Vineet Veer Tyagi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Review on thermal energy storage with phase change materials and applications. Renewable and Sustainable Energy Reviews, 2009, 13, 318-345.	8.2	4,318
2	Developments in organic solid–liquid phase change materials and their applications in thermal energy storage. Energy Conversion and Management, 2015, 95, 193-228.	4.4	597
3	Novel approaches and recent developments on potential applications of phase change materials in solar energy. Renewable and Sustainable Energy Reviews, 2018, 82, 281-323.	8.2	321
4	Thermal properties and heat storage analysis of palmitic acid-TiO 2 composite as nano-enhanced organic phase change material (NEOPCM). Applied Thermal Engineering, 2016, 99, 1254-1262.	3.0	194
5	Two side serpentine flow based photovoltaic-thermal-phase change materials (PVT-PCM) system: Energy, exergy and economic analysis. Renewable Energy, 2019, 136, 1320-1336.	4.3	166
6	A comprehensive review on development of eutectic organic phase change materials and their composites for low and medium range thermal energy storage applications. Solar Energy Materials and Solar Cells, 2021, 223, 110955.	3.0	152
7	A comprehensive review on phase change materials for heat storage applications: Development, characterization, thermal and chemical stability. Solar Energy Materials and Solar Cells, 2022, 234, 111392.	3.0	98
8	Thermal performance of phase change material integrated heat pipe evacuated tube solar collector system: An experimental assessment. Energy Conversion and Management, 2020, 203, 112205.	4.4	96
9	A novel polyaniline (PANI)/ paraffin wax nano composite phase change material: Superior transition heat storage capacity, thermal conductivity and thermal reliability. Solar Energy, 2020, 204, 448-458.	2.9	95
10	Concentrated photovoltaic thermal systems: A component-by-component view on the developments in the developments in the design, heat transfer medium and applications. Energy Conversion and Management, 2019, 186, 15-41.	4.4	86
11	Preparation, characterization, thermal energy storage properties and temperature control performance of form-stabilized sepiolite based composite phase change materials. Energy and Buildings, 2019, 188-189, 111-119.	3.1	78
12	Microalgal cultivation for value-added products: a critical enviro-economical assessment. 3 Biotech, 2017, 7, 243.	1.1	77
13	Microbial fuel cells: a sustainable solution for bioelectricity generation and wastewater treatment. Biofuels, 2019, 10, 11-31.	1.4	77
14	Experimental performance evaluation of a novel designed phase change material integrated manifold heat pipe evacuated tube solar collector system. Energy Conversion and Management, 2019, 198, 111896.	4.4	68
15	Long-term thermal and chemical reliability study of different organic phase change materials for thermal energy storage applications. Journal of Thermal Analysis and Calorimetry, 2016, 124, 1357-1366.	2.0	67
16	Phase change materials and nano-enhanced phase change materials for thermal energy storage in photovoltaic thermal systems: A futuristic approach and its technical challenges. Renewable and Sustainable Energy Reviews, 2020, 133, 110341.	8.2	67
17	A critical review on factors influencing fermentative hydrogen production. Frontiers in Bioscience - Landmark, 2017, 22, 1195-1220.	3.0	45
18	Capric-stearic acid mixture impregnated carbonized waste sugar beet pulp as leak-resistive composite phase change material with effective thermal conductivity and thermal energy storage performance. Energy, 2022, 247, 123501.	4.5	44

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19	Thermal conductivity, reliability, and stability assessment of phase change material (PCM) doped with functionalized multi-wall carbon nanotubes (FMWCNTs). Journal of Energy Storage, 2022, 50, 104676.	3.9	40
20	Phase change materials integrated solar desalination system: An innovative approach for sustainable and clean water production and storage. Renewable and Sustainable Energy Reviews, 2022, 165, 112611.	8.2	37
21	Thermodynamics and performance evaluation of encapsulated PCM-based energy storage systems for heating application in building. Journal of Thermal Analysis and Calorimetry, 2014, 115, 915-924.	2.0	36
22	Carbonized waste hazelnut woodâ€based shapeâ€stable composite phase change materials for thermal management implementations. International Journal of Energy Research, 2021, 45, 10271-10284.	2.2	34
23	Form‣tabilized Polyethylene Glycol/Palygorskite Composite Phase Change Material: Thermal Energy Storage Properties, Cycling Stability, and Thermal Durability. Polymer Engineering and Science, 2020, 60, 909-916.	1.5	32
