Tahir Abdul Hussain Ratlamwala

Professor

Pakistan Navy Engineering College

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About

Dr. Tahir Abdul Hussain Ratlamwala is working as Professor in the Pakistan Navy Engineering College. Dr. Tahir Abdul Hussain Ratlamwala has a PhD in Renewable Energy. Dr. Tahir Abdul Hussain Ratlamwala has published 121 research articles & conference papers having a citation count of 1912, carried out 1 projects and filed 3 intellectual property.

Qualifications

PhD in Renewable Energy 2011 - 2013
University of Ontario Institute of Technology , Canada

MS in Renewable Energy 2009 - 2011
American University of Sharjah , United Arab Emirates

BS in Hydrogen Fuel Cells 2005 - 2009
American University of Sharjah , United Arab Emirates

Experience

Professor 2024- Present
Pakistan Navy Engineering College

Associate Professor 2019 - 2024
Pakistan Navy Engineering College

Assistant Professor 2017 - 2019
Pakistan Navy Engineering College

Head Of Research Committee 2016 - 2017
Shaheed Zulfiqar Ali Bhutto Institute Of Science And Technolgy , 90 and 100 Clifton Campus

Assistant Professor 2016 - 2017
Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology , 90 and 100 Clifton Campus

Researcher 2015 - 2015
UOIT , 2000 Simcoe Street North Oshawa, Ontario L1H 7K4

Assistant Professor 2014 - 2015
Eastern Mediterranean University , Department of Mechanical Engineeirng, Eastern Mediterranean University

Assistant Professor 2014 - 2014
Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology , 90 and 100 Clifton Campus

Awards

School/College Best Researcher Awards-2021 2022

Academic Gold Medal 2014
Governor General of Canada Gold Medal in Academics. This is the most prestigious Canadian Academic Award.

Professional Memberships

PEC Since 2018

Research Projects

National Projects

Hydrogen-Electric Energy Storage Mechanisms and Robustness Enhancement Research in Standalone Renewable Energy Systems with Wind and Solar 2024

Funding Agency: PAKISTAN SCIENCE FOUNDATION AND NATIONAL NATURAL SCIENCE FOUNDATION CHINA
Amount: PKR 9,942,000.00
Status: Approved_inprocess

International Projects

Research Articles

Mathematical modelling of a sustainable energy system for restaurant communities: Waste-to-H2 conversion, CO2 sequestration, clean fuel production, and power generation 2025

Syed Muhammad Aun Rizvi Khurram Kamal Tahir Abdul Hussain Ratlamwala
Computers and Chemical Engineering, Volume 199, Article Number 109038
Impact Factor: 3.900 | **Quartile:** 2 | **Citations:** 1
DOI: https://doi.org/10.1016/j.compchemeng.2025.109038

Integrated energy, exergy, and environment (3E) analysis, and life cycle assessment of renewable sourced multigeneration system for optimized performance and environmental impact assessment 2025

Sheikh Muhammad Ali Haider Tahir Abdul Hussain Ratlamwala Khurram Kamal Mohammed Alkahtani Muhammad Abid Haifeng Liu
Sustainable Energy Technologies and Assessments, Volume:80, Article Number 104368
Impact Factor: 7.00 | **Quartile:** 2
DOI: https://doi.org/10.1016/j.seta.2025.104368

Decarbonization pathways for Gas Turbines: A thermodynamic and lifecycle evaluation of hydrogen and biogas blends 2025

Abdul Rafay Khokhar Tahir Abdul Hussain Ratlamwala Khurram Kamal Mohammed Alkahtani Sayem Zafar
International Journal of Hydrogen Energy, Volume:143, Pages561-581
Impact Factor: 8.300 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.ijhydene.2025.03.320

Numerical prediction of ureter stone size using an integrated CFD-ML approach 2025

Muhammad Mubashar Ashraf Khurram Kamal Muhammad Fahad N. F. M. Noor Tahir Abdul Hussain Ratlamwala
Neural Computing and Applications, Volume:37, Issue:7, Pages 5325-5341
Impact Factor: 4.500 | **Quartile:** 2
DOI: https://doi.org/10.1007/s00521-024-10880-1

Sustainable Hydrogen Storage and Methanol Synthesis Through Solar-Powered Co-Electrolysis Using SOEC 2024

