

Dileep Singh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

2,170
citations

22
h-index

46
g-index

54
ext. papers

2,471
ext. citations

4.2
avg, IF

4.9
L-index

#	Paper	IF	Citations
52	Defect and satellite characteristics of additive manufacturing metal powders. <i>Advanced Powder Technology</i> , 2022 , 33, 103486	4.6	1
51	Additive manufacturing and testing of a ceramic heat exchanger for high-temperature and high-pressure applications for concentrating solar power. <i>Solar Energy</i> , 2022 , 236, 654-665	6.8	0
50	High-Energy X-ray Tomographic Analysis of Precursor Metal Powders (Ti-6Al-4V) Used for Additive Manufacturing. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 610-616	1.6	1
49	One piece ceramic heat exchanger for concentrating solar power electric plants. <i>Renewable Energy</i> , 2020 , 160, 1308-1315	8.1	7
48	Binder jetting additive manufacturing of silicon carbide ceramics: Development of bimodal powder feedstocks by modeling and experimental methods. <i>Ceramics International</i> , 2020 , 46, 19701-19707	5.1	18
47	Investigation of Corrosion of 304 Stainless, Inconel 625, and Haynes 230 in a Chloride-Salt-Based Thermal Storage Medium. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 7379-7389	1.6	1
46	Experimental investigation of subcooled flow boiling of a 50/50 ethylene glycol/water mixture in finned rectangular aluminum channels. <i>Experimental Heat Transfer</i> , 2018 , 31, 482-494	2.4	6
45	Application of X-ray computed tomography for the characterization of graphite morphology in compact-graphite iron. <i>Materials Characterization</i> , 2018 , 141, 442-449	3.9	18
44	Development and prototype testing of MgCl ₂ /graphite foam latent heat thermal energy storage system. <i>Solar Energy</i> , 2018 , 159, 270-282	6.8	28
43	An investigation on the effects of phase change material on material components used for high temperature thermal energy storage system 2016 ,		4
42	Development of graphite foam infiltrated with MgCl ₂ for a latent heat based thermal energy storage (LHTES) system. <i>Renewable Energy</i> , 2016 , 94, 660-667	8.1	47
41	Analysis of a graphite foam NaCl latent heat storage system for supercritical CO ₂ power cycles for concentrated solar power. <i>Solar Energy</i> , 2015 , 118, 232-242	6.8	37
40	Use of encapsulated zinc particles in a eutectic chloride salt to enhance thermal energy storage capacity for concentrated solar power. <i>Renewable Energy</i> , 2015 , 80, 508-516	8.1	29
39	Chemically Bonded Phosphate Ceramics: Stabilization of Secondary Wastes Streams 2015 , 445-456		
38	3D quantitative analysis of graphite morphology in high strength cast iron by high-energy X-ray tomography. <i>Scripta Materialia</i> , 2015 , 106, 5-8	5.6	34
37	Subcooled Boiling Heat Transfer for Cooling of Power Electronics in Hybrid Electric Vehicles. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2015 , 137,	2	1
36	Heat transfer analysis of a latent heat thermal energy storage system using graphite foam for concentrated solar power. <i>Solar Energy</i> , 2014 , 103, 438-447	6.8	53

