

# Kevin D Cole

## List of Publications by Year in descending order

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52  
papers

1,239  
citations

471061

17  
h-index

525886

27  
g-index

52  
all docs

52  
docs citations

52  
times ranked

803  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete Greenâ€™s functions and spectral graph theory for computationally efficient thermal modeling. International Journal of Heat and Mass Transfer, 2022, 183, 122112.	2.5	4
2	Semi-analytical source (SAS) method for 3-D transient heat conduction problems with moving heat source of arbitrary shape. International Journal of Heat and Mass Transfer, 2021, 165, 120692.	2.5	9
3	Enabling the Application of Large Footprint Openâ€Bottom Permeameters Through New Shape Factors. Water Resources Research, 2021, 57, e2020WR029315.	1.7	1
4	Thermal modeling in metal additive manufacturing using graph theory â€“ Application to laser powder bed fusion of a large volume impeller. Additive Manufacturing, 2021, 41, 101956.	1.7	16
5	Part-scale thermal simulation of laser powder bed fusion using graph theory: Effect of thermal history on porosity, microstructure evolution, and recoater crash. Materials and Design, 2021, 204, 109685.	3.3	38
6	Toward the digital twin of additive manufacturing: Integrating thermal simulations, sensing, and analytics to detect process faults. IISE Transactions, 2020, 52, 1204-1217.	1.6	97
7	Computational heat transfer with spectral graph theory: Quantitative verification. International Journal of Thermal Sciences, 2020, 153, 106383.	2.6	15
8	Thermal Modeling in Metal Additive Manufacturing Using Graph Theory: Experimental Validation With Laser Powder Bed Fusion Using In Situ Infrared Thermography Data. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	1.3	16
9	Investigation of Numerical Evaluation Improvement for Three-Dimensional Infinite Cylindrical Heat Conduction Problems. Journal of Heat Transfer, 2020, 142, .	1.2	0
10	Design Rules for Additive Manufacturing â€“ Understanding the Fundamental Thermal Phenomena to Reduce Scrap. Procedia Manufacturing, 2019, 33, 375-382.	1.9	8
11	Thermal Modeling in Metal Additive Manufacturing Using Graph Theory. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	1.3	38
12	Predicting Part-Level Thermal History in Metal Additive Manufacturing Using Graph Theory: Experimental Validation With Directed Energy Deposition of Titanium Alloy Parts. , 2019, , .		2
13	Modeling of Joule heating and convective cooling in a thick-walled micro-tube. International Journal of Thermal Sciences, 2017, 119, 24-36.	2.6	6
14	Efficient Numerical Evaluation of Exact Solutions for One-Dimensional and Two-Dimensional Infinite Cylindrical Heat Conduction Problems. Journal of Heat Transfer, 2017, 139, .	1.2	2
15	Applications in Education for a Heat Conduction Database. , 2015, , .		0
16	Microchannel Heat Transfer with Slip Flow and Wall Effects. Journal of Thermophysics and Heat Transfer, 2014, 28, 455-462.	0.9	17
17	Intrinsic verification and a heat conduction database. International Journal of Thermal Sciences, 2014, 78, 36-47.	2.6	49
18	More carrot than stick: Encouraging computer programming in thermal design projects. Computer Applications in Engineering Education, 2013, 21, 698-703.	2.2	2

