

# Vineet Tirth

## List of Publications by Year in descending order

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103  
papers

1,484  
citations

361413

20  
h-index

395702

33  
g-index

105  
all docs

105  
docs citations

105  
times ranked

1007  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of MPPT Techniques Under Uniform and Non-Uniform Solar Irradiation Conditionâ€“A Retrospection. IEEE Access, 2020, 8, 127368-127392.	4.2	146
2	Design and thermal performance evaluation of a novel solar air heater. Renewable Energy, 2015, 77, 501-511.	8.9	75
3	Recent technologies for nutrient removal and recovery from wastewaters: A review. Chemosphere, 2021, 277, 130328.	8.2	56
4	Advances in the Methods for the Synthesis of Carbon Dots and Their Emerging Applications. Polymers, 2021, 13, 3190.	4.5	56
5	Biological Synthesis of Nanocatalysts and Their Applications. Catalysts, 2021, 11, 1494.	3.5	54
6	Seaweed-Based Molecules and Their Potential Biological Activities: An Eco-Sustainable Cosmetics. Molecules, 2021, 26, 5313.	3.8	49
7	COVID-19 transmission, vulnerability, persistence and nanotherapy: a review. Environmental Chemistry Letters, 2021, 19, 2773-2787.	16.2	43
8	Tribological characterization and rheology of hybrid calcium grease with graphene nanosheets and multi-walled carbon nanotubes as additives. Journal of Materials Research and Technology, 2020, 9, 6178-6185.	5.8	41
9	Mechanical and Corrosion Studies of Friction Stir Welded Nano Al <sub>2</sub> O <sub>3</sub> Reinforced Al-Mg Matrix Composites: RSM-ANN Modelling Approach. Symmetry, 2021, 13, 537.	2.2	41
10	The Processing of Calcium Rich Agricultural and Industrial Waste for Recovery of Calcium Carbonate and Calcium Oxide and Their Application for Environmental Cleanup: A Review. Applied Sciences (Switzerland), 2021, 11, 4212.	2.5	40
11	Recent Advances in Synthesis and Degradation of Lignin and Lignin Nanoparticles and Their Emerging Applications in Nanotechnology. Materials, 2022, 15, 953.	2.9	39
12	Neuropharmacological and Antidiabetic Potential of Lansea coromandelica (Houtt.) Merr. Leaves Extract: An Experimental Analysis. Evidence-based Complementary and Alternative Medicine, 2022, 2022, 1-10.	1.2	38
13	Review of Online and Soft Computing Maximum Power Point Tracking Techniques under Non-Uniform Solar Irradiation Conditions. Energies, 2020, 13, 3256.	3.1	36
14	Impact of Big Data Analysis on Nanosensors for Applied Sciences Using Neural Networks. Journal of Nanomaterials, 2021, 2021, 1-9.	2.7	36
15	Recent Trends in Fascinating Applications of Nanotechnology in Allied Health Sciences. Crystals, 2022, 12, 39.	2.2	33
16	Experimental design of Al <sub>2</sub> O <sub>3</sub> /MWCNT/HDPE hybrid nanocomposites for hip joint replacement. Bioengineered, 2020, 11, 679-692.	3.2	29
17	Wear performance and mechanical properties of MWCNT/HDPE nanocomposites for gearing applications. Journal of Materials Research and Technology, 2021, 12, 2476-2488.	5.8	28
18	Upgrading combined anaerobic-aerobic UASB-FPU to UASB-DHS system: Cost comparison and performance perspective for developing countries. Journal of Cleaner Production, 2021, 284, 124723.	9.3	27