35	Fracture Criterion of Short Carbon Fiber-Dispersed Sic Matrix Composite Under Mixed Mode Loading Condition. <i>Ceramic Transactions</i> , 2014 , 53-60	0.1	
34	Use of metallic nanoparticles to improve the thermophysical properties of organic heat transfer fluids used in concentrated solar power. <i>Solar Energy</i> , 2014 , 105, 468-478	6.8	46
33	Development of nanosized lanthanum strontium aluminum manganite as electrodes for potentiometric oxygen sensor. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 670-676	8.5	6
32	Subcooled flow boiling of ethylene glycol/water mixtures in a bottom-heated tube. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 72, 637-645	4.9	12
31	Enhancement of Oxidation Resistance of Graphite Foams by SiC Coating for Concentrated Solar Power Applications. <i>Ceramic Engineering and Science Proceedings</i> , 2014 , 161-175	0.1	1
30	Nanofluids with encapsulated tin nanoparticles for advanced heat transfer and thermal energy storage. <i>International Journal of Energy Research</i> , 2014 , 38, 51-59	4.5	59
29	Phase change material with graphite foam for applications in high-temperature latent heat storage systems of concentrated solar power plants. <i>Renewable Energy</i> , 2014 , 69, 134-146	8.1	117
28	Investigations of heat transfer of copper-in-Therminol 59 nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 64, 1196-1204	4.9	29
27	Reaction Joining of Aluminum-Doped Lanthanum Strontium Manganese Oxide to Yttria-Stabilized Tetragonal Zirconia for Gas Sensor Applications. <i>International Journal of Applied Ceramic Technology</i> , 2012 , 9, 725-732	2	1
26	Comparative review of turbulent heat transfer of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 5380-5396	4.9	88
25	Base fluid and temperature effects on the heat transfer characteristics of SiC in ethylene glycol/H ₂ O and H ₂ O nanofluids. <i>Journal of Applied Physics</i> , 2011 , 109, 014914	2.5	118
24	Improving the heat transfer efficiency of synthetic oil with silica nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2011 , 364, 71-9	9.3	90
23	Pumping power of nanofluids in a flowing system. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 931-937	2.3	39
22	Nanofluids for heat transfer: an engineering approach. <i>Nanoscale Research Letters</i> , 2011 , 6, 182	5	121
21	Mechanisms and models of effective thermal conductivities of nanofluids. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 4824-49	1.3	21
20	Particle size and interfacial effects on thermo-physical and heat transfer characteristics of water-based alpha-SiC nanofluids. <i>Nanotechnology</i> , 2010 , 21, 215703	3.4	186
19	Particle shape effects on thermophysical properties of alumina nanofluids. <i>Journal of Applied Physics</i> , 2009 , 106, 014304	2.5	527
18	Heat transfer to a silicon carbide/water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 3606-3612	4.9	134

17	Application of SAXS to the study of particle-size-dependent thermal conductivity in silica nanofluids. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 1109-1114	2.3	74
16	Compact electrochemical bifunctional NO _x /O ₂ sensor with metal/metal oxide internal reference electrode for high temperature applications. <i>Sensors and Actuators B: Chemical</i> , 2008 , 131, 448-454	8.5	10
15	High temperature zirconia oxygen sensor with sealed metal/metal oxide internal reference. <i>Sensors and Actuators B: Chemical</i> , 2007 , 124, 192-201	8.5	42
14	Depth-dependent defect and residual stress distribution in magnetron sputtered MoN:Cu nanocomposite films by x-ray microdiffraction. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 977, 1		1
13	Depth-resolved residual strain in MoN/Mo nanocrystalline films. <i>Applied Physics Letters</i> , 2006 , 89, 172104	3.4	7
12	Mechanical Behavior of SiC(f)/SiC Composites and Correlation to in situ Fiber Strength at Room and Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 2005 , 79, 591-596	3.8	30
11	Development of Zirconium/Magnesium Phosphate Composites for Immobilization of Fission Products. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 43-49	3.8	8
10	Chemically bonded phosphate ceramics for low-level mixed-waste stabilization. <i>Journal of Environmental Science and Health Part A: Environmental Science and Engineering</i> , 1997 , 32, 527-541		8
9	Effect-of Processing Variables on Interfacial Properties of an SiC-Fiber-Reinforced Reaction-Bonded Si ₃ N ₄ Matrix Composite. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2561-2568	3.8	11
8	Analysis of pushout tests on an SiC-fiber-reinforced reaction-bonded Si ₃ N ₄ composite. <i>Composites Part B: Engineering</i> , 1993 , 3, 287-312		4
7	Subcritical Crack Growth in Soda-Lime Glass in Combined Mode I and Mode II Loading. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 3597-3606	3.8	11
6	Fracture Toughness of Polycrystalline Ceramics in Combined Mode I and Mode II Loading. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 78-84	3.8	79
5	Pumping Power of 50/50 Mixtures of Ethylene Glycol/Water Containing SiC Nanoparticles. <i>Ceramic Engineering and Science Proceedings</i> , 147-152	0.1	
4	Solid-Particle Erosion of an Al ₂ O ₃ -SiC-TiC Composite. <i>Ceramic Engineering and Science Proceedings</i> , 239-246	0.1	3
3	Influence of Fiber Lay-Up Sequence on Mechanical Properties of SiC(f)/SiC Composites		98-109 1
2	3-Dimensional Modeling of Graphitic foam Heat Sink. <i>Ceramic Engineering and Science Proceedings</i> , 105-107	0.1	1
1	Effect of Fiber Architecture on Mechanical Behavior of SiC(f)/SiC Composites. <i>Ceramic Engineering and Science Proceedings</i> , 697-708	0.1	