

Vijayan

List of Publications by Year in descending order

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69
papers

1,666
citations

471509

17
h-index

302126

39
g-index

69
all docs

69
docs citations

69
times ranked

491
citing authors

#	ARTICLE	IF	CITATIONS
1	Support vector machine for modelling and simulation of heat exchangers. Thermal Science, 2020, 24, 499-503.	1.1	233
2	Investigation of air conditioning temperature variation by modifying the structure of passenger car using computational fluid dynamics. Thermal Science, 2020, 24, 495-498.	1.1	153
3	Optimal ordering strategy pricing model with worsening materials in fuzzy environment. Materials Today: Proceedings, 2020, 21, 158-163.	1.8	118
4	Parameters of Porosity and Compressive Strength-Based Optimization on Reinforced Aluminium from the Recycled Waste Automobile Frames. Advances in Materials Science and Engineering, 2021, 2021, 1-10.	1.8	101
5	Teaching learning optimization and neural network for the effective prediction of heat transfer rates in tube heat exchangers. Thermal Science, 2020, 24, 575-581.	1.1	98
6	Investigations on influences of MWCNT composite membranes in oil refineries waste water treatment with Taguchi route. Chemosphere, 2022, 298, 134265.	8.2	94
7	Influence of surface roughness in turning process " an analysis using artificial neural network. Transactions of the Canadian Society for Mechanical Engineering, 2019, 43, 509-514.	0.8	88
8	Effect of reinforced aluminium alloy LM30 with pure ceramic particles to evaluate hardness and wear properties. Materials Research Innovations, 2020, 24, 129-132.	2.3	79
9	Assessment of mechanical properties of Silicon Carbide and Graphene reinforced aluminium composite. Materials Today: Proceedings, 2020, 21, 744-747.	1.8	44
10	Additive manufacturing " State of art. Materials Today: Proceedings, 2020, 21, 628-633.	1.8	42
11	Diffraction, microstructure and thermal stability analysis in a double phase nanocrystalline Al ₂ O ₃ Mg ₂ Ni ₂ Cr ₂ Ti ₂ high entropy alloy. Journal of the Mechanical Behavior of Materials, 2017, 26, 127-132.	1.8	34
12	A review on recent progresses in machining methods based on abrasive water jet machining. Materials Today: Proceedings, 2020, 21, 116-122.	1.8	27
13	Development of Thermo Mechanical Model for Prediction of Temperature Diffusion in Different FSW Tool Pin Geometries During Joining of AZ80A Mg Alloys. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 3196-3212.	3.7	27
14	Electrochemical machining behaviour of AA6063-TiC composites by using response surface methodology. Materials Today: Proceedings, 2020, 21, 592-594.	1.8	24
15	Synthesize and characterizations of glass/treated selective sisal fiber hybrid composite. AIP Conference Proceedings, 2020, , .	0.4	24
16	Thermal augmentation in parabolic trough collector solar water heater using rings attached twisted tapes. Materials Today: Proceedings, 2020, 21, 127-129.	1.8	23
17	Ecological effect of corn oil biofuel with SiO ₂ nano-additives. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 2845-2852.	2.3	21
18	CFD modeling and analysis of a two-phase vapor separator. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2719-2726.	3.6	19