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19	Nanomaterials: A Promising Therapeutic Approach for Cardiovascular Diseases. Journal of Nanomaterials, 2022, 2022, 1-25.	2.7	24
20	Dry Sliding Wear Behavior of 2218 Al-Alloy-Al <sub>2</sub> O <sub>3</sub> (TiO <sub>2</sub> ) Hybrid Composites. Journal of Tribology, 2018, 140, .	1.9	23
21	Design and Performance Analysis of a Solar Air Heater With High Heat Storage. Distributed Generation and Alternative Energy Journal, 2014, 29, 35-55.	0.8	20
22	Machine Learning-Based Secure Data Acquisition for Fake Accounts Detection in Future Mobile Communication Networks. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	1.2	20
23	Recent Advances in Methods for Recovery of Cenospheres from Fly Ash and Their Emerging Applications in Ceramics, Composites, Polymers and Environmental Cleanup. Crystals, 2021, 11, 1067.	2.2	19
24	Health and Environmental Risks of Incense Smoke: Mechanistic Insights and Cumulative Evidence. Journal of Inflammation Research, 2022, Volume 15, 2665-2693.	3.5	19
25	Extraction of Value-Added Minerals from Various Agricultural, Industrial and Domestic Wastes. Materials, 2021, 14, 6333.	2.9	17
26	Solution Processed Zn <sub>1-x</sub> Sm <sub>x</sub> Cu <sub>y</sub> O Nanorod Arrays for Dye Sensitized Solar Cells. Nanomaterials, 2021, 11, 1710.	4.1	15
27	Effect of Sn-doping on the structural, optical, dielectric and magnetic properties of ZnO nanoparticles for spintronics applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 21631-21642.	2.2	15
28	Nanobioremediation: A sustainable approach towards the degradation of sodium dodecyl sulfate in the environment and simulated conditions. Journal of Basic Microbiology, 2022, 62, 348-360.	3.3	15
29	Structural Elucidation, Electronic and Microwave Dielectric Properties of Ca(Sn <sub>x</sub> Ti <sub>1-x</sub> )O <sub>3</sub> , (0 ≤ x ≤ 0.8) Lead-Free Ceramics. ACS Omega, 2022, 7, 4667-4676.	3.5	15
30	An experimental and empirical assessment of machining damage of hybrid glass-carbon FRP composite during abrasive water jet machining. Journal of Materials Research and Technology, 2022, 19, 1148-1161.	5.8	15
31	Effect of Squeeze Pressure on Aging and Mechanical Properties of AA2218-5Wt%Al <sub>2</sub> O <sub>3</sub> (TiO <sub>2</sub> ) Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 1246-1254.	2.2	14
32	Optimization of the Rheological Properties and Tribological Performance of SAE 5w-30 Base Oil with Added MWCNTs. Lubricants, 2021, 9, 94.	2.9	14
33	Influence of Graphene Nano Fillers and Carbon Nano Tubes on the Mechanical and Thermal Properties of Hollow Glass Microsphere Epoxy Composites. Processes, 2022, 10, 40.	2.8	14
34	Wear resistance of maraging steel developed by direct metal laser sintering. Materials Express, 2020, 10, 1079-1090.	0.5	13
35	Simulation Guided Microfluidic Design for Multitarget Separation Using Dielectrophoretic Principle. Biochip Journal, 2020, 14, 390-404.	4.9	13
36	Tribological evaluation of date seed oil and castor oil blends with halloysite nanotube additives as environment friendly bio-lubricants. Biomass Conversion and Biorefinery, 0, , 1.	4.6	13

