Zafar Said

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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 6048, 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

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: 59

DOI: 10.1016/j.est.2023.109807

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

Comprehensive Performance Evaluation of New Photovoltaic/Serpentine Collectors using Response

2024

Surface Methodology: Energy, Exergy, and Environmental Perspectives

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: 11

DOI: 10.1016/j.solener.2023.112258 2024 Advances in thermal energy storage: Fundamentals and applications Hafiz Muhammad Ali Tauseef-ur Rehman Müslüm Arıcı Zafar Said Benjamin Duraković Hayder I. Mohammed Rajan Kumara Manish K. Rathod Ozge Buyukdagli Mohamed Teggar 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 2023 applications 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 2023 TC@MF phase change microcapsules with reversibly thermochromic property for temperature response and thermoregulation Yujiao Li Aoshuang Yang Yongsheng Li Zhuoni Jiang Fangfang He Zhengguo Chen Xiaoan 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 2023 Review on second-generation synthetic fuel: feedstocks, potential production, deployable technologies, and challenges Shobhit Khanna Rabindra Prasada C.P. Jawaharb 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 2023 Analysis of thermophysical properties and performance of nanorefrigerants and nanolubricantrefrigerant mixtures in refrigeration systems 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 2023 approach for clean energy strategies: Progress, challenges, and opportunities 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

2023

Ahmed Amine Hachicha Zafar Said

Journal of Cleaner Production, Volume 414, Article Number 137740

Impact Factor: 11.1 | Quartile: 1 | Citations: 12

DOI: https://doi.org/10.1016/j.jclepro.2023.137740

Potential evaluation of integrated high temperature heat pumps: A review of recent advances

2023

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

Applied Thermal Engineering, 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

Improvement in stability and thermophysical properties of CNC-MXene nanolubricant for Tribology

2023

application

Mohd Kamal Kamarulzaman Sakinah Hisham Kumaran Kadirgama Devarajan Ramasamy M. Samykano Zafar Said A.K. Pandey

Journal of Molecular Liquids, Volume 381, Article Number 121695

Impact Factor: 6.0 | Quartile: 1 | Citations: 19
DOI: https://doi.org/10.1016/j.molliq.2023.121695

Intelligent approaches for sustainable management and valorisation of food waste

2023

Zafar Said Prabhakar Sharma Quach Thi Bich Nhuong Bhaskor J. Bora Eric Lichtfouse Haris M. Khalid Rafael Luque Xuan Phuong Nguyen Anh Tuan Hoang Bioresource Technology, Volume 377, Article Number 128952

Impact Factor: 11.4 | Quartile: 1 | Citations: 84

DOI: https://doi.org/10.1016/j.biortech.2023.128952

New thermal management technique for PV module using Mist/PCM/Husk: An experimental study

2023

Zafar Said Fahad Faraz Ahmad Ali Mohammed Radwan Ahmed Amine Hachicha

Journal of Cleaner Production, Volume 401, Article Number 136798

Impact Factor: 11.1 | Quartile: 1 | Citations: 41 DOI: https://doi.org/10.1016/j.jclepro.2023.136798

Sonication impact on thermal conductivity of f-MWCNT nanofluids using XGBoost and Gaussian process regression

2023

rocess regression

Zafar Said Prabhakar Sharma Bhaskor J. Bora A.K. Pandey

Journal of the Taiwan Institute of Chemical Engineers, Volume 145, Article Number 104818

Impact Factor: 5.7 | Quartile: 1 | Citations: 51 DOI: https://doi.org/10.1016/j.jtice.2023.104818

Heat Transfer Improvement in a Thermal Energy Storage System using Auxiliary Fluid Instead of Nano-

2023

PCM in an Inclined Enclosure: A Comparative Study

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

Journal of Applied and Computational Mechanics, Volume 9, Issue 2, Pages 475-486

Impact Factor: 0 | Citations: 38

DOI: 10.22055/jacm.2022.41867.3829

Copper oxide/polyaniline nanocomposites-blended in palm oil hybrid nanofluid: Thermophysical

2023

behavior evaluation

A.G.N. Sofiah M. Samykano K. Sudhakar Zafar Said A.K. Pandey Journal of Molecular Liquids, Volume 375, Article Number 121303

