

# 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	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
2	Bi <sub>2</sub> WO <sub>6</sub> nanoflakes incorporated carbon nanofibers to control biological and chemical pollutants: bifunctional application. <i>Chemical Engineering Communications</i> , 2022, 209, 844-851.	2.6	2
3	Nanobioremediation: A sustainable approach towards the degradation of sodium dodecyl sulfate in the environment and simulated conditions. <i>Journal of Basic Microbiology</i> , 2022, 62, 348-360.	3.3	15
4	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
5	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. <i>ACS Omega</i> , 2022, 7, 4667-4676.	3.5	15
6	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. <i>Materials Research Express</i> , 2022, 9, 016525.	1.6	4
7	Machine Learning-Based Secure Data Acquisition for Fake Accounts Detection in Future Mobile Communication Networks. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-10.	1.2	20
8	Recent Advances in Synthesis and Degradation of Lignin and Lignin Nanoparticles and Their Emerging Applications in Nanotechnology. <i>Materials</i> , 2022, 15, 953.	2.9	39
9	Comparison of 3D Printed Underwater Propeller Using Polymers and Conventionally Developed AA6061. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 5149-5158.	2.5	2
10	Implementation of Whale Optimization for Budding Healthiness of Fishes with Preprocessing Approach. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-7.	1.9	3
11	Hydrothermal Extraction of Amorphous Silica from Locally Available Slate. <i>ACS Omega</i> , 2022, 7, 6113-6120.	3.5	4
12	Synthesis and Characterization of High Surface Area Transparent SiOC Aerogels from Hybrid Silicon Alkoxide: A Comparison between Ambient Pressure and Supercritical Drying. <i>Materials</i> , 2022, 15, 1277.	2.9	2
13	Effect of Vinasse Recycling on Effluent Reduction from Distilleries: Case of Metehara Distillery, Ethiopia. <i>Processes</i> , 2022, 10, 7.	2.8	7
14	Recent Trends in Fascinating Applications of Nanotechnology in Allied Health Sciences. <i>Crystals</i> , 2022, 12, 39.	2.2	33
15	IOT Based Smart Wastewater Treatment Model for Industry 4.0 Using Artificial Intelligence. <i>Scientific Programming</i> , 2022, 2022, 1-11.	0.7	5
16	Wireless Sensor Data Acquisition and Control Monitoring Model for Internet of Things Applications. <i>Scientific Programming</i> , 2022, 2022, 1-9.	0.7	3
17	Nanomaterials: A Promising Therapeutic Approach for Cardiovascular Diseases. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-25.	2.7	24
18	Neuropharmacological and Antidiabetic Potential of <i>Lannea coromandelica</i> (Houtt.) Merr. Leaves Extract: An Experimental Analysis. <i>Evidence-based Complementary and Alternative Medicine</i> , 2022, 2022, 1-10.	1.2	38

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19	Experimental investigation on the flexural response of epoxy composites filled with environmental pollutant crump rubber. <i>Materials Research Express</i> , 2022, 9, 035503.	1.6	6
20	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
21	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
22	A machine learning algorithm for classification of mental tasks. <i>Computers and Electrical Engineering</i> , 2022, 99, 107785.	4.8	8
23	Effects of Vacuum and Air Annealing on Structural, Morphological, Optical, and Electrical Properties of Multilayer CdZnS Thin Films for Photovoltaic and Optoelectronic Applications. <i>ACS Omega</i> , 2022, 7, 12937-12946.	3.5	2
24	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
25	Influence of Graphene Nano Fillers and Carbon Nano Tubes on the Mechanical and Thermal Properties of Hollow Glass Microsphere Epoxy Composites. <i>Processes</i> , 2022, 10, 40.	2.8	14
26	Optimization of Single $\lambda$ -Phase for Promoting Ferromagnetic Properties of 44Fe $\epsilon$ 28Cr $\epsilon$ 22Co $\epsilon$ 3Mo $\epsilon$ 1Ti $\epsilon$ 2V Permanent Magnet with Varying Co Concentration for Energy Storage. <i>Materials</i> , 2022, 15, 2344.	2.9	2
27	Health and Environmental Risks of Incense Smoke: Mechanistic Insights and Cumulative Evidence. <i>Journal of Inflammation Research</i> , 2022, Volume 15, 2665-2693.	3.5	19
28	Quasi-Static Flexural Behavior of Epoxy-Matrix-Reinforced Crump Rubber Composites. <i>Processes</i> , 2022, 10, 956.	2.8	5
29	Novel Link Establishment Communication Scheme against Selfish Attack Using Node Reward with Trust Level Evaluation Algorithm in MANET. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-9.	1.2	4
30	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
31	An Empirical Analysis of Heat Expulsion and Pressure Drop Attribute in Helical Coil Tube Using Nanomaterials. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-8.	2.7	3
32	Comprehensive review on polymer composites as electromagnetic interference shielding materials. <i>Polymers and Polymer Composites</i> , 2022, 30, 096739112211021.	1.9	8
33	An experimental and empirical assessment of machining damage of hybrid glass-carbon FRP composite during abrasive water jet machining. <i>Journal of Materials Research and Technology</i> , 2022, 19, 1148-1161.	5.8	15
34	Fundamentals of polymer nanocomposites. , 2022, , 3-27.		1
35	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
36	Scrutiny of Solar Water Heating System Employing Supercritical Fluid. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-9.	1.1	1

