

Zafar Said

Adjunct Faculty

US-Pakistan Center for Advanced Studies in Energy

Email: zaffar.ks@gmail.com

Contact:

LinkedIn:



About

Dr. Zafar Said is working as Adjunct Faculty in the US-Pakistan Center for Advanced Studies in Energy. Dr. Zafar Said has a PhD in Mechanical Engg. Dr. Zafar Said has published 96 research articles & conference papers having a citation count of 6002, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Mechanical Engg	2011 - 2014
Universiti Malaya , Malaysia	
BS in Mechanical	2008 - 2011
Universiti Tenaga Nasional , Malaysia	

Experience

Adjunct Faculty	2024- Present
US-Pakistan Center for Advanced Studies in Energy	
Adjunct Faculty	2021 - 2024
US-Pakistan Center for Advanced Studies in Energy	

Research Articles

Green solvents in battery recycling: status and challenges	2024
Wenyuan Qiao Ren Zhang Yikai Wen Xinyi Wang Zheng Wang Guoqiang Tang Minghao Liu Hyokyeong Kang Zafar Said Jang-Yeon Hwang Changhui Liu	
Journal of Materials Chemistry A, Volume 12, Issue 19, Pages 11235-11265	
Impact Factor: 10.700 Quartile: 1 Citations: 16	
DOI: https://doi.org/10.1039/D3TA07905H	
Thermal analysis of a bifacial vacuum-based solar thermal collector	2024
Ali Radwan Essam M. Abo-Zahhad Ibrahim I. El-Sharkawy Dr Zafar Said Osama Abdelrehim Saim Memon Ping Cheng Ahmed Saad Soliman	
Energy , Volume 294, Article Number 130748	
Impact Factor: 9.000 Quartile: 1 Citations: 2	
DOI: https://doi.org/10.1016/j.energy.2024.130748	
Hybrid thermal management of Li-ion battery pack: An experimental study with eutectic PCM-embedded heat transfer fluid	2024
Aamir Khan Majid Ali Sana Yaqub Hassan Abdullah Khalid Rao Rumman Ullah Khan Kashif Mushtaq Hassan Nazir Zafar Said	
Journal of Energy Storage , Volume 77, Article Number 109929	
Impact Factor: 8.9 Quartile: 1 Citations: 20	
DOI: doi.org/10.1016/j.est.2023.109929	
Enhancing solar still thermal performance: The role of surface coating and thermal energy storage in repurposed soda cans	2024
Ravishankar Sathyamurthy Hafiz Muhammad Ali Zafar Said Abd Elnaby Kabeel Mahmoud S. El-Sebaey Selvakumar Gopalsamy Manikandan Nagaraj Najla Almasoud Taghrid S. Alomar	
Journal of Energy Storage , Volume:77, Article Number: 109807, Pages: 12	
Impact Factor: 9.4 Quartile: 1 Citations: 52	
DOI: 10.1016/j.est.2023.109807	
Comprehensive Performance Evaluation of New Photovoltaic/Serpentine Collectors using Response Surface Methodology: Energy, Exergy, and Environmental Perspectives	2024
Essam M. Abo-Zahhad Ahmed Amine Hachicha Ali Mohammed Radwan Zafar Said S.M.A. Rahman Salah Haridy	
Solar Energy , Volume 268, Article Number: 112258	
Impact Factor: 6.7 Quartile: 2 Citations: 10	

DOI: 10.1016/j.solener.2023.112258

Advances in thermal energy storage: Fundamentals and applications

2024

Hafiz Muhammad Ali Tauseef-ur Rehman Müslüm Arıcı Zafar Said Benjamin Duraković Hayder I. Mohammed Rajan Kumara Manish K. Rathod Ozge Buyukdagli Mohamed Teggat

Progress in Energy and Combustion Science, Volume:100, Article Number: 101109

Impact Factor: 29.5 | **Quartile:** 1 | **Citations:** 209

DOI: 10.1016/j.pecs.2023.101109

Effect of surfactants on the stability and thermophysical properties of Al₂O₃+TiO₂ hybrid nanofluids

2023

Abdul Rehman Sana Yaqub Majid Ali Hassan Nazir Nadia Shahzad Sehar Shakir Rabia Liaquat Zafar Said