24	Advancements in PV-thermal systems with and without phase change materials as a sustainable energy solution: energy, exergy and exergoeconomic (3E) analytic approach. Sustainable Energy and Fuels, 2020, 4, 4956-4987.	2.5	30
25	Nano additive enhanced salt hydrate phase change materials for thermal energy storage. International Materials Reviews, 2023, 68, 140-183.	9.4	29
26	Exergetic analysis and parametric study of multi-crystalline solar photovoltaic system at a typical climatic zone. Clean Technologies and Environmental Policy, 2013, 15, 333-343.	2.1	28
27	Development and characterization of formâ€stable porous <scp> TiO ₂ </scp> /tetradecanoic acid based <scp>composite PCM</scp> with longâ€term stability as solar thermal energy storage material. International Journal of Energy Research, 2020, 44, 10044-10057.	2.2	28
28	Recent progresses and challenges in cooling techniques of concentrated photovoltaic thermal system: A review with special treatment on phase change materials (PCMs) based cooling. Solar Energy Materials and Solar Cells, 2022, 241, 111739.	3.0	27
29	Algal-based biofuel generation through flue gas and wastewater utilization: a sustainable prospective approach. Biomass Conversion and Biorefinery, 2021, 11, 1419-1442.	2.9	26
30	Integrated approach for textile industry wastewater for efficient hydrogen production and treatment through solar PV electrolysis. International Journal of Hydrogen Energy, 2020, 45, 25768-25782.	3.8	26
31	Energy, exergy, exergoeconomic and enviroeconomic (4-E) assessment of solar water heater with/without phase change material for building and other applications: A comprehensive review. Sustainable Energy Technologies and Assessments, 2021, 45, 101139.	1.7	26
32	COVID-19 and waste management in Indian scenario: challenges and possible solutions. Environmental Science and Pollution Research, 2021, 28, 52702-52723.	2.7	25
33	Thermal and exergoeconomic analysis of a dairy food processing plant. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1365-1382.	2.0	23
34	Improved thermal energy storage behavior of polyethylene glycol-based NEOPCM containing aluminum oxide nanoparticles for solar thermal applications. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1881-1892.	2.0	22
35	Effects of Thermal Cycling Operation on Solar Thermal Energy Storage, Morphology, Chemical/Crystalline Structure, and Thermal Degradation Properties of Some Fatty Alcohols as Organic PCMs. Energy & Fuels, 2020, 34, 9011-9019.	2.5	21
36	Optimization of nutrients from wastewater using RSMfor augmentation of Chlorella pyrenoidosa with enhanced lipid productivity, FAME content, and its quality assessment using fuel quality index. Biomass Conversion and Biorefinery, 2020, 10, 495-512.	2.9	19

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37	Experimental investigation for heat and flow characteristics of solar air heater having symmetrical gaps in multiple-arc rib pattern as roughness elements. Experimental Heat Transfer, 2022, 35, 466-483.	2.3	18
38	Assessment of different pretreatment technologies for efficient bioconversion of lignocellulose to ethanol. Frontiers in Bioscience - Scholar, 2018, 10, 350-371.	0.8	17
39	Temperature dependent morphological changes on algal growth and cell surface with dairy industry wastewater: an experimental investigation. 3 Biotech, 2020, 10, 24.	1.1	17
40	Impact assessment on water quality in the polluted stretch using a cluster analysis during pre- and COVID-19 lockdown of Tawi river basin, Jammu, North India: an environment resiliency. Energy, Ecology and Environment, 2022, 7, 461-472.	1.9	17
41	Progressive Trends in Bio-Fuel Policies in India: Targets and Implementation Strategy. Biofuels, 2019, 10, 155-166.	1.4	14
42	Optimization of the renewable-energy-based micro-grid for rural electrification in northern region of India. Clean Technologies and Environmental Policy, 2020, 22, 579-590.	2.1	14
43	Utilization of Chlorella pyrenoidosa for Remediation of Common Effluent Treatment Plant Wastewater in Coupling with Co-relational Study: An Experimental Approach. Bulletin of Environmental Contamination and Toxicology, 2022, 108, 507-517.	1.3	10
44	Impact of pH on Pollutional Parameters of Textile Industry Wastewater with Use of Chlorella pyrenoidosa at Labâ€5cale: A Green Approach. Bulletin of Environmental Contamination and Toxicology, 2022, 108, 485-490.	1.3	7
45	Advancement in solar still integration with phase change materials-based TES systems and nanofluid for water and wastewater treatment applications. Journal of Thermal Analysis and Calorimetry, 2022, 147, 9181-9227.	2.0	7