#	ARTICLE	IF	CITATIONS
19	Anisotropic thermal conductivity measurement of carbon-fiber/epoxy composite materials. International Journal of Heat and Mass Transfer, 2012, 55, 6530-6537.	2.5	69
20	The effect of axial conduction on heat transfer in a liquid microchannel flow. International Journal of Heat and Mass Transfer, 2011, 54, 2542-2549.	2.5	43
21	Thermal models of railroad wheels and bearings. International Journal of Heat and Mass Transfer, 2010, 53, 1636-1645.	2.5	24
22	Steady-periodic heating in parallel-plate microchannel flow with participating walls. International Journal of Heat and Mass Transfer, 2010, 53, 870-878.	2.5	7
23	Steady-Periodic Heating of a Cylinder. Journal of Heat Transfer, 2009, 131, .	1.2	9
24	Thermal Analysis of Railroad Bearings: Effect of Wheel Heating. , 2009, , .		4
25	Analysis of flux-base fins for estimation of heat transfer coefficient. International Journal of Heat and Mass Transfer, 2009, 52, 92-99.	2.5	23
26	Conduction in rectangular plates with boundary temperatures specified. International Journal of Heat and Mass Transfer, 2008, 51, 4676-4690.	2.5	21
27	Experiments and models for the thermal response of railroad tapered-roller bearings. International Journal of Heat and Mass Transfer, 2008, 51, 5794-5803.	2.5	38
28	Flush-Mounted Steady-Periodic Heated Film With Application to Shear-Stress Measurement. Journal of Heat Transfer, 2008, 130, .	1.2	3
29	Dynamic Bearing Testing Aimed at Identifying the Root Cause of Warm Bearing Temperature Trending. , 2008, , .		7
30	Improving convergence of summations in heat conduction. International Journal of Heat and Mass Transfer, 2007, 50, 257-268.	2.5	17
31	Steady-Periodic Greenâ€™s Functions and Thermal-Measurement Applications in Rectangular Coordinates. Journal of Heat Transfer, 2006, 128, 709-716.	1.2	23
32	Flush-Mounted Steady-Periodic Heated Film With Application to Fluid-Flow Measurement. , 2006, , .		0
33	Steady-Periodic Greenâ€™s Functions and Thermal-Measurement Applications in Rectangular Coordinates. , 2005, , 459.		0
34	Design of Experiments for Thermal Characterization of Metallic Foam. Journal of Thermophysics and Heat Transfer, 2005, 19, 367-374.	0.9	5
35	Thermal Characterization of Functionally Graded Materials: Design of Optimal Experiments. Journal of Thermophysics and Heat Transfer, 2004, 18, 289-294.	0.9	2
36	Fast-converging series for heat conduction in the circular cylinder. Journal of Engineering Mathematics, 2004, 49, 217-232.	0.6	6

#	ARTICLE	IF	CITATIONS
37	Wavefront Curvature Sensing Based on Diffraction Grating and Fractional Fourier Transforms. Optical Review, 2004, 11, 344-347.	1.2	0
38	Computer programs for temperature in fins and slab bodies with the method of Green's functions. Computer Applications in Engineering Education, 2004, 12, 189-197.	2.2	8
39	Design of Experiments for the Thermal Characterization of Metallic Foam. , 2004, , .		0
40	Analysis of Pulse Heating on a Fluid-Cooled Surface for Fluid Shear Stress. , 2002, , 277.		2
41	Thermal Characterization of Functionally Graded Materials-Design of Optimum Experiments. , 2002, , .		1
42	Fast-converging steady-state heat conduction in a rectangular parallelepiped. International Journal of Heat and Mass Transfer, 2002, 45, 3585-3596.	2.5	23
43	Green's functions, temperature and heat flux in the rectangle. International Journal of Heat and Mass Transfer, 2001, 44, 3883-3894.	2.5	31
44	Influence Functions for the Infinite and Semi-Infinite Strip. Journal of Thermophysics and Heat Transfer, 2001, 15, 431-438.	0.9	5
45	Conjugate heat transfer from a small heated strip. International Journal of Heat and Mass Transfer, 1997, 40, 2709-2719.	2.5	43
46	Unsteady heat film transfer from a thick hot-film sensor. Journal of Thermophysics and Heat Transfer, 1994, 8, 797-799.	0.9	4
47	Green's Functions for Steady Two-Dimension Heat Conduction. , 1994, , .		2
48	Thermal characterization of thin films by photothermally induced laser beam deflection. Thin Solid Films, 1993, 224, 22-27.	0.8	15
49	Solutions of the heat conduction equation in multilayers for photothermal deflection experiments. Journal of Applied Physics, 1992, 72, 1362-1373.	1.1	51
50	Analysis of two-dimensional incompressible flows by a subsurface panel method. AIAA Journal, 1980, 18, 526-533.	1.5	8
51	Heat Conduction Using Green's Function. , 0, , .		332
52	Heat Conduction Using Greens Functions. , 0, , .		93