Materials/HDPE Composite Filament: A First Step Toward Use With 3D Printing for Thermal Management Applications. Journal of Thermal Science and Engineering Applications, 2019, 11, .	0.8	12
17	Heat transfer enhancement of wedge-shaped channels by replacing pin fins with Kagome lattice structures. International Journal of Heat and Mass Transfer, 2019, 141, 88-101.	2.5	45
18	Drag Reduction of Ground Vehicles Using Air-Injected Wheel Deflectors. , 2019, , .		2

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19	Assessment of Eddy-Viscosity Turbulence Models on Flow in a Wheelhouse. , 2019, , .		0
20	Optimizing Jets for Active Control of Wake Refinement for Ground Vehicles. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	0.8	5
21	Phase-Change Material to Thermally Regulate Photovoltaic Panels to Improve Solar to Electric Efficiency. , 2015, , .		4
22	Investigation of Shroud Geometry to Passively Improve Heat Transfer in a Solar Thermal Storage Tank. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, .	1.1	7
23	Natural Convection from Circular Cylinders. SpringerBriefs in Applied Sciences and Technology, 2014, , .	0.2	29
24	Natural Convection Heat Transfer From Horizontal Cylinders. SpringerBriefs in Applied Sciences and Technology, 2014, , 3-22.	0.2	10
25	Natural Convection Heat Transfer From Vertical Cylinders. SpringerBriefs in Applied Sciences and Technology, 2014, , 23-42.	0.2	2
26	Natural Convection Heat Transfer From Inclined Cylinders. SpringerBriefs in Applied Sciences and Technology, 2014, , 43-48.	0.2	1
27	One-dimensional multipulse laser machining of structural alumina: evolution of surface topography. International Journal of Advanced Manufacturing Technology, 2013, 68, 69-83.	1.5	62
28	Numerical study of wind forces on parabolic solar collectors. Renewable Energy, 2013, 60, 498-505.	4.3	35
29	Laminar Natural Convection From Isothermal Vertical Cylinders: Revisting a Classical Subject. Journal of Heat Transfer, 2013, 135, .	1.2	11
30	Battery Thermal Management for Hybrid Electric Vehicles Using a Phase-Change Material Cold Plate. , 2013, , .		1
31	Optimizing Jets for Active Wake Control of Ground Vehicles. , 2013, , .		2
32	Investigation of Shroud Geometry to Passively Improve Heat Transfer in a Solar Thermal Storage Tank. , 2012, , .		0
33	Impact of Interstitial Mass Transport Resistance on Water Vapor Diffusion Through Fabric Layers. Journal of Thermal Science and Engineering Applications, 2012, 4, .	0.8	0
34	Use of a Shroud and Baffle to Improve Natural Convection to Immersed Heat Exchangers. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, .	1.1	11
35	Thermal conduction analysis of layered functionally graded materials. Computational Materials Science, 2012, 54, 329-335.	1.4	35
36	Evolution of surface topography in one-dimensional laser machining of structural alumina. Journal of the European Ceramic Society, 2012, 32, 4205-4218.	2.8	56

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37	Laminar Natural Convection From Isothermal Vertical Cylinders: A Revisit to a Classical Subject. , 2011, , .		0
38	Negatively Buoyant Plume Flow in a Baffled Heat Exchanger. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.1	7
39	Buoyancy-induced flow in an open-ended cavity: Assessment of a similarity solution and of numerical simulation models. International Journal of Heat and Mass Transfer, 2009, 52, 3850-3856.	2.5	20
40	Characteristics of direct-contact, skin-surface temperature sensors. International Journal of Heat and Mass Transfer, 2009, 52, 3799-3804.	2.5	11
41	Strut Interference Effects on Pitot Tube Velocity Measurements. , 2007, , 275.		0
42	Numerical Simulation of Axisymmetric, Turbulent Buoyant Plumesâ€"Application to Displacement Ventilation. Numerical Heat Transfer; Part A: Applications, 2007, 51, 1023-1040.	1.2	4
43	Limitations of the standard Bernoulli equation method for evaluating Pitot/impact tube data. International Journal of Heat and Mass Transfer, 2007, 50, 782-788.	2.5	16
44	NUMERICAL SIMULATION OF THE RADIATIVE HEATING OF A MOVING SHEET. Numerical Heat Transfer; Part A: Applications, 2004, 47, 1-25.	1.2	6