46	Experimental Investigations on Thermal Properties of Copper (II) Oxide Nanoparticles Enhanced Inorganic Phase Change Materials for Solar Thermal Energy Storage Applications. , 2022, , .		7
47	Adsorptive behavior of free and immobilized Chlorella pyrenoidosa for decolorization. Biomass Conversion and Biorefinery, 2020, , 1.	2.9	6
48	Thermal Energy Storage in Phase Change Material Integrated Solar Collectors for Air Heating Application. IOP Conference Series: Materials Science and Engineering, 2021, 1127, 012006.	0.3	6
49	Energetic and exergetic assessment of two- and three-stage spray drying units for milk processing industry. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	6
50	Experimental investigation of designed solar parabolic concentrator based desalination system for textile industry wastewater treatment. Energy and Environment, 2022, 33, 870-896.	2.7	6
51	Effect of graphene and its derivatives on thermo-mechanical properties of phase change materials and its applications: a comprehensive review. Frontiers in Energy, 2022, 16, 150-186.	1.2	6
52	Metal Oxide Nanoparticle Dispersed-Polyethylene Glycol: Thermal Conductivity and Thermal Energy Storage Properties. Energy & Fuels, 2022, 36, 2821-2832.	2.5	6
53	Experiment-based thermodynamic feasibility with co-digestion of nutrient-rich biowaste materials for biogas production. 3 Biotech, 2018, 8, 34.	1.1	5
54	Thermodynamic and techno-economic analysis of heat pipe ETC water heating system for Indian composite climate. Journal of Thermal Analysis and Calorimetry, 2020, 139, 1395-1407.	2.0	5

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55	Emission reduction and fuel-saving potentials in jaggery industry via cleaner combustion. International Journal of Ambient Energy, 2022, 43, 4728-4743.	1.4	5
56	Valorization of bio-waste material: future dimensions for path towards sustainability. Environmental Sustainability, 2021, 4, 199-200.	1.4	5
57	Thermal conductivity and Thermal properties enhancement of Paraffin/ Titanium Oxide based Nano enhanced Phase change materials for Energy storage. , 2022, , .		5
58	Optimization of flocculation efficiency of Chlorella pyrenoidosa with CaCl2 using the Box-Behnken design of response surface methodology: A cost effective statistical investigation. Biomass Conversion and Biorefinery, 2024, 14, 3261-3273.	2.9	5
59	Thermal energy storage properties and labâ€scale thermal performance in cementitious plaster of composite phase change material for energy efficiency of buildings. Environmental Progress and Sustainable Energy, 2020, 39, e13455.	1.3	4
60	Comparative enviro-economic assessment and thermal optimization of two distinctly designed and experimentally validated PV/T collectors. Journal of Thermal Analysis and Calorimetry, 0, , 1.	2.0	3
61	Thermal energy storage characteristics of polyacrylic acid/dodecanol/carbon nanofiber composites as thermal conductive <scp>shapeâ€stabilized</scp> composite phase change materials. International Journal of Energy Research, 2022, 46, 20873-20885.	2.2	3
62	Kinetic assessment of aerobic composting of flower waste generated from temple in Jammu, India: a lab-scale experimental study. Environmental Sustainability, 2021, 4, 393-400.	1.4	2
63	Comparative exergoeconomic analysis of single, two and three stage spray drying systems. Journal of Thermal Analysis and Calorimetry, 2022, 147, 8947-8968.	2.0	2
64	Impact of Pollutant Load from Textile Dyeing Industry Wastewater on Biometric Growth Profile of Vigna radiata. Bulletin of Environmental Contamination and Toxicology, 2022, , 1.	1.3	2
65	Response surface methodology–based extraction optimization with application of ZrCl4 as novel quenching agent for enhancement of bio-oil yield from Jatropha curcas and Chlorella pyrenoidosa. Biomass Conversion and Biorefinery, 0, , 1.	2.9	1
66	Experimental and computational investigation of waste heat recovery from combustion device for household purposes. International Journal of Energy and Environmental Engineering, 2022, 13, 353-364.	1.3	1
67	Year round performance and parametric study of thin film solar photovoltaic system. , 2013, , .		0
68	Numerical simulation and exergetic optimization of a PV/T integrated dual expansion heat pump. Journal of Thermal Analysis and Calorimetry, 0, , 1.	2.0	0
69	Editorial: Thematic issue "Bio-based materials for biorefineries: innovative processes and conceptsâ€. Biomass Conversion and Biorefinery, 0, , 1.	2.9	0
70	Estimation of thermodynamic and enviroeconomic characteristics of khoa (milk food) production unit. Environment, Development and Sustainability, 0, , 1.	2.7	0
71	Biopolymer-Based Nanocomposites and Water Treatment: A Global Outlook. ACS Symposium Series, 0, , 25-42.	0.5	0