Journal of Molecular Liquids, Volume 391, Part B, Article Number 123350

Impact Factor: 6.0 | **Quartile:** 1 | **Citations:** 31

DOI: <https://doi.org/10.1016/j.molliq.2023.123350>

Effect of TiO₂ nanoparticles on the thermal energy storage of HITEC salt for concentrated solar power applications

2023

Hatem Ahmad Aljaerani M. Samykano A.K. Pandey Zafar Said K. Sudhakar R. Saidur

Journal of Energy Storage, Volume 72, Part C, Article Number 108449

Impact Factor: 9.4 | **Quartile:** 1 | **Citations:** 24

DOI: doi.org/10.1016/j.est.2023.108449

TC@MF phase change microcapsules with reversibly thermochromic property for temperature response and thermoregulation

2023

Yujiao Li Aoshuang Yang Yongsheng Li Zhuoni Jiang Fangfang He Zhengguo Chen Xiaolan Li Zafar Said Nadia Shahzad Adeel Waqas Wenbin Yang

Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 677, Part A, Article Number 132333

Impact Factor: 5.2 | **Quartile:** 2 | **Citations:** 24

DOI: <https://doi.org/10.1016/j.colsurfa.2023.132333>

Review on second-generation synthetic fuel: feedstocks, potential production, deployable technologies, and challenges

2023

Shobhit Khanna Rabindra Prasada C.P. Jawahar Zafar Said

Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Volume:45, Issue:4, Page:12215-12230

Impact Factor: 2.9 | **Quartile:** 3 | **Citations:** 4

DOI: 10.1080/15567036.2023.2271433

Effect of elliptical dimples on heat transfer performance in a shell and tube heat exchanger

2023

Seyed Ali Abtahi Mehrjardi Alireza Khademi Zafar Said Svetlana Ushak Ali J. Chamkha

Heat and Mass Transfer, Volume 59, Issue 10, Pages 1781-1791

Impact Factor: 2.2 | **Quartile:** 3 | **Citations:** 26

DOI: <https://doi.org/10.1007/s00231-023-03367-7>

Analysis of thermophysical properties and performance of nanorefrigerants and nanolubricant-refrigerant mixtures in refrigeration systems

2023

Zafar Said S.M.A. Rahman Maham Aslam Sohail Bibin B S

Case Studies in Thermal Engineering, Volume 49, Article Number 103274

Impact Factor: 6.8 | **Quartile:** 1 | **Citations:** 11

DOI: <https://doi.org/10.1016/j.csite.2023.103274>

Nanotechnology-integrated phase change material and nanofluids for solar applications as a potential approach for clean energy strategies: Progress, challenges, and opportunities

2023

Zafar Said Maham Aslam Sohail Adarsh Kumar Pandey Prabhakar Sharma Adeel Waqas Wei-Hsin Chen Phuoc Quy Phong Nguyen Van Nhanh Nguyen

Nguyen Dang Khoa Pham Xuan Phuong Nguyen

Journal of Cleaner Production, Volume 416, Article Number 137736

Impact Factor: 11.1 | **Quartile:** 1 | **Citations:** 71

DOI: <https://doi.org/10.1016/j.jclepro.2023.137736>

Nanofluids-based solar collectors as sustainable energy technology towards net-zero goal: Recent advances, environmental impact, challenges, and perspectives

2023

Zafar Said Misbah Iqbal Aamir Mehmood Thanh Tuan Le Hafiz Muhammad Ali Dao Nam Cao P Phuoc Quy Phong Nguyen Nguyen Dang Khoa Pham

Chemical Engineering and Processing - Process Intensification, Volume 191, Article Number 109477

