

# Rahul Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

358  
citations

1163117

8  
h-index

888059

17  
g-index

34  
all docs

34  
docs citations

34  
times ranked

252  
citing authors

#	ARTICLE	IF	CITATIONS
1	Post covid 19 pulmonary fibrosis. Is it real threat?. Indian Journal of Tuberculosis, 2021, 68, 330-333.	0.7	96
2	Thermal performance and behavior analysis of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> and MgO based nano-enhanced phase-changing materials, latent heat thermal energy storage system. Journal of Energy Storage, 2022, 48, 103977.	8.1	39
3	Performance enhancement analysis of triangular solar air heater coated with nanomaterial embedded in black paint. Materials Today: Proceedings, 2020, 26, 2528-2532.	1.8	26
4	Past, present and future of blood pressure measuring instruments and their calibration. Measurement: Journal of the International Measurement Confederation, 2021, 172, 108845.	5.0	26
5	Thermal modelling and characteristic evaluation of electric vehicle battery system. Case Studies in Thermal Engineering, 2021, 26, 101058.	5.7	16
6	Development of Remote Wireless Environmental Conditions Measurement, Monitoring and Recording Device for Metrological and Other Scientific Applications. Mapan - Journal of Metrology Society of India, 2020, 35, 193-199.	1.5	15
7	Comparison of Monte Carlo Simulation, Least Square Fitting and Calibration Factor Methods for the Evaluation of Measurement Uncertainty Using Direct Pressure Indicating Devices. Mapan - Journal of Metrology Society of India, 2019, 34, 305-315.	1.5	14
8	Performance estimation of Triangular Solar air heater roughened absorber surface: An experimental and simulation modeling. Sustainable Energy Technologies and Assessments, 2022, 52, 102208.	2.7	11
9	CuO Nanoparticle Enhanced Paraffin for Latent Heat Storage Applications. IOP Conference Series: Materials Science and Engineering, 2021, 1116, 012061.	0.6	9
10	Structural and conformational changes induced by missense variants in the zinc finger domains of GATA3 involved in breast cancer. RSC Advances, 2020, 10, 39640-39653.	3.6	8
11	Experimental investigation of nanomaterial doped in black paint coating on absorber for energy conversion applications. Materials Today: Proceedings, 2021, 44, 961-967.	1.8	8
12	Numerical investigation of performance analysis of Triangular Solar air heater using Computational Fluid Dynamics (CFD). IOP Conference Series: Materials Science and Engineering, 2021, 1116, 012047.	0.6	8
13	High-Speed Interconnects: History, Evolution, and the Road Ahead. IEEE Microwave Magazine, 2022, 23, 66-82.	0.8	8
14	Development of transcriptome-wide SSR markers for genetic diversity and structure analysis in <i>Macrotyloma uniflorum</i> (Lam.) Verdc.. Physiology and Molecular Biology of Plants, 2020, 26, 2255-2266.	3.1	7
15	A Temperature and Dielectric Roughness-Aware Matrix Rational Approximation Model for the Reliability Assessment of Copper-Graphene Hybrid On-Chip Interconnects. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1454-1465.	2.5	7
16	Population structure and regeneration status of <i>Shorea robusta</i> and associated trees in Sal forests of Ranchi, Eastern India. Tropical Ecology, 2021, 62, 34-51.	1.2	7
17	Design, Modeling and Analysis of Cu-Carbon Hybrid Interconnects. IEEE Access, 2021, 9, 113577-113584.	4.2	7
18	Deciphering the impact of missense mutations on structure and dynamics of SMAD4 protein involved in pathogenesis of gall bladder cancer. Journal of Biomolecular Structure and Dynamics, 2021, 39, 1940-1954.	3.5	6

#	ARTICLE	IF	CITATIONS
19	Review based on the absorber plate coating for solar air heater applications. IOP Conference Series: Materials Science and Engineering, 2021, 1116, 012053.	0.6	5
20	Computational investigation reveals that the mutant strains of SARS-CoV2 have differential structural and binding properties. Computer Methods and Programs in Biomedicine, 2022, 215, 106594.	4.7	5
21	Analytical Model for Inverter Design Using Floating Gate Graphene Field Effect Transistors. , 2014, , .		4
22	Role of Grain Size on the Effective Resistivity of Cu-Graphene Hybrid Interconnects. , 2020, , .		4
23	Comparative structural analysis of CNC milling machine bed using Al-SiC/graphite, Al alloy and Al-SiC composite material. Materials Today: Proceedings, 2022, 51, 735-741.	1.8	4
24	Application of phase change material in thermal energy storage systems. Materials Today: Proceedings, 2022, 63, 798-804.	1.8	4
25	Design and Development of a Temperature-Compensated Body Mass Index Measuring System. Mapan - Journal of Metrology Society of India, 2021, 36, 287-294.	1.5	3
26	Performance evaluation of cerium oxide/water nanofluid based FPSC: An experimental analysis. Materials Today: Proceedings, 2022, 56, 1659-1667.	1.8	3
27	Estimating Per-Unit-Length Resistance Parameter in Emerging Copper-Graphene Hybrid Interconnects via Prior Knowledge based Accelerated Neural Networks. , 2020, , .		2
28	Temperature-Aware Closed-Form Matrix Rational Approximation Model for Crosstalk Analysis of Multi-Walled Carbon Nanotube Interconnects. , 2019, , .		1
29	Temperature-Aware Compact Modeling for Resistivity in Ultra-Scaled Cu-Graphene Hybrid Interconnects. , 2020, , .		1
30	Structural based screening of potential inhibitors of SMAD4: a step towards personalized medicine for gall bladder and other associated cancers. Molecular Diversity, 2021, 25, 1945-1961.	3.9	1
31	In silico drug designing for COVID-19: an approach of high-throughput virtual screening, molecular, and essential dynamics simulations. Journal of Biomolecular Structure and Dynamics, 2021, , 1-15.	3.5	1
32	A High Step-Up Switched Z-Source Converter (HS-SZC) with Minimal Components Count for Enhancing Voltage Gain. Electronics (Switzerland), 2021, 10, 924.	3.1	1
33	Pump performance improvement using DMAIC method for industrial application. IOP Conference Series: Materials Science and Engineering, 2021, 1116, 012087.	0.6	1
34	Performance Analysis of Self Heated Multilayer Vertical Graphene Nanoribbon Interconnects. , 2021, , .		0