Kannan C

List of Publications by Citations

36 papers	406 citations	8 h-index	19 g-index
44 ext. papers	530 ext. citations	2.5 avg, IF	4.51 L-index

#	Paper	IF	Citations
36	Effect of exhaust gas recirculation on advanced diesel combustion and alternate fuels - A review. *Applied Energy*, **2016**, 180, 169-184	10.7	122
35	Comparative study on the mechanical and microstructural characterisation of AA 7075 nano and hybrid nanocomposites produced by stir and squeeze casting. *Journal of Advanced Research*, **2017**, 8, 309-319	13	106
34	Assessment of drilling-induced damage in CFRP under chilled air environment. *Materials and Manufacturing Processes*, **2018**, 33, 1361-1368	4.1	32
33	Machinability studies on Al 7075/BN/Al2O3 squeeze cast hybrid nanocomposite under different machining environments. *Materials and Manufacturing Processes*, **2018**, 33, 587-595	4.1	28
32	Effectiveness evaluation of molten salt processing and ultrasonic cavitation techniques during the production of aluminium based hybrid nanocomposites - An experimental investigation. *Journal of Alloys and Compounds*, **2018**, 751, 183-193	5.7	18
31	Exploring grinding and burnishing as surface post-treatment options for electron beam additive manufactured Alloy 718. *Surface and Coatings Technology*, **2020**, 397, 126063	4.4	12
30	An investigation on the tribological characteristics of Al 7075 based single and hybrid nanocomposites. *Materials Today: Proceedings*, **2018**, 5, 12837-12847	1.4	11
29	Effect of chilled air on delamination, induced vibration, burr formation and surface roughness in CFRP drilling: a comparative study. *Materials Research Express*, **2019**, 6, 035305	1.7	10
28	Effect of Cryogenic Grinding on Fatigue Life of Additively Manufactured Maraging Steel. *Materials*, **2021**, 14,	3.5	7
27	4D printed stereolithography printed plant-based sustainable polymers: Preliminary investigation and optimization. *Journal of Applied Polymer Science*, **2021**, 138, 50903	2.9	7
26	Machinability studies on aluminium matrix nanocomposite under the influence of MQL. *Materials Today: Proceedings*, **2020**, 22, 1507-1516	1.4	5
25	4D Printing of Smart Polymer Nanocomposites: Integrating Graphene and Acrylate Based Shape Memory Polymers. *Polymers*, **2021**, 13,	4.5	5
24	Mechanical and tribological behaviour of molten salt processed self-lubricated aluminium composite under different treatments. *Materials Research Express*, **2018**, 5, 055040	1.7	5
23	Advanced liquid state processing techniques for ex-situ discontinuous particle reinforced nanocomposites: A review. *Science and Technology of Materials*, **2018**, 30, 109-119		4
22	Smart ceramic materials for homogeneous combustion in internal combustion engines: A review. *Thermal Science*, **2009**, 13, 153-163	1.2	4
21	Experimental analysis of higher alcohol based ternary biodiesel blends in CI engine parameters through multivariate and desirability approaches. *Biomass Conversion and Biorefinery*, **2020**, 1	2.3	4
20	Two zone modeling of combustion, performance and emission characteristics of a cylinder head porous medium engine with experimental validation. *Multidiscipline Modeling in Materials and Structures*, **2016**, 12, 495-513	2.2	4

19	Critical review towards thermal management systems of lithium-ion batteries in electric vehicle with its electronic control unit and assessment tools. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2021**, 235, 1783-1807	1.4	4
18	Experimental Investigation and Parametric Optimization on Hole Quality Assessment During Drilling of CFRP/GFRP/Al Stacks. *Journal of the Institution of Engineers (India): Series C*, **2020**, 101, 291-302	0.9	3
17	Effect of Cryogenics-Assisted Low-Plasticity Burnishing on Laser-Clad Stellite 6 over SS420 Substrate. *Journal of Materials Engineering and Performance*, **2020**, 29, 6861-6869	1.6	2
16	Optimizing thermal performance of a dry rigid clutch by varying groove pattern and friction material. *Materials Today: Proceedings*, **2021**, 46, 7459-7467	1.4	2
15	Critical analysis on the implementation barriers and consumer perception toward future electric mobility. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*,095440702210803	1.4	2
14	Detection of Buried Objects using active Sonar **2015**,		1
13	Influence of Exhaust Gas Recirculation, and Injection Timing on the Combustion, Performance and Emission Characteristics of a Cylinder Head Porous Medium Engine. *Journal of Thermodynamics*, **2015**, 2015, 1-10		1
12	Part Load Performance and Emission Improvement of Direct Injection Diesel Engine through Porous Medium Combustion Technique. *Clean - Soil, Air, Water*, **2009**, 37, 806-810	1.6	1
11	Optimization of Stir Casting Parameters for Manufacturing Aluminium Based Nanocomposites Through Numerical Investigation. *Advanced Science Letters*, **2018**, 24, 5816-5820	0.1	1
10	Numerical Study of Effect of Material and Orientation on Strength of Side Door Intrusion Beam		1
9	Potential assessment of Al 7075/BN composites for lightweight applications **2020**,		1
8	Design and analysis of composite mono leaf spring for passenger cars. *Materials Today: Proceedings*, **2021**, 46, 7090-7098	1.4	1
7	Application of exhaust gas recirculation for NOx reduction in CI engines **2022**, 189-222		0
6	Influence of Material and Spoke Pattern on the Performance of Automotive Wheels. *Materials Today: Proceedings*, **2020**, 22, 1452-1459	1.4	0
5	Mathematical modeling and optimization of tribological behaviour of Al 7075 based hybrid nanocomposites. *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, **2021**, 235, 1561-1574	1.4	0
4	Burnishing of ultra high molecular weight poly ethylene. *Materials Today: Proceedings*, **2021**, 46, 7479-7486	1.4	0
3	Corrosion behaviour of novel molten salt processed aluminium nanocomposites under different treated conditions. *Materials Research Express*, **2019**, 6, 1150f7	1.7	
2	Impact of Inlet Angle on Cooling of a Continuously Variable Transmission in a BAJA SAE Vehicle. *Lecture Notes in Mechanical Engineering*, **2021**, 47-56	0.4	

1 Development of Bio-hybrid Tractor for Farming Applications. *Lecture Notes on Multidisciplinary Industrial Engineering*, **2020**, 143-156 0.3