Impact Factor: 4.3 | **Quartile:** 2 | **Citations:** 35

DOI: <https://doi.org/10.1016/j.cep.2023.109477>

Numerical modeling and multi-objective optimization of direct absorption solar collectors using mono and hybrid nanofluids <i>Ahmed Amine Hachicha Zafar Said</i> <i>Journal of Cleaner Production</i> , Volume 414, Article Number 137740 Impact Factor: 11.1 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1016/j.jclepro.2023.137740	2023
Potential evaluation of integrated high temperature heat pumps: A review of recent advances <i>Khalid Hamid Uzair Sajjad Marcel Ulrich Ahrens Shuai Ren P. Ganesan Ignat Tolstorebrov Adeel Arshad Zafar Said Armin Hafner Chi Chuan Ruzhu Wang Trygve M. Eikevik</i> <i>Applied Thermal Engineering</i> , Volume 230, Part A, Article Number 120720 Impact Factor: 6.4 Quartile: 1 Citations: 66 DOI: https://doi.org/10.1016/j.applthermaleng.2023.120720	2023
Improvement in stability and thermophysical properties of CNC-MXene nanolubricant for Tribology application <i>Mohd Kamal Kamarulzaman Sakinah Hisham Kumaran Kadirgama Devarajan Ramasamy M. Samykano Zafar Said A.K. Pandey</i> <i>Journal of Molecular Liquids</i> , Volume 381, Article Number 121695 Impact Factor: 6.0 Quartile: 1 Citations: 19 DOI: https://doi.org/10.1016/j.molliq.2023.121695	2023
Intelligent approaches for sustainable management and valorisation of food waste <i>Zafar Said Prabhakar Sharma Quach Thi Bich Nhuong Bhaskor J. Bora Eric Lichtfouse Haris M. Khalid Rafael Luque Xuan Phuong Nguyen Anh Tuan Hoang</i> <i>Bioresource Technology</i> , Volume 377, Article Number 128952 Impact Factor: 11.4 Quartile: 1 Citations: 84 DOI: https://doi.org/10.1016/j.biortech.2023.128952	2023
New thermal management technique for PV module using Mist/PCM/Husk: An experimental study <i>Zafar Said Fahad Faraz Ahmad Ali Mohammed Radwan Ahmed Amine Hachicha</i> <i>Journal of Cleaner Production</i> , Volume 401, Article Number 136798 Impact Factor: 11.1 Quartile: 1 Citations: 41 DOI: https://doi.org/10.1016/j.jclepro.2023.136798	2023
Sonication impact on thermal conductivity of f-MWCNT nanofluids using XGBoost and Gaussian process regression <i>Zafar Said Prabhakar Sharma Bhaskor J. Bora A.K. Pandey</i> <i>Journal of the Taiwan Institute of Chemical Engineers</i> , Volume 145, Article Number 104818 Impact Factor: 5.7 Quartile: 1 Citations: 51 DOI: https://doi.org/10.1016/j.jtice.2023.104818	2023
Heat Transfer Improvement in a Thermal Energy Storage System using Auxiliary Fluid Instead of Nano-PCM in an Inclined Enclosure: A Comparative Study <i>Alireza Khademi Seyed Ali Abtahi Mehrjardi Zafar Said Ali J. Chamkha</i> <i>Journal of Applied and Computational Mechanics</i> , Volume 9, Issue 2, Pages 475-486 Impact Factor: 0 Citations: 38 DOI: 10.22055/jacm.2022.41867.3829	2023
Copper oxide/polyaniline nanocomposites-blended in palm oil hybrid nanofluid: Thermophysical behavior evaluation <i>A.G.N. Sofiah M. Samykano K. Sudhakar Zafar Said A.K. Pandey</i> <i>Journal of Molecular Liquids</i> , Volume 375, Article Number 121303 Impact Factor: 6.0 Quartile: 1 Citations: 21 DOI: https://doi.org/10.1016/j.molliq.2023.121303	2023
Experimental and feasibility study on nano blended waste plastic oil based diesel engine at various injection pressure: A value addition for disposed plastic food containers <i>S. Padmanaba Sundar P. Vijayabalan Ravishankar Sathyamurthy Zafar Said Amrit Kumar Thakur</i> <i>Fuel Processing Technology</i> , Volume 242, Article Number 107627 Impact Factor: 7.5 Quartile: 1 Citations: 25 DOI: 10.1016/j.fuproc.2022.107627	2023
Energy saving potential analysis applying factory scale energy audit – A case study of food production <i>Derar Al Momani Yousef Al Turk Mohammed I. Abuashour Tha'er O. Sweidan Haris M. Khalid S.M. Muyeen Zafar Said M. Hasanuzzaman</i> <i>Heliyon</i> , Volume 9, Issue 3, Article Number e14216 Impact Factor: 4.0 Quartile: 2 Citations: 17	2023

DOI: <https://doi.org/10.1016/j.heliyon.2023.e14216>

Recent technical approaches for improving energy efficiency and sustainability of PV and PV-T systems: A comprehensive review 2023

Amine Allouhi Shafiqur Rehman Mahmut Sami Buker Zafar Said

Sustainable Energy Technologies and Assessments, Volume 56, Article Number 103026