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37	A Short Review on the Utilization of Incense Sticks Ash as an Emerging and Overlooked Material for the Synthesis of Zeolites. <i>Crystals</i> , 2021, 11, 1255.	2.2	13
38	Contribution of DFT to the optimization of Ni-based catalysts for dry reforming of methane: a review. <i>Catalysis Reviews - Science and Engineering</i> , 2023, 65, 1468-1520.	12.9	13
39	An Estimating the Effect of Process Parameters on Metal Removal Rate and Surface Roughness in WEDM of Composite Al6063/SiC/Al <sub>2</sub> O <sub>3</sub> by Taguchi Method. <i>Strojnický Casopis</i> , 2017, 67, 25-36.	0.9	12
40	A comparative study of different low-cost sensible heat storage materials for solar air heating: an experimental approach. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 912-933.	2.3	12
41	Assessment of Antioxidative and Alpha-Amylase Potential of Polyherbal Extract. <i>Evidence-based Complementary and Alternative Medicine</i> , 2022, 2022, 1-10.	1.2	12
42	Experimental Studies on Corrosion Behavior of Ceramic Surface Coating using Different Deposition Techniques on 6082-T6 Aluminum Alloy. <i>Processes</i> , 2018, 6, 240.	2.8	11
43	Applying Bayesian Markov chain Monte Carlo (MCMC) modeling to predict the melting behavior of phase change materials. <i>Journal of Energy Storage</i> , 2022, 45, 103570.	8.1	11
44	Surface modification of CuO nanoparticles with conducting polythiophene as a non-enzymatic amperometric sensor for sensitive and selective determination of hydrogen peroxide. <i>Surfaces and Interfaces</i> , 2022, 31, 101998.	3.0	11
45	A Review of Recent Patents on Solar Air Heaters. <i>Recent Patents on Engineering</i> , 2015, 9, 2-20.	0.4	10
46	Investigations of the Tribological Performance of A390 Alloy Hybrid Aluminum Matrix Composite. <i>Materials</i> , 2018, 11, 2524.	2.9	10
47	Effect of Fluoride Concentration in Drinking Water on Dental Fluorosis in Southwest Saudi Arabia. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3914.	2.6	10
48	GREENHOUSE GAS EMISSIONS DUE TO THE CONSTRUCTION OF RESIDENTIAL BUILDINGS IN MORADABAD, INDIA. <i>Applied Ecology and Environmental Research</i> , 2019, 17, .	0.5	10
49	Synthesis and characterization studies of high-density polyethylene -based nanocomposites with enhanced surface energy, tribological, and electrical properties. <i>Polymer Testing</i> , 2021, 98, 107193.	4.8	9
50	Analysis of digital light synthesis based flexible and rigid polyurethane for applications in automobile bumpers. <i>Materials Express</i> , 2019, 9, 839-850.	0.5	8
51	Evolution of Temperature Field around Underground Power Cable for Static and Cyclic Heating. <i>Energies</i> , 2021, 14, 8191.	3.1	8
52	A machine learning algorithm for classification of mental tasks. <i>Computers and Electrical Engineering</i> , 2022, 99, 107785.	4.8	8
53	Comprehensive review on polymer composites as electromagnetic interference shielding materials. <i>Polymers and Polymer Composites</i> , 2022, 30, 096739112211021.	1.9	8
54	Tribological characterization of stir cast 2218 alloy-5%-alumina-titania hybrid microcomposites developed by liquid forging. <i>Materials Express</i> , 2018, 8, 475-488.	0.5	7