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19	Measurement of roughness on hardened D-3 steel and wear of coated tool inserts. Transactions of the Institute of Measurement and Control, 2021, 43, 528-536.	1.7	18
20	The Investigation on Newly Developed of Hydrophobic Coating on Cast AZ91D Magnesium Alloy Under 3.5Åwt% NaCl Solutions. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 1246-1258.	3.7	18
21	Stability analysis of heat transfer hybrid/water nanofluids. Materials Today: Proceedings, 2020, 21, 708-712.	1.8	17
22	Influence of chemical treatment in synthesise and characterization sisal/glass hybrid composite. AIP Conference Proceedings, 2020, , .	0.4	17
23	Environmental effect of CI engine using microalgae biofuel with nano-additives. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 2429-2438.	2.3	16
24	Combustion analysis of biodiesel blends with different piston geometries. Journal of Thermal Analysis and Calorimetry, 2020, 142, 1457-1467.	3.6	16
25	Computer vision measurement and optimization of surface roughness using soft computing approaches. Transactions of the Institute of Measurement and Control, 2020, 42, 2475-2481.	1.7	16
26	Experimental Investigation on Tribological Behaviour of AA6066: HSS-Cu Hybrid Composite in Dry Sliding Condition. Advances in Materials Science and Engineering, 2022, 2022, 1-9.	1.8	16
27	Improving the Mechanical Properties of Natural Fiber Composites of Hemp Fiber with Ramie and Banana Fiber through Compression Molding Method. Advances in Materials Science and Engineering, 2021, 2021, 1-8.	1.8	15
28	Performance analysis of solar water heater by using TiO ₂ nanofluids. Materials Today: Proceedings, 2020, 21, 817-819.	1.8	14
29	Investigation of latent heat storage system using graphite micro-particle enhancement. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2181-2186.	3.6	14
30	Dwindling setup time through a low-cost mechanization “ A case study. AIP Conference Proceedings, 2020, , .	0.4	13
31	Performance Analysis of Surface Roughness modeling using Soft Computing Approaches. Applied Mathematics and Information Sciences, 2018, 12, 1209-1217.	0.5	13
32	Synthesis and Characterization of Mechanical Properties of AA8014 + Si ₃ N ₄ / ZrO ₂ Hybrid Composites by Stir Casting Process. Advances in Materials Science and Engineering, 2022, 2022, 1-11.	1.8	13
33	Study on Optimization of WEDM Process Parameters on Stainless Steel. Journal of Nanomaterials, 2022, 2022, 1-7.	2.7	13
34	Experimental analysis of Al-Cu-Si metal matrix composite by powder-metallurgy process. Materials Today: Proceedings, 2021, 37, 2770-2774.	1.8	12
35	Investigation and optimization of laser welding process parameters for AA7068 aluminium alloy butt joint. Materials Today: Proceedings, 2021, 37, 1672-1677.	1.8	12
36	Flame Resistance Characteristics of Woven Jute Fiber Reinforced Fly Ash Filled Polymer Composite. Journal of Nanomaterials, 2022, 2022, 1-12.	2.7	12

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37	Multiply of process speed, quality and safety through low-cost automation – A case study. AIP Conference Proceedings, 2020, , .	0.4	10
38	Neural Network Modeling for Face Milling Operation. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	10
39	Tribological Behavior and Analysis on Surface Roughness of CNC Milled Dual Heat Treated Al6061 Composites. Advances in Materials Science and Engineering, 2021, 2021, 1-14.	1.8	10
40	Synthesis and Characterization of Banana and Pineapple Reinforced Hybrid Polymer Composite for Reducing Environmental Pollution. Bioinorganic Chemistry and Applications, 2022, 2022, 1-8.	4.1	10
41	An Investigation of Electrospun Clerodendrum phlomidis Leaves Extract Infused Polycaprolactone Nanofiber for In Vitro Biological Application. Bioinorganic Chemistry and Applications, 2022, 2022, 1-16.	4.1	9
42	Passive Vibration Isolation by Compliant Mechanism Using Topology Optimization with Building Blocks. Research Journal of Applied Sciences, Engineering and Technology, 2014, 8, 1522-1530.	0.1	8
43	Evaluation of Mechanical Properties of Banana and Glass-Epoxy Hybrid Composites with Addition of Copper Powder. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	8
44	Physical, chemical and optical properties of CdSe and CdSe:Zn thin films obtained through low cost electrochemical route. Materials Today: Proceedings, 2020, 21, 73-77.	1.8	7
45	Experimental investigation glass/sodium oxidanide treated banana fiber hybrid. AIP Conference Proceedings, 2020, , .	0.4	7
46	Investigation of Mechanical Behaviour on Composites of Al6063 Alloy with Silicon, Graphite and Fly Ash. Journal of New Materials for Electrochemical Systems, 2020, 23, 36-39.	0.6	7
47	A review of material and coatings in solar collectors. Materials Today: Proceedings, 2020, 21, 497-499.	1.8	6
48	Experimental Investigation of Tensile Strength of Fiber Reinforced Polyester by Using Chicken Feather Fiber. Journal of New Materials for Electrochemical Systems, 2020, 23, 40-44.	0.6	6
49	Comparison of coated and uncoated carbide drill bits for drilling titanium grade 2 material. Mechanika, 2017, 22, .	0.5	6
50	Experimental evaluation on natural composites with the incorporation of metal powders. Materials Today: Proceedings, 2020, 21, 434-437.	1.8	5
51	Phase evolution and characterization of mechanically alloyed hexanary Al _{16.6} Mg _{16.6} Ni _{16.6} Cr _{16.6} Ti _{16.6} Mn _{16.6} high entropy alloy. Metal Powder Report, 2020, 75, 209-214.	0.1	5
52	An experimental investigation on a low heat rejection diesel engine using waste plastic oil with different injection timing. Thermal Science, 2020, 24, 453-461.	1.1	5
53	Study of various types cladding and the evolvment of the techniques through years and the future scope – A review. Materials Today: Proceedings, 2020, 21, 773-776.	1.8	4
54	Experimental optimization of corrosion rate analysis for AA 5083 – Titanium Diboride (TiB ₂) composites. Materials Today: Proceedings, 2021, 37, 3256-3261.	1.8	4