Impact Factor: 8.0 | **Quartile:** 1 | **Citations:** 107

DOI: <https://doi.org/10.1016/j.seta.2023.103026>

Application of machine learning and Box-Behnken design in optimizing engine characteristics operated with a dual-fuel mode of algal biodiesel and waste-derived biogas 2023

Prabhakar Sharma Bibhuti B. Sahoo Zafar Said H. Hadiyanto Xuan Phuong Nguyen Sandro Nižetić Zuohua Huang Anh Tuan Hoang Changhe Li

International Journal of Hydrogen Energy, Volume 48, Issue 18, Pages 6738-6760

Impact Factor: 7.2 | **Quartile:** 1 | **Citations:** 95

DOI: <https://doi.org/10.1016/j.ijhydene.2022.04.152>

Modeling-optimization of performance and emission characteristics of dual-fuel engine powered with pilot diesel and agricultural-food waste-derived biogas 2023

Zafar Said Prabhakar Sharma Bhaskor J. Bora Van Nhanh Nguyen Thi Anh Em Bui Dinh Tuyen Nguyen Xuan Thanh Dinh Xuan Phuong Nguyen

International Journal of Hydrogen Energy, Volume 48, Issue 18, Pages 6761-6777

Impact Factor: 7.2 | **Quartile:** 1 | **Citations:** 52

DOI: <https://doi.org/10.1016/j.ijhydene.2022.07.150>

Experimental study on sodium acetate trihydrate/glycerol deep eutectic solvent nanofluids for thermal energy storage 2023

Wenjie Sun Qingyi Liu Jiateng Zhao Hafiz Muhammad Ali Zafar Said Changhui Liu

Journal of Molecular Liquids, Volume 372, Article Number 121164

Impact Factor: 6.0 | **Quartile:** 1 | **Citations:** 30

DOI: <https://doi.org/10.1016/j.molliq.2022.121164>

Hydrogen Production by Water Splitting with Support of Metal and Carbon-Based Photocatalysts 2023

Anh Tuan Hoang Ashok Pandet Wei-Hsin Chen Shams Forruque Ahmed Sandro Nižetić Kim Hoong Ng Zafar Said Xuan Quang Duong Ümit Ağbulut Hady Hadiyanto Xuan Phuong Nguyen

ACS Sustainable Chemistry & Engineering, Volume:11, Issue:4, Page:1221-1252

Impact Factor: 8.4 | **Quartile:** 1 | **Citations:** 88

DOI: <https://doi.org/10.1021/acssuschemeng.2c05226>

High performance blended nanofluid based on gold nanorods chain for harvesting solar radiation 2023

Sajid Farooq Diego Rativa Zafar Said Renato E. de Araujo

Applied Thermal Engineering, Volume 218, Article Number 119212

Impact Factor: 6.465 | **Quartile:** 1 | **Citations:** 26

DOI: <https://doi.org/10.1016/j.applthermaleng.2022.119212>

Thermal analysis of hybrid photovoltaic-thermal water collector modified with latent heat thermal energy storage and two side serpentine absorber design 2022

V. Tirupati Rao Y. Raja Sekhar A.K. Pandey Zafar Said D.M. Reddy Prasad M.S. Hossain Jeyraj Selvaraj

Journal of Energy Storage, Volume 56, Part A, Article Number 105968

Impact Factor: 8.907 | **Quartile:** 1 | **Citations:** 22

DOI: <https://doi.org/10.1016/j.est.2022.105968>

Improving the thermal efficiency of a solar flat plate collector using MWCNT-Fe3O4/water hybrid nanofluids and ensemble machine learning 2022

Zafar Said Prabhakar Sharma L. Syam Sundar Changhe Li Duy Cuong Tran Nguyen Dang Khoa Pham Xuan Phuong Nguyen

Case Studies in Thermal Engineering, Volume 40, Article Number 102448

Impact Factor: 6.268 | **Quartile:** 1 | **Citations:** 74

DOI: <https://doi.org/10.1016/j.csite.2022.102448>

A Comprehensive Review on Current Performance, Challenges and Progress in Thin-Film Solar Cells 2022

Santhosh Sivaraj Rajasekar Rathansamy Gobinath Velu Kaliyannan Hitesh Panchal Ali Jawad Alrubaie Mustafa Musa Jaber Zafar Said Saim Memon

Energies, Volume 15, Issue 22, Article Number 8888

Impact Factor: 3.252 | **Quartile:** 3 | **Citations:** 36

DOI: <https://doi.org/10.3390/en15228688>

Production of biochar from crop residues and its application for anaerobic digestion 2022