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55	Efficient Topology for DC-DC Boost Converter Based on Charge Pump Capacitor for Renewable Energy System. International Journal of Photoenergy, 2021, 2021, 1-13.	2.5	7
56	Automation Monitoring With Sensors For Detecting Covid Using Backpropagation Algorithm. KSII Transactions on Internet and Information Systems, 2021, 15, .	0.3	7
57	Investigation on Control Burned of Bagasse Ash on the Properties of Bagasse Ash-Blended Mortars. Materials, 2021, 14, 4991.	2.9	7
58	Effect of Vinasse Recycling on Effluent Reduction from Distilleries: Case of Metehara Distillery, Ethiopia. Processes, 2022, 10, 7.	2.8	7
59	Experimental investigation on the flexural response of epoxy composites filled with environmental pollutant crump rubber. Materials Research Express, 2022, 9, 035503.	1.6	6
60	Influence of bifurcation angle in left coronary artery with stenosis: A CFD analysis. Bio-Medical Materials and Engineering, 2020, 31, 339-349.	0.6	5
61	Characterization and mechanical properties of stir-rheo-squeeze cast AA5083/MWCNTs/GNs hybrid nanocomposites developed using a novel preform-billet method. Journal of Materials Research and Technology, 2021, 10, 1195-1209.	5.8	5
62	IOT Based Smart Wastewater Treatment Model for Industry 4.0 Using Artificial Intelligence. Scientific Programming, 2022, 2022, 1-11.	0.7	5
63	Quasi-Static Flexural Behavior of Epoxy-Matrix-Reinforced Crump Rubber Composites. Processes, 2022, 10, 956.	2.8	5
64	Effects of Strontium on the Structural, Optical, and Microwave Dielectric Properties of Ba <sub>2</sub> Ti <sub>9</sub> O <sub>20</sub> Ceramics Synthesized by a Mixed Oxide Route. ACS Omega, 2022, 7, 25573-25579.	3.5	5
65	Futuristic Humanoid Robots: An Overview. , 2006, , .		4
66	Study on Microstructure Characterisation of Three Different Surface Coating Techniques on 6082-T6 Aluminum Alloy. Metals and Materials International, 2021, 27, 4002-4013.	3.4	4
67	Finite Element Analysis of Nylon Based 3D Printed Autonomous Underwater Vehicle Propeller. Materials Research, 2020, 23, .	1.3	4
68	Nexus of Water Footprint with Energy and GDP of Saudi Arabia and Solution for Sustainable Water Usage. Lecture Notes in Civil Engineering, 2020, , 43-57.	0.4	4
69	A comprehensive analysis to assess the impact of nano MoS <sub>2</sub> on the wear characteristic of Al-TiB <sub>2</sub> -Gr composite. Materials Research Express, 2022, 9, 016525.	1.6	4
70	Hydrothermal Extraction of Amorphous Silica from Locally Available Slate. ACS Omega, 2022, 7, 6113-6120.	3.5	4
71	Novel Link Establishment Communication Scheme against Selfish Attack Using Node Reward with Trust Level Evaluation Algorithm in MANET. Wireless Communications and Mobile Computing, 2022, 2022, 1-9.	1.2	4
72	Effect of pressure on ageing response of (SiCâ€+â€Al <sub>2</sub> O <sub>3</sub> )/6063 composites. Journal of Materials Research and Technology, 2020, 9, 11834-11848.	5.8	3

