

Brian D Iverson

List of Publications by Year in descending order

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54
papers

2,499
citations

430874

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254184

43
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54
all docs

54
docs citations

54
times ranked

2565
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of solar-coal hybridization for low solar augmentation. <i>Applied Energy</i> , 2022, 319, 119225.	10.1	3
2	Simulating Capillary Gas Chromatographic Separations including Thermal Gradient Conditions. <i>Analytical Chemistry</i> , 2021, 93, 2291-2298.	6.5	7
3	Comparison of Static Thermal Gradient to Isothermal Conditions in Gas Chromatography Using a Stochastic Transport Model. <i>Analytical Chemistry</i> , 2021, 93, 6739-6745.	6.5	2
4	Transient heat transfer of impinging jets on superheated wetting and non-wetting surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2021, 175, 121056.	4.8	11
5	Comparison of the Dynamic Thermal Gradient to Temperature-Programmed Conditions in Gas Chromatography Using a Stochastic Transport Model. <i>Analytical Chemistry</i> , 2021, 93, 11785-11791.	6.5	3
6	3D Interdigitated Vertically Aligned Carbon Nanotube Electrodes for Electrochemical Impedimetric Biosensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 10166-10175.	5.0	14
7	Experimental demonstration of heat loss and turn-down ratio for a multi-panel, actively deployed radiator. <i>Applied Thermal Engineering</i> , 2020, 178, 115658.	6.0	7
8	Additive manufacturing and characterization of AgI and AgI/Al ₂ O ₃ composite electrolytes for resistive switching devices. <i>Journal of Applied Physics</i> , 2020, 128, 035103.	2.5	2
9	Closed-Loop, Axial Temperature Control of Etched Silicon Microcolumn for Tunable Thermal Gradient Gas Chromatography. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 76-85.	2.5	0
10	Porous Silica Nanotube Thin Films as Thermally Insulating Barrier Coatings. <i>ACS Applied Nano Materials</i> , 2020, 3, 3168-3173.	5.0	4
11	Heat transfer, efficiency and turn-down ratio of a dynamic radiative heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118441.	4.8	5
12	Simulation of Drop-Size Distribution During Dropwise and Jumping Drop Condensation on a Vertical Surface: Implications for Heat Transfer Modeling. <i>Langmuir</i> , 2019, 35, 12858-12875.	3.5	26
13	Stainless-Steel Column for Robust, High-Temperature Microchip Gas Chromatography. <i>Analytical Chemistry</i> , 2019, 91, 792-796.	6.5	12
14	Control of Net Radiative Heat Transfer With a Variable-Emissivity Accordion Tessellation. <i>Journal of Heat Transfer</i> , 2019, 141, .	2.1	14
15	Influence of micro-structured superhydrophobic surfaces on nucleation and natural convection in a heated pool. <i>International Journal of Heat and Mass Transfer</i> , 2019, 129, 1095-1109.	4.8	2
16	Passive CubeSats for remote inspection of space vehicles. <i>Journal of Applied Remote Sensing</i> , 2019, 13, 1.	1.3	3
17	CIP2A immunosensor comprised of vertically-aligned carbon nanotube interdigitated electrodes towards point-of-care oral cancer screening. <i>Biosensors and Bioelectronics</i> , 2018, 117, 68-74.	10.1	37
18	Bubble nucleation in superhydrophobic microchannels due to subcritical heating. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 196-206.	4.8	6