Anh Tuan Hoang Jillian L. Goldfarb Aoife M. Foley Eric Lichtfouse Manish Kumar Leilei Xiao Shams Forruque Ahmed Zafar Said Rafael Luque Van Ga Bui Xuan Phuong Nguyen

Hydrothermal carbonization of food waste as sustainable energy conversion path

2022

Huu Son Le Wei-Hsin Chen Shams Forruque Ahmed Zafar Said Nazifa Rafa Anh Tuan Le Ümit Ağbulut Ibharm Veza Xuan Phuong Nguyen Xuan Quang

Duong Zuohua Huang Anh Tuan Hoang

Bioresource Technology , Volume 363, Article Number 127958

Optimization of combustion, performance, and emission characteristics of a dual-fuel diesel engine powered with microalgae-based biodiesel/diesel blends and oxyhydrogen

2022

Zafar Said Duc Trong Nguyen Le Prabhakar Sharma Viet Ha Dang Huu Son Le Dinh Tuyen Nguyen Thi Anh Em Bui Van Giao Nguyen

Fuel , Volume 326, Article Number 124987

Understanding behaviors of compression ignition engine running on metal nanoparticle additives-included fuels: A control comparison between biodiesel and diesel fuel

2022

Anh Tuan Hoang Minh Xuan Le Sandro Nižetić Zuohua Huang Ümit Ağbulut Ibharm Veza Zafar Said Anh Tuan Le Viet Dung Tran Xuan Phuong Nguyen

Fuel , Volume 326, Article Number 124981

Using Bayesian optimization and ensemble boosted regression trees for optimizing thermal performance of solar flat plate collector under thermosyphon condition employing MWCNT-Fe3O4/water hybrid nanofluids

2022

Zafar Said Prabhakar Sharma L. Syam Sundar Van Giao Nguyen Viet Dung Tran Van Vang Le

Sustainable Energy Technologies and Assessments, Volume 53, Part C, Article Number 102708

Hybrid nanofluid turbulent transportation through a tube with an innovative twisted tape combined with helical fins heat sink

2022

M. Jafaryar Zafar Said M. Sheikholeslami

Sustainable Energy Technologies and Assessments, Volume 53, Part C, Article Number 102702

Improving combustion and emission characteristics of a biogas/biodiesel-powered dual-fuel diesel engine through trade-off analysis of operation parameters using response surface methodology

2022

Bhaskor J Bora Thanh Dai Tran Krushna Prasad Shadangi Prabhakar Sharma Zafar Said Pankaj Kalita Abdulrajak Buradi Van Nhanh Nguyen Hakeem Niyas

Minh Tuan Pham Chau Thanh Nguyen Le Viet Dung Tran Xuan Phuong Nguyen

Sustainable Energy Technologies and Assessments, Volume 53, Part A, Article Number 102455

Thermal performance assessment of an ejector air-conditioning system with parabolic trough collector using R718 as a refrigerant: A case study in Algerian desert region

2022

Mokhtar Ghodbane Zafar Said Omar Ketfi Boussad Boumeddane Anh Tuan Hoang Mohsen Sheikholeslami M El Haj Assad Mohammad Hossein Ahmadi Var

Nhanh Nguyen Viet Dung Tran Thanh Hai Truong

Sustainable Energy Technologies and Assessments, Volume 53, Part B, Article Number 102513

Copper (II) oxide nanoparticles as additives in RBD palm olein: Experimental analysis and mathematical modelling

2022

A.G.N. Sofiah M. Samykano S. Shahabuddin A.K. Pandey K. Kadirgama Zafar Said K. Sudhakar

Journal of Molecular Liquids, Volume 363, Article Number 119892

Thermophysical study of glycerol/choline chloride deep eutectic solvent based nanofluids

2022

Changhui Liu Wenjie Sun Yixuan Huo Jiateng Zhao Zafar Said

Thermal management system for high, dense, and compact power electronics

2022

Essam M. Abo-Zahhad Ahmed Amine Hachicha Zafar Said Chaouki Ghenai Shinichi Ookawara

Energy Conversion and Management, Volume 268, Article Number 115975

Impact Factor: 10.4 | Quartile: 1 | Citations: 25

DOI: <https://doi.org/10.1016/j.enconman.2022.115975>

Multi-attribute optimization of sustainable aviation fuel production-process from microalgae source