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37	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
38	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
39	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
40	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
41	Strengthening of Metal Matrix Composites. Lecture Notes in Mechanical Engineering, 2021, , 71-79.	0.4	0
42	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
43	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
44	Effect of Overheating and Incorrect Material Selection on Power Plant Superheater Tube. Science of Advanced Materials, 2021, 13, 407-416.	0.7	1
45	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
46	COVID-19 transmission, vulnerability, persistence and nanotherapy: a review. Environmental Chemistry Letters, 2021, 19, 2773-2787.	16.2	43
47	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
48	Synthesis and characterization studies of high-density polyethylene -based nanocomposites with enhanced surface energy, tribological, and electrical properties. Polymer Testing, 2021, 98, 107193.	4.8	9
49	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
50	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
51	Automation Monitoring With Sensors For Detecting Covid Using Backpropagation Algorithm. KSII Transactions on Internet and Information Systems, 2021, 15, .	0.3	7
52	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
53	Recent technologies for nutrient removal and recovery from wastewaters: A review. Chemosphere, 2021, 277, 130328.	8.2	56
54	Advances in the Methods for the Synthesis of Carbon Dots and Their Emerging Applications. Polymers, 2021, 13, 3190.	4.5	56

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55	Impact of Big Data Analysis on Nanosensors for Applied Sciences Using Neural Networks. Journal of Nanomaterials, 2021, 2021, 1-9.	2.7	36
56	Investigation on Control Burned of Bagasse Ash on the Properties of Bagasse Ash-Blended Mortars. Materials, 2021, 14, 4991.	2.9	7
57	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
58	Optimization of the Rheological Properties and Tribological Performance of SAE 5w-30 Base Oil with Added MWCNTs. Lubricants, 2021, 9, 94.	2.9	14
59	Seaweed-Based Molecules and Their Potential Biological Activities: An Eco-Sustainable Cosmetics. Molecules, 2021, 26, 5313.	3.8	49
60	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
61	Extraction of Value-Added Minerals from Various Agricultural, Industrial and Domestic Wastes. Materials, 2021, 14, 6333.	2.9	17
62	A Short Review on the Utilization of Incense Sticks Ash as an Emerging and Overlooked Material for the Synthesis of Zeolites. Crystals, 2021, 11, 1255.	2.2	13
63	A study on the severity and prevention measures of COVID-19 among dental professionals in clinical practice management. Work, 2021, 70, 387-393.	1.1	1
64	Numerical Study of Joule Heating Effects on Microfluidics Device Reliability in Electrode Based Devices. Materials, 2021, 14, 5819.	2.9	2
65	Electrical and Optical Properties of Indium and Lead Co-Doped Cd <sub>0.9</sub> Zn <sub>0.1</sub> Te. Materials, 2021, 14, 5825.	2.9	1
66	Biological Synthesis of Nanocatalysts and Their Applications. Catalysts, 2021, 11, 1494.	3.5	54
67	Evolution of Temperature Field around Underground Power Cable for Static and Cyclic Heating. Energies, 2021, 14, 8191.	3.1	8
68	Optimal selection of agricultural crops for sustainable farming in nutrient-rich Wadi areas of Saudi Arabia using MCDM. Journal of Engineering Research, 2021, 9, .	0.7	0
69	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
70	Wear resistance of maraging steel developed by direct metal laser sintering. Materials Express, 2020, 10, 1079-1090.	0.5	13
71	Review of Online and Soft Computing Maximum Power Point Tracking Techniques under Non-Uniform Solar Irradiation Conditions. Energies, 2020, 13, 3256.	3.1	36