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19	Total hemispherical apparent radiative properties of the infinite V-groove with specular reflection. International Journal of Heat and Mass Transfer, 2018, 124, 168-176.	4.8	19
20	Superhydrophobic, carbon-infiltrated carbon nanotubes on Si and 316L stainless steel with tunable geometry. Applied Physics Letters, 2018, 112, .	3.3	6
21	Electrochemical Glucose Sensors Enhanced by Methyl Viologen and Vertically Aligned Carbon Nanotube Channels. ACS Applied Materials & Interfaces, 2018, 10, 28351-28360.	8.0	37
22	Total Hemispherical Apparent Radiative Properties of the Infinite V-Groove with Diffuse Reflection. Journal of Thermophysics and Heat Transfer, 2018, 32, 1109-1112.	1.6	10
23	ADAPTIVE NET RADIATIVE HEAT TRANSFER AND THERMAL MANAGEMENT WITH ORIGAMI-STRUCTURED SURFACES. , 2018, , .		6
24	Improving sensitivity of electrochemical sensors with convective transport in free-standing, carbon nanotube structures. Sensors and Actuators B: Chemical, 2017, 246, 20-28.	7.8	18
25	Hybrid concentrated solar thermal power systems: A review. Renewable and Sustainable Energy Reviews, 2017, 80, 215-237.	16.4	176
26	Two-phase flow pressure drop in superhydrophobic channels. International Journal of Heat and Mass Transfer, 2017, 110, 515-522.	4.8	10
27	Microfabrication with smooth thin carbon nanotube composite sheets. Materials Research Express, 2017, 4, 035032.	1.6	3
28	Extending the upper temperature range of gas chromatography with all-silicon microchip columns using a heater/clamp assembly. Journal of Chromatography A, 2017, 1517, 134-141.	3.7	20
29	Dynamic Control of Radiative Surface Properties With Origami-Inspired Design. Journal of Heat Transfer, 2016, 138, .	2.1	21
30	Infrared Visualization of the Cavity Effect Using Origami-Inspired Surfaces. Journal of Heat Transfer, 2016, 138, .	2.1	6
31	High Aspect Ratio Carbon Nanotube Membranes Decorated with Pt Nanoparticle Urchins for Micro Underwater Vehicle Propulsion via H_2O_2 Decomposition. ACS Nano, 2015, 9, 7791-7803.	14.6	51
32	Economic Optimization of a Concentrating Solar Power Plant With Molten-Salt Thermocline Storage. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, .	1.8	18
33	Thermocline Bed Properties for Deformation Analysis. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, .	1.8	5
34	System-level simulation of a solar power tower plant with thermocline thermal energy storage. Applied Energy, 2014, 113, 86-96.	10.1	127
35	Review of high-temperature central receiver designs for concentrating solar power. Renewable and Sustainable Energy Reviews, 2014, 29, 835-846.	16.4	575
36	High-efficiency thermodynamic power cycles for concentrated solar power systems. Renewable and Sustainable Energy Reviews, 2014, 30, 758-770.	16.4	210

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37	Dynamic Control of Radiative Surface Properties With Origami-Inspired Design. , 2014, , .		1
38	Supercritical CO2 Brayton cycles for solar-thermal energy. Applied Energy, 2013, 111, 957-970.	10.1	398
39	Simulation of a Concentrating Solar Power Plant With Molten-Salt Thermocline Storage for Optimized Annual Performance. , 2013, , .		2
40	Thermal and mechanical properties of nitrate thermal storage salts in the solid-phase. Solar Energy, 2012, 86, 2897-2911.	6.1	48
41	Thermal Property Testing of Nitrate Thermal Storage Salts in the Solid-Phase. , 2011, , .		6
42	Freeze-Thaw Tests on Trough Receivers Employing a Molten Salt Working Fluid. , 2010, , .		3
43	Note: Thermal analog to atomic force microscopy force-displacement measurements for nanoscale interfacial contact resistance. Review of Scientific Instruments, 2010, 81, 036111.	1.3	6
44	A Parametric Study of the Impact of Various Error Contributions on the Flux Distribution of a Solar Dish Concentrator. , 2010, , .		10
45	Experimental characterization of induction electrohydrodynamics for integrated microchannel pumping. Journal of Micromechanics and Microengineering, 2009, 19, 055015.	2.6	16
46	Effects of discrete-electrode configuration on traveling-wave electrohydrodynamic pumping. Microfluidics and Nanofluidics, 2009, 6, 221-230.	2.2	18
47	Recent advances in microscale pumping technologies: a review and evaluation. Microfluidics and Nanofluidics, 2008, 5, 145-174.	2.2	402
48	Noise analysis and sensitivity enhancement in immunomagnetic nanomechanical biosensors. Applied Physics Letters, 2008, 93, .	3.3	13
49	Performance Characterization of a Traveling-Wave Electrohydrodynamic Micropump. , 2008, , .		0
50	Heat and Mass Transport in Heat Pipe Wick Structures. Journal of Thermophysics and Heat Transfer, 2007, 21, 392-404.	1.6	68
51	Enhanced Electrohydrodynamic Pumping at the Microscale. , 2006, , 239.		0
52	Experimental Measurements of Heat and Mass Transport in Heat Pipe Wicks. , 2004, , 209.		2
53	Thermally Developing Electroosmotic Convection in Rectangular Microchannels With Vanishing Debye-Layer Thickness. Journal of Thermophysics and Heat Transfer, 2004, 18, 486-493.	1.6	29
54	Numerical Investigation of the Flow and Heat Transfer Due to a Miniature Piezoelectric Fan. , 2004, , 29.		1