2022

Zafar Said Tuan Hai Nguyen Prabhakar Sharma Changhe Li Hafiz Muhammad Ali Van Nhanh Nguyen Van Viet Pham Shams Forruque Ahmed Dong Nguyer Van Thanh Hai Truong

Fuel, Volume 324, Part C, Article Number 124759

Impact Factor: 8.035 | Quartile: 1 | Citations: 59

DOI: <https://doi.org/10.1016/j.fuel.2022.124759>

Production of HMF and DMF biofuel from carbohydrates through catalytic pathways as a sustainable strategy for the future energy sector

2022

Huu Son Le Zafar Said Minh Tuan Pham Tri Hieu Le Ibhram Veza Van Nhanh Nguyen Balakrishnan Deepanraj Lan Huong Nguyen

Fuel, Volume 324, Part A, Article Number 124474

Impact Factor: 6.609 | Quartile: 1 | Citations: 53

DOI: <https://doi.org/10.1016/j.fuel.2022.124474>

A general algorithm for the optimization of photovoltaic modules layout on irregular rooftop shapes

2022

A. Barbón M. Ghodbane L. Bayón Zafar Said

Journal of Cleaner Production, Volume 365, Article Number 132774

Impact Factor: 11.1 | Quartile: 1 | Citations: 26

DOI: <https://doi.org/10.1016/j.jclepro.2022.132774>

Enhancing the Melting Process of Shell-and-Tube PCM Thermal Energy Storage Unit Using Modified Tube Design

2022

Aissa Abderrahmane Naef A. A. Qasem Abed Mourad Mohammad Al-Khaleel Zafar Said Kamel Guedri Obai Younis Riadh Marzouki

Nanomaterials, Volume 12, Issue 17, Article Number 3078

Impact Factor: 5.3 | Quartile: 1 | Citations: 22

DOI: <https://doi.org/10.3390/nano12173078>

Effect of a rotating cylinder on convective flow, heat and entropy production of a 3D wavy enclosure filled by a phase change material

2022

Naef A.A. Qasem Aissa Abderrahmane Sameh Ahmed Obai Younis Kamel Guedri Zafar Said Abed Mourad

Applied Thermal Engineering, Volume 214, Article Number 118818

Impact Factor: 6.4 | Quartile: 1 | Citations: 45

DOI: <https://doi.org/10.1016/j.applthermaleng.2022.118818>

Advances in the improvement of thermal-conductivity of phase change material-based lithium-ion battery thermal management systems: An updated review

2022

Abhijeet Mitra Rajan Kumar Dwesh Kumar Singh Zafar Said

Journal of Energy Storage, Volume 53, Article Number 105195

Impact Factor: 8.907 | Quartile: 1 | Citations: 66

DOI: <https://doi.org/10.1016/j.est.2022.105195>

Optimization of variable compression ratio diesel engine fueled with Zinc oxide nanoparticles and biodiesel emulsion using response surface methodology

2022

R. Hussain Vali Anh Tuan Hoang M. Marouf Wani Harveer Singh Pali Dhinesh Balasubramanian Müslüm Arıcı Zafar Said Xuan Phuong Nguyen

Fuel, Volume 323, Article Number 124290

Impact Factor: 6.609 | Quartile: 1 | Citations: 73

DOI: <https://doi.org/10.1016/j.fuel.2022.124290>

Fabrication of shape-stabilized phase change materials based on waste plastics for energy storage

2022

Yaodong Zhang Jiapeng Wang Xulong Yang Hafiz Muhammad Ali Zafar Said Changhui Liu