Impact Factor: 6.0 | Quartile: 1 | Citations: 21 **DOI:** https://doi.org/10.1016/j.molliq.2023.121303

Experimental and feasibility study on nano blended waste plastic oil based diesel engine at various

2023

injection pressure: A value addition for disposed plastic food containers

S. Padmanaba Sundar P. Vijayabalan Ravishankar Sathyamurthy Zafar Said Amrit Kumar Thakur

Fuel Processing Technology, Volume 242, Article Number 107627

Impact Factor: 7.5 | Quartile: 1 | Citations: 25

DOI: 10.1016/j.fuproc.2022.107627

Energy saving potential analysis applying factory scale energy audit – A case study of food production

2023

Derar Al Momani Yousef Al Turk Mohammed I. Abuashour Tha'er O. Sweidan Haris M. Khalid S.M. Muyeen Zafar Said M. Hasanuzzaman

Heliyon , Volume 9, Issue 3, Article Number e14216

Impact Factor: 4.0 | Quartile: 2 | Citations: 17

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

mot dieser and agricultural-1000 waste-derived blogas

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

Bioresource Technology, Volume 363, Article Number 127970

Impact Factor: 11.4 | Quartile: 1 | Citations: 74 **DOI:** https://doi.org/10.1016/j.biortech.2022.127970

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 Ibham Veza Xuan Phuong Nguyen Xuan Quang

Duong Zuohua Huang Anh Tuan Hoang

Bioresource Technology, Volume 363, Article Number 127958

Impact Factor: 11.4 | Quartile: 1 | Citations: 76 **DOI:** https://doi.org/10.1016/j.biortech.2022.127958

Understanding behaviors of compression ignition engine running on metal nanoparticle additives-

2022

included fuels: A control comparison between biodiesel and diesel fuel

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

Fuel, Volume 326, Article Number 124981

Impact Factor: 8.035 | Quartile: 1 | Citations: 87

DOI: https://doi.org/10.1016/j.fuel.2022.124981

Optimization of combustion, performance, and emission characteristics of a dual-fuel diesel engine

2022

powered with microalgae-based biodiesel/diesel blends and oxyhydrogen

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

Impact Factor: 8.035 | Quartile: 1 | Citations: 60

DOI: https://doi.org/10.1016/j.fuel.2022.124987

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

2022

Fe3O4/water hybrid nanofluids

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

Impact Factor: 7.632 | Quartile: 2 | Citations: 57 DOI: https://doi.org/10.1016/j.seta.2022.102708

Hybrid nanofluid turbulent transportation through a tube with an innovative twisted tape combined with

2022

helical fins heat sink

M. Jafaryar Zafar Said M. Sheikholeslami

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

Impact Factor: 7.632 | Quartile: 2 | Citations: 15 DOI: https://doi.org/10.1016/j.seta.2022.102702

Improving combustion and emission characteristics of a biogas/biodiesel-powered dual-fuel diesel

2022

engine through trade-off analysis of operation parameters using response surface methodology

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

Impact Factor: 7.632 | Quartile: 2 | Citations: 69 DOI: https://doi.org/10.1016/j.seta.2022.102455

Thermal performance assessment of an ejector air-conditioning system with parabolic trough collector

2022

using R718 as a refrigerant: A case study in Algerian desert region

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

Impact Factor: 7.632 | Quartile: 2 | Citations: 31 DOI: https://doi.org/10.1016/j.seta.2022.102513

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

Impact Factor: 6.0 | Quartile: 1 | Citations: 13

DOI: https://doi.org/10.1016/j.molliq.2022.119892

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

2022

Changhui Liu Wenjie Sun Yixuan Huo Jiateng Zhao Zafar Said

Impact Factor: 6.0 | Quartile: 1 | Citations: 29

DOI: https://doi.org/10.1016/j.molliq.2022.119862

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

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

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

2022

strategy for the future energy sector

Huu Son Le Zafar Said Minh Tuan Pham Tri Hieu Le Ibham 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

2022

Tube Design

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

2022

filled by a phase change material

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

2022

battery thermal management systems: An updated review

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

2022

biodiesel emulsion using response surface methodology

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

Up-to-date literature review on Solar PV systems: Technology progress, market status and R&D