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55	Investigation on mechanical properties of Al6061 alloy “ Multiwall carbon nanotubes reinforced composites by powder metallurgy route. Materials Today: Proceedings, 2021, 37, 336-340.	1.8	3
56	Mathematical model of fluid flow and heat exchanger. Thermal Science, 2019, , 429-429.	1.1	3
57	Colloidal Nanosilica Effect on the Properties and Durability of Coir Reinforced Cement Brick. Advances in Materials Science and Engineering, 2022, 2022, 1-9.	1.8	3
58	Degradation Analysis of Jute Fiber Reinforced Waste Tile Powder-Filled Polymer Composite on Wear Characteristics. International Journal of Polymer Science, 2021, 2021, 1-13.	2.7	3
59	Growth and characterisation of zinc oxide thin films by sputtering technique. Materials Today: Proceedings, 2020, 21, 912-915.	1.8	2
60	Assessment on effect of silicon carbide and copper reinforcement on AL7075 alloy. AIP Conference Proceedings, 2021, , .	0.4	2
61	Fabrication and analysis of aluminium filled epoxy resin composites for mechanical properties. AIP Conference Proceedings, 2021, , .	0.4	2
62	Analysis of Machining Parameters in Turning Operation on Duplex 2205 by using RSM for Vehicle Structure. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	2
63	Passive Vibration Isolation by Compliant Mechanism Using Topology Optimization. International Journal of Acoustics and Vibrations, 2014, 19, .	0.3	2
64	Structural, compositional and optical properties of electrochemically grown iron diselenide thin films. Materials Today: Proceedings, 2020, 21, 483-487.	1.8	1
65	Cluster Analysis of Lost Foam Casted Al-Zn-Mg-Cu Alloy with “Mean Algorithm. Journal of New Materials for Electrochemical Systems, 2020, 23, 45-51.	0.6	1
66	Synthesis and Optimization of Deesterified Acacia-Alginate Nanohydrogel for Amethopterin Delivery. Bioinorganic Chemistry and Applications, 2022, 2022, 1-10.	4.1	1
67	Assessment of structural, morphological and optical properties of ZnO thin films grown by physical and chemical techniques. Materials Today: Proceedings, 2020, 21, 1022-1025.	1.8	0
68	Design, fabrication and analysis of polymer matrix composite with fiber reinforcement. AIP Conference Proceedings, 2021, , .	0.4	0
69	A Facile Synthesis of MgFe ₂ O ₄ /ZnS Heterojunction with Effectively Enhanced Visible Light Photocatalytic Activity for Degradation of Methylene Blue and Crystal Violet Dyes. Journal of Cluster Science, 0, , .	3.3	0