Journal of Energy Storage, Volume 52, Part B, Article Number 104973

Impact Factor: 8.907 | Quartile: 1 | Citations: 45

DOI: <https://doi.org/10.1016/j.est.2022.104973>

Experimental analysis of novel ionic liquid-MXene hybrid nanofluid's energy storage properties: Model-prediction using modern ensemble machine learning methods <i>Zafar Said Prabhakar Sharma Navid Aslfattahi Mokhtar Ghodbane</i> <i>Journal of Energy Storage</i> , Volume 52, Part B, Article Number 104858 Impact Factor: 8.907 Quartile: 1 Citations: 69 DOI: https://doi.org/10.1016/j.est.2022.104858	2022
Up-to-date literature review on Solar PV systems: Technology progress, market status and R&D <i>Amine Allouhi Shafiqur Rehman Mahmut Sami Buker Zafar Said</i> <i>Journal of Cleaner Production</i> , Volume 362, Article Number 132339 Impact Factor: 11.1 Quartile: 1 Citations: 193 DOI: https://doi.org/10.1016/j.jclepro.2022.132339	2022
Application of novel framework based on ensemble boosted regression trees and Gaussian process regression in modelling thermal performance of small-scale Organic Rankine Cycle (ORC) using hybrid nanofluid <i>Zafar Said Prabhakar Sharma Arun Kumar Tiwari Van Vang Le ZuoHua Huang Van Ga Bui Anh Tuan Hoang</i> <i>Journal of Cleaner Production</i> , Volume 360, Article Number 132194 Impact Factor: 11.1 Quartile: 1 Citations: 82 DOI: https://doi.org/10.1016/j.jclepro.2022.132194	2022
Two-phase simulation of the generated entropy for the nanofluid flow inside a ribbed passage for cooling of a PV cell <i>Nima Mazaheri Shoaib Khanmohammadi Mehdi Bahiraei Zafar Said</i> <i>Thermal Science and Engineering Progress</i> , Volume 33, Article Number 101353 Impact Factor: 4.560 Quartile: 1 Citations: 11 DOI: https://doi.org/10.1016/j.tsep.2022.101353	2022
Using response surface methodology approach for optimizing performance and emission parameters of diesel engine powered with ternary blend of Solketal-biodiesel-diesel <i>Prabhakar Sharma Minh Phung Le Ajay Chhillar Zafar Said Balakrishnan Deepanraj Dao Nam Cao Suhaib A. Bandh Anh Tuan Hoang</i> <i>Sustainable Energy Technologies and Assessments</i> , Volume 52, Part D, Article Number 102343 Impact Factor: 7.632 Quartile: 2 Citations: 50 DOI: https://doi.org/10.1016/j.seta.2022.102343	2022
Experimental investigations on modified thermosyphons using R134a/Al₂O₃ and comparative machine learning analysis <i>R.S. Anand C.P. Jawahar A. Brusly Solomon Shubin David Evangelos Bellos Zafar Said</i> <i>Applied Thermal Engineering</i> , Volume 212, Article Number 118554 Impact Factor: 6.4 Quartile: 1 Citations: 11 DOI: https://doi.org/10.1016/j.applthermaleng.2022.118554	2022
Performance characterization of a solar-powered shell and tube heat exchanger utilizing MWCNTs/water-based nanofluids: An experimental, numerical, and artificial intelligence approach <i>Zafar Said Shek Rahman Prabhakar Sharma Ahmed Amine Hachicha Salah Issa</i> <i>Applied Thermal Engineering</i> , Volume 212, Article Number 118633 Impact Factor: 6.4 Quartile: 1 Citations: 64 DOI: https://doi.org/10.1016/j.applthermaleng.2022.118633	2022
Impact of sonication durations on thermophysical properties, contact angle and surface tension of f-MWCNTs nanofluid for heat transfer <i>Zafar Said Maham Aslam Sohail Rashmi Walvekar Changhui Liu</i> <i>Journal of Molecular Liquids</i> , Volume 358, Article Number 119164 Impact Factor: 6.0 Quartile: 1 Citations: 32 DOI: https://doi.org/10.1016/j.molliq.2022.119164	2022
Recent advances on the evacuated tube solar collector scrutinizing latest innovations in thermal performance improvement involving economic and environmental analysis <i>S. Mojtaba Tabarhoseini M. Sheikholeslami Zafar Said</i> <i>Solar Energy Materials and Solar Cells</i> , Volume 241, Article Number 111733 Impact Factor: 7.267 Quartile: 1 Citations: 54 DOI: https://doi.org/10.1016/j.solmat.2022.111733	2022
Recent advances, challenges, and prospects in solar dish collectors: Designs, applications, and optimization frameworks	2022

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Experimental investigations on efficiency and instability of combustion process in a diesel engine fueled with ternary blends of hydrogen peroxide additive/biodiesel/diesel <i>Prabhakar Sharma Ajay Chhillar Zafar Said Zuohua Huang Van Nhanh Nguyen Phuoc Quy Phong Nguyen Xuan Phuong Nguyen</i> <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i>, Volume 44, Issue 3, Pages 5929-5950 Impact Factor: 2.902 Quartile: 3 Citations: 35 DOI: https://doi.org/10.1080/15567036.2022.2091692	2022
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