2022

Amine Allouhi Shafiqur Rehman Mahmut Sami Buker Zafar Said

Journal of Cleaner Production, Volume 362, Article Number 132339

Impact Factor: 11.1 | Quartile: 1 | Citations: 218 DOI: https://doi.org/10.1016/j.jclepro.2022.132339

Experimental analysis of novel ionic liquid-MXene hybrid nanofluid's energy storage properties: Model- prediction using modern ensemble machine learning methods Zafar Said Prabhakar Sharma Navid Aslfattahi Mokhtar Ghodbane Journal of Energy Storage, Volume 52, Part B, Article Number 104858 Impact Factor: 8.907 Quartile: 1 Citations: 74 DOI: https://doi.org/10.1016/j.est.2022.104858	2022
Fabrication of shape-stabilized phase change materials based on waste plastics for energy storage 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	2022
Using response surface methodology approach for optimizing performance and emission parameters of diesel engine powered with ternary blend of Solketal-biodiesel-diesel Prabhakar Sharma Minh Phung Le Ajay Chhillar Zafar Said Balakrishnan Deepanraj Dao Nam Cao Suhaib A. Bandh Anh Tuan Hoang Sustainable Energy Technologies and Assessments, Volume 52, Part D, Article Number 102343 Impact Factor: 7.632 Quartile: 2 Citations: 51 DOI: https://doi.org/10.1016/j.seta.2022.102343	2022
Two-phase simulation of the generated entropy for the nanofluid flow inside a ribbed passage for cooling of a PV cell Nima Mazaheri Shoaib Khanmohammadi Mehdi Bahiraei Zafar Said Thermal Science and Engineering Progress, Volume 33, Article Number 101353 Impact Factor: 4.560 Quartile: 1 Citations: 11 DOI: https://doi.org/10.1016/j.tsep.2022.101353	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 Zafar Said Prabhakar Sharma Arun Kumar Tiwari Van Vang Le ZuoHua Huang Van Ga Bui Anh Tuan Hoang Journal of Cleaner Production, Volume 360, Article Number 132194 Impact Factor: 11.1 Quartile: 1 Citations: 84 DOI: https://doi.org/10.1016/j.jclepro.2022.132194	2022
Performance characterization of a solar-powered shell and tube heat exchanger utilizing MWCNTs/water-based nanofluids: An experimental, numerical, and artificial intelligence approach Zafar Said Shek Rahman Prabhakar Sharma Ahmed Amine Hachicha Salah Issa Applied Thermal Engineering, Volume 212, Article Number 118633 Impact Factor: 6.4 Quartile: 1 Citations: 69 DOI: https://doi.org/10.1016/j.applthermaleng.2022.118633	2022
Experimental investigations on modified thermosyphons using R134a/Al2O3 and comparative machine learning analysis R.S. Anand C.P. Jawahar A. Brusly Solomon Shibin David Evangelos Bellos Zafar Said Applied Thermal Engineering, Volume 212, Article Number 118554 Impact Factor: 6.4 Quartile: 1 Citations: 11 DOI: https://doi.org/10.1016/j.applthermaleng.2022.118554	2022
Impact of sonication durations on thermophysical properties, contact angle and surface tension of f- MWCNTs nanofluid for heat transfer Zafar Said Maham Aslam Sohail Rashmi Walvekar Changhui Liu Journal of Molecular Liquids, 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 S. Mojtaba Tabarhoseini M. Sheikholeslami Zafar Said Solar Energy Materials and Solar Cells, 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

H. Allouhi A. Allouhi M.S. Buker Zafar Said A. Jamil

Solar Energy Materials and Solar Cells, Volume 241, Article Number 111743

Impact Factor: 7.267 | Quartile: 1 | Citations: 42 DOI: https://doi.org/10.1016/j.solmat.2022.111743

Experimental investigations on efficiency and instability of combustion process in a diesel engine

2022

fueled with ternary blends of hydrogen peroxide additive/biodiesel/diesel

Prabhakar Sharma Ajay Chhillar Zafar Said Zuohua Huang Van Nhanh Nguyen Phuoc Quy Phong Nguyen Xuan Phuong Nguyen

Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Volume 44, Issue 3, Pages 5929-5950

Impact Factor: 2.902 | Quartile: 3 | Citations: 35 DOI: https://doi.org/10.1080/15567036.2022.2091692

Preparation and thermophysical study on a super stable copper oxide/deep eutectic solvent nanofluid

2022

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