Muhammad Sajid Khan Muhammad Abid Chen Chen Juliana Hj Zaini Tahir Abdul Hussain Ratlamwala Ali Ahmed Alqahtani
Energy Storage, Volume:6, Issue:8, Article Number e70095
Impact Factor: 4.000 | **Quartile:** 3
DOI: https://doi.org/10.1002/est2.70095

An innovative renewable energy–based tri-generation system for electricity, LNG regasification and hydrogen production 2024

Muhammad Sajid Khan Mao Zijian Muhammad Abid Mi Yan Tahir Abdul Hussain Ratlamwala Saadia Yousuf Chen Chen Muhammad Umer
International Journal of Hydrogen Energy, Volume: 52, Part A, Pages 13-21
Impact Factor: 7.2 | **Quartile:** 1 | **Citations:** 10
DOI: 10.1016/j.ijhydene.2023.10.187

Comparative analysis of a multi-generation system using different conventional & nano based working fuels 2024

Tahir Abdul Hussain Ratlamwala Hafsa Javed Sana Naseem Khurram Kamal
International Journal of Hydrogen Energy, Volume:52, Part A Page:1-12
Impact Factor: 7.2 | **Quartile:** 1 | **Citations:** 2
DOI: 10.1016/j.ijhydene.2023.07.170

Thermal modelling and analysis of a novel solar integrated waste-to-energy plant for sustainable society 2023

Muhammad Sajid Khan Tahir Abdul Hussain Ratlamwala Mi Yan Saadia Yousuf Muhammad Abid
International Journal of Hydrogen Energy, Volume 48, Issue 99, Pages 39286-39297

Impact Factor: 7.2 | **Quartile:** 1 | **Citations:** 8
DOI: https://doi.org/10.1016/j.ijhydene.2023.07.188

Tool Health Classification in Metallic Milling Process Using Acoustic Emission and Long Short-Term Memory Networks: A Deep Learning Approach 2023

Fawad Khan Khurram Kamal Tahir Abdul Hussain Ratlamwala Mohammed Alkahtani Mohammed Almatani Senthan Mathavan

IEEE Access , Volume 11, Pages 126611-126633

Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 6
DOI: 10.1109/ACCESS.2023.3328582

Sustainable operations of a combined cycle power plant using artificial intelligence based power prediction 2023

Adeel Asghar Tahir Abdul Hussain Ratlamwala Khurram Kamal Mohammed Alkahtani Emad Mohammad Senthan Mathavan

Heliyon , Volume 9, Issue 9, Article Number e19562

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 7
DOI: https://doi.org/10.1016/j.heliyon.2023.e19562

Stirnol Engine: A combination of Nitinol (shape memory alloy) and Gamma Stirling Engine 2023

Humayun Arif Syed Aqueel shah Tahir Abdul Hussain Ratlamwala Khurram Kamal Maqsood Ahmed

Revista Mexicana de Fisica, Volume 69, Issue 3, Pages 1-8

Impact Factor: 1.702 | **Quartile:** 3
DOI: 10.31349/RevMexFis.69.030601

Effect of Material Change on Stirnol Engine: A Combination of NiTiNOL (Shape Memory Alloy) and Gamma Stirling Engine 2023

Syed Aqueel shah Tahir Abdul Hussain Ratlamwala Khurram Kamal Maqsood Ahmed Khan Humayun Arif

Materials , Volume 16, Issue 8, Article Number 3257

Impact Factor: 3.748 | **Quartile:** 1 | **Citations:** 3
DOI: 10.3390/ma16083257

Clean Energy Based Multigeneration System for Sustainable Cities: Thermodynamic, and Stability Analyses 2023

Uzair Bhatti Hamza Aamir Khurram Kamal Tahir Abdul Hussain Ratlamwala Fahad Alqahtani Mohammed Alkahtani Emad Mohammad Moath Alatefi

Membranes , Volume 13(3), Article Number 358

Impact Factor: 4.562 | **Quartile:** 1 | **Citations:** 4
DOI: https://doi.org/10.3390/membranes13030358

Tool Health Monitoring of a Milling Process Using Acoustic Emissions and a ResNet Deep Learning Model 2023

Mustajab Ahmed Khurram Kamal Tahir Abdul Hussain Ratlamwala Ghulam Hussain Mejdal Alqahtani Mohammed Alkahtani Moath Alatefi Ayoub Alzabidi

Sensors , Volume 23(6), Article Number 3084

Impact Factor: 3.847 | **Quartile:** 2