

Sandra K S Boetcher

List of Publications by Year in descending order

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44
papers

577
citations

840585

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642610

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46
all docs

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docs citations

46
times ranked

478
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 119233.	2.5	81
2	One-dimensional multipulse laser machining of structural alumina: evolution of surface topography. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 68, 69-83.	1.5	62
3	Evolution of surface topography in one-dimensional laser machining of structural alumina. <i>Journal of the European Ceramic Society</i> , 2012, 32, 4205-4218.	2.8	56
4	Heat transfer enhancement of wedge-shaped channels by replacing pin fins with Kagome lattice structures. <i>International Journal of Heat and Mass Transfer</i> , 2019, 141, 88-101.	2.5	45
5	Thermal conduction analysis of layered functionally graded materials. <i>Computational Materials Science</i> , 2012, 54, 329-335.	1.4	35
6	Numerical study of wind forces on parabolic solar collectors. <i>Renewable Energy</i> , 2013, 60, 498-505.	4.3	35
7	Natural Convection from Circular Cylinders. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014, , .	0.2	29
8	Buoyancy-induced flow in an open-ended cavity: Assessment of a similarity solution and of numerical simulation models. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 3850-3856.	2.5	20
9	Inhomogeneous behavior of supercritical hydrocarbon fuel flow in a regenerative cooling channel for a scramjet engine. <i>Aerospace Science and Technology</i> , 2021, 117, 106901.	2.5	20
10	Limitations of the standard Bernoulli equation method for evaluating Pitot/impact tube data. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 782-788.	2.5	16
11	Fused filament fabrication of novel phase-change material functional composites. <i>Additive Manufacturing</i> , 2021, 39, 101839.	1.7	16
12	Heat transfer enhancement of X-lattice-cored sandwich panels by introducing pin fins, dimples or protrusions. <i>International Journal of Heat and Mass Transfer</i> , 2019, 141, 627-642.	2.5	12
13	Phase-Change Materials/HDPE Composite Filament: A First Step Toward Use With 3D Printing for Thermal Management Applications. <i>Journal of Thermal Science and Engineering Applications</i> , 2019, 11, .	0.8	12
14	Characteristics of direct-contact, skin-surface temperature sensors. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 3799-3804.	2.5	11
15	Use of a Shroud and Baffle to Improve Natural Convection to Immersed Heat Exchangers. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2012, 134, .	1.1	11
16	Laminar Natural Convection From Isothermal Vertical Cylinders: Revisiting a Classical Subject. <i>Journal of Heat Transfer</i> , 2013, 135, .	1.2	11
17	Natural Convection Heat Transfer From Horizontal Cylinders. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014, , 3-22.	0.2	10
18	Supercritical CO ₂ flowing upward in a vertical tube subject to axially nonuniform heating. <i>Numerical Heat Transfer; Part A: Applications</i> , 2020, 78, 717-736.	1.2	9

#	ARTICLE	IF	CITATIONS
19	Thermodynamic Model of CO ₂ Deposition in Cold Climates. Climatic Change, 2020, 158, 517-530.	1.7	8
20	Energy savings with heat transfer enhancement techniques and heat exchangers. Journal of Thermal Analysis and Calorimetry, 2020, 141, 1-4.	2.0	8
21	Negatively Buoyant Plume Flow in a Baffled Heat Exchanger. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.1	7
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	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
24	NUMERICAL SIMULATION OF THE RADIATIVE HEATING OF A MOVING SHEET. Numerical Heat Transfer; Part A: Applications, 2004, 47, 1-25.	1.2	6
25	Optimizing Jets for Active Control of Wake Refinement for Ground Vehicles. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	0.8	5
26	Effect of the Heat Transfer Coefficient Reference Temperatures on Validating Numerical Models of Supercritical CO ₂ . Journal of Verification, Validation and Uncertainty Quantification, 2021, 6, .	0.3	5
27	Numerical Simulation of Axisymmetric, Turbulent Buoyant Plumes—Application to Displacement Ventilation. Numerical Heat Transfer; Part A: Applications, 2007, 51, 1023-1040.	1.2	4
28	Phase-Change Material to Thermally Regulate Photovoltaic Panels to Improve Solar to Electric Efficiency. , 2015, , .		4
29	Impact of Uncertainty on Prediction of Supercritical CO ₂ Properties and Nusselt Numbers. Journal of Heat Transfer, 2021, 143, .	1.2	4
30	Moisture affinity of HDPE/phase-change material composites for thermal energy storage applications. RSC Advances, 2021, 11, 30569-30573.	1.7	4
31	Turbulent convective heat transfer behavior of supercritical water flowing upward in 2%–2% rod bundle channels with various spacers. Numerical Heat Transfer; Part A: Applications, 2022, 82, 255-279.	1.2	4
32	Assessment of conventional and air-jet wheel deflectors for drag reduction of the DrivAer model. Advances in Aerodynamics, 2021, 3, .	1.3	3
33	Optimizing Jets for Active Wake Control of Ground Vehicles. , 2013, , .		2
34	Natural Convection Heat Transfer From Vertical Cylinders. SpringerBriefs in Applied Sciences and Technology, 2014, , 23-42.	0.2	2
35	Drag Reduction of Ground Vehicles Using Air-Injected Wheel Deflectors. , 2019, , .		2
36	Battery Thermal Management for Hybrid Electric Vehicles Using a Phase-Change Material Cold Plate. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
37	Special Section on Flow Physics of Supercritical Fluids in Engineering. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	0.8	1
38	On the Validation of Turbulence Models for Wheel and Wheelhouse Aerodynamics. Journal of Verification, Validation and Uncertainty Quantification, 2021, 6, .	0.3	1
39	Natural Convection Heat Transfer From Inclined Cylinders. SpringerBriefs in Applied Sciences and Technology, 2014, , 43-48.	0.2	1
40	Strut Interference Effects on Pitot Tube Velocity Measurements. , 2007, , 275.		0
41	Investigation of Shroud Geometry to Passively Improve Heat Transfer in a Solar Thermal Storage Tank. , 2012, , .		0
42	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
43	Laminar Natural Convection From Isothermal Vertical Cylinders: A Revisit to a Classical Subject. , 2011, , .		0
44	Assessment of Eddy-Viscosity Turbulence Models on Flow in a Wheelhouse. , 2019, , .		0