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	Simulation Guided Microfluidic Design for Multitarget Separation Using Dielectrophoretic Principle. Biochip Journal, 2020, 14, 390-404.	4.9	13
74	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
75	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
76	Microstructural characterization of different metal matrix composite claddings reinforced by TiC through YAG laser cladding. Materials Research Express, 2020, 7, 066407.	1.6	3
77	Effect of Fluoride Concentration in Drinking Water on Dental Fluorosis in Southwest Saudi Arabia. International Journal of Environmental Research and Public Health, 2020, 17, 3914.	2.6	10
78	Investigation of MPPT Techniques Under Uniform and Non-Uniform Solar Irradiation Conditionâ€“A Retrospection. IEEE Access, 2020, 8, 127368-127392.	4.2	146
79	Kharif Crops Selection for Sustainable Farming Practices in the Rajasthan-India Using Multiple Attribute-Based Decision-Making. Agronomy, 2020, 10, 536.	3.0	2
80	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
81	Finite Element Analysis of Nylon Based 3D Printed Autonomous Underwater Vehicle Propeller. Materials Research, 2020, 23, .	1.3	4
82	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
83	EVALUATION OF MASS TRANSFER EVAPOTRANSPIRATION MODELS UNDER SEMIARID CONDITIONS USING MCDM APPROACH. Applied Ecology and Environmental Research, 2020, 18, 6355-6375.	0.5	2
84	Mitigation of Carbon Footprint of an Airport in the Kingdom of Saudi Arabia. Lecture Notes in Mechanical Engineering, 2020, , 21-32.	0.4	0
85	Analysis of digital light synthesis based flexible and rigid polyurethane for applications in automobile bumpers. Materials Express, 2019, 9, 839-850.	0.5	8
86	GREENHOUSE GAS EMISSIONS DUE TO THE CONSTRUCTION OF RESIDENTIAL BUILDINGS IN MORADABAD, INDIA. Applied Ecology and Environmental Research, 2019, 17, .	0.5	10
87	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
88	Tribological characterization of stir cast 2218 alloy-5%-alumina-titania hybrid microcomposites developed by liquid forging. Materials Express, 2018, 8, 475-488.	0.5	7
89	Investigations of the Tribological Performance of A390 Alloy Hybrid Aluminum Matrix Composite. Materials, 2018, 11, 2524.	2.9	10
90	Experimental Studies on Corrosion Behavior of Ceramic Surface Coating using Different Deposition Techniques on 6082-T6 Aluminum Alloy. Processes, 2018, 6, 240.	2.8	11

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91	Tensile fracture characteristics of forged and aged Mg enriched-2218 alloy based hybrid metal matrix composites. <i>Materials Express</i> , 2018, 8, 531-538.	0.5	1
92	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
93	A Review of Recent Patents on Solar Air Heaters. <i>Recent Patents on Engineering</i> , 2015, 9, 2-20.	0.4	10
94	Design and thermal performance evaluation of a novel solar air heater. <i>Renewable Energy</i> , 2015, 77, 501-511.	8.9	75
95	Design and Performance Analysis of a Solar Air Heater With High Heat Storage. <i>Distributed Generation and Alternative Energy Journal</i> , 2014, 29, 35-55.	0.8	20
96	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. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1246-1254.	2.2	14
97	Application of Taguchi technique to reduce positional error in two degree of freedom rotary-rotary planar robotic arm. , 2007, , .		0
98	Futuristic Humanoid Robots: An Overview. , 2006, , .		1
99	Structural Applications of Smart Materials in Construction Engineering Using Robotics. , 2006, , .		0
100	Futuristic Humanoid Robots: An Overview. , 2006, , .		4
101	Structural Applications of Smart Materials in Construction Engineering Using Robotics. , 2006, , .		1
102	Tribological evaluation of date seed oil and castor oil blends with halloysite nanotube additives as environment friendly bio-lubricants. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	13
103	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