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73	Optimum Aging Parameters of 6063/Al <sub>2</sub> O <sub>3</sub> p-SiCp Hybrid Composites. Metal Science and Heat Treatment, 2020, 61, 750-755.	0.6	3
74	Microstructural characterization of different metal matrix composite claddings reinforced by TiC through YAG laser cladding. Materials Research Express, 2020, 7, 066407.	1.6	3
75	Implementation of Whale Optimization for Budding Healthiness of Fishes with Preprocessing Approach. Journal of Healthcare Engineering, 2022, 2022, 1-7.	1.9	3
76	Wireless Sensor Data Acquisition and Control Monitoring Model for Internet of Things Applications. Scientific Programming, 2022, 2022, 1-9.	0.7	3
77	An Empirical Analysis of Heat Expulsion and Pressure Drop Attribute in Helical Coil Tube Using Nanomaterials. Journal of Nanomaterials, 2022, 2022, 1-8.	2.7	3
78	Kharif Crops Selection for Sustainable Farming Practices in the Rajasthan-India Using Multiple Attribute-Based Decision-Making. Agronomy, 2020, 10, 536.	3.0	2
79	Bi <sub>2</sub> WO <sub>6</sub> nanoflakes incorporated carbon nanofibers to control biological and chemical pollutants: bifunctional application. Chemical Engineering Communications, 2022, 209, 844-851.	2.6	2
80	Numerical Study of Joule Heating Effects on Microfluidics Device Reliability in Electrode Based Devices. Materials, 2021, 14, 5819.	2.9	2
81	EVALUATION OF MASS TRANSFER EVAPOTRANSPIRATION MODELS UNDER SEMIARID CONDITIONS USING MCDM APPROACH. Applied Ecology and Environmental Research, 2020, 18, 6355-6375.	0.5	2
82	Comparison of 3D Printed Underwater Propeller Using Polymers and Conventionally Developed AA6061. Journal of Materials Engineering and Performance, 2022, 31, 5149-5158.	2.5	2
83	Synthesis and Characterization of High Surface Area Transparent SiOC Aerogels from Hybrid Silicon Alkoxide: A Comparison between Ambient Pressure and Supercritical Drying. Materials, 2022, 15, 1277.	2.9	2
84	Effects of Vacuum and Air Annealing on Structural, Morphological, Optical, and Electrical Properties of Multilayer CdZnS Thin Films for Photovoltaic and Optoelectronic Applications. ACS Omega, 2022, 7, 12937-12946.	3.5	2
85	Optimization of Single $\hat{\pm}$ -Phase for Promoting Ferromagnetic Properties of 44Fe $\hat{\pm}$ 28Cr $\hat{\pm}$ 22Co $\hat{\pm}$ 3Mo $\hat{\pm}$ 1Ti $\hat{\pm}$ 2V Permanent Magnet with Varying Co Concentration for Energy Storage.2.9 Materials, 2022, 15, 2344.		2
86	Futuristic Humanoid Robots: An Overview. , 2006, , .		1
87	Tensile fracture characteristics of forged and aged Mg enriched-2218 alloy based hybrid metal matrix composites. Materials Express, 2018, 8, 531-538.	0.5	1
88	Effect of Overheating and Incorrect Material Selection on Power Plant Superheater Tube. Science of Advanced Materials, 2021, 13, 407-416.	0.7	1
89	INVESTIGATING THE ADVERSE IMPACTS OF RURAL ROADS USING A FUZZY MULTICRITERIA APPROACH. Journal of Civil Engineering and Management, 2021, 27, 441-453.	3.5	1
90	Forensic Studies on Spent Catalytic Converters to Examine the Effect of Diesel and B100 Pongamia Biodiesel on Emissions. Sustainability, 2021, 13, 10729.	3.2	1

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91	A study on the severity and prevention measures of COVID-19 among dental professionals in clinical practice management. <i>Work</i> , 2021, 70, 387-393.	1.1	1
92	Electrical and Optical Properties of Indium and Lead Co-Doped Cd <sub>0.9</sub> Zn <sub>0.1</sub> Te. <i>Materials</i> , 2021, 14, 5825.	2.9	1
93	Structural Applications of Smart Materials in Construction Engineering Using Robotics. , 2006, , .		1
94	Sequestration of Anionic and Cationic Dyes through Thermally Activated Slate and Their Kinetics and Thermodynamic Characteristics. <i>ACS Omega</i> , 2022, 7, 12212-12221.	3.5	1
95	Fundamentals of polymer nanocomposites. , 2022, , 3-27.		1
96	Structural Evaluation, Optical, and Dielectric Properties of Ba-Doped Ca <sub>4</sub> Ti <sub>3</sub> O <sub>10</sub> -Sintered Ceramics. <i>Journal of Superconductivity and Novel Magnetism</i> , 0, , .	1.8	1
97	Scrutiny of Solar Water Heating System Employing Supercritical Fluid. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-9.	1.1	1
98	Structural Applications of Smart Materials in Construction Engineering Using Robotics. , 2006, , .		0
99	Application of Taguchi technique to reduce positional error in two degree of freedom rotary-rotary planar robotic arm. , 2007, , .		0
100	Strengthening of Metal Matrix Composites. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 71-79.	0.4	0
101	Mitigation of Carbon Footprint of an Airport in the Kingdom of Saudi Arabia. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 21-32.	0.4	0
102	Growth and Study of Multilayer Cd <sub>1-x</sub> Mg <sub>x</sub> O Thin Films Deposited by Thermal Evaporation. <i>Journal of the Physical Society of Japan</i> , 2022, 91, .	1.6	0
103	Optimal selection of agricultural crops for sustainable farming in nutrient-rich Wadi areas of Saudi Arabia using MCDM. <i>Journal of Engineering Research</i> , 2021, 9, .	0.7	0