

Karthik Vaduganathan

List of Publications by Year in descending order

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17
papers

99
citations

1684188

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h-index

1474206

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g-index

17
all docs

17
docs citations

17
times ranked

97
citing authors

#	ARTICLE	IF	CITATIONS
1	On the phononic and electronic contribution to the enhanced thermal conductivity of water-based silver nanofluids. International Journal of Thermal Sciences, 2013, 64, 53-61.	4.9	24
2	Optimization of friction and wear behaviour of Al ₇₀ Fe ₂₀ O ₃ -B ₄ C metal matrix composites using Taguchi method. IOP Conference Series: Materials Science and Engineering, 2018, 314, 012025.	0.6	13
3	Effect of composition on the stacking fault energy of copper-nickel alloys using molecular dynamics simulations. Materials Today: Proceedings, 2021, 39, 1796-1800.	1.8	12
4	Structural, morphological and mechanical properties of electroless Ni-B based alloy coatings. Materials Today: Proceedings, 2020, 27, 2360-2363.	1.8	11
5	Effects of bulk stoichiometry and surface state of NiAl nano-dispersoid on the stability and heat transfer characteristics of water based nanofluid. Experimental Thermal and Fluid Science, 2013, 48, 156-162.	2.7	8
6	Effect of 10 at.% Nb Addition on Sintering and High Temperature Oxidation of W _{0.5} Cr _{0.5} Alloy. Materials Science Forum, 0, 710, 308-313.	0.3	4
7	Development of hydroxyapatite/polyvinyl alcohol bionanocomposite for prosthesis implants. IOP Conference Series: Materials Science and Engineering, 2018, 314, 012031.	0.6	4
8	Enhancement of thermal conductivity of Cu-Cr dispersed nanofluids according to multiscale modeling. Materials Today: Proceedings, 2020, 33, 5514-5520.	1.8	4
9	Effect of welding parameters on joint strength of rotary friction welded UNS S31803 tubes. Materials Today: Proceedings, 2021, 39, 1265-1269.	1.8	4
10	Influence of Asymmetric Cyclic Loading on Structural Evolution and Deformation Behavior of Cu-5 at.% Zr Alloy: An Atomistic Simulation-Based Study. Journal of Materials Engineering and Performance, 2017, 26, 5197-5205.	2.5	3
11	Shear Fracture and Industrial Overload Failure of Mechanical Fuse Shear Pin. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012004.	0.6	3
12	Microbiological corrosion of ASTM SA105 carbon steel pipe for industrial fire water usage. IOP Conference Series: Materials Science and Engineering, 2018, 314, 012027.	0.6	3
13	Synthesis and characterization of Ag and Al doped ZnO dispersed nanofluids for heat transfer applications. Materials Today: Proceedings, 2020, 27, 2364-2367.	1.8	3
14	Superplastic Pd ₅₀ Pt ₅₀ monocrystalline bimetallic alloy nanowire: a molecular dynamics simulation study. Metallurgical Research and Technology, 2017, 114, 302.	0.7	2
15	Failure Analysis of Gold Dust defect in 430 grade Stainless Steel. IOP Conference Series: Materials Science and Engineering, 2018, 314, 012003.	0.6	1
16	Elevated Temperature Compression Behavior of Al-Cu ₅₀ Zr ₅₀ Nano-laminates. Transactions of the Indian Institute of Metals, 2020, 73, 1579-1585.	1.5	0
17	Atomistic modelling of carbon nanotube networks and analysis of inter filler distance. Materials Today: Proceedings, 2021, 39, 1791-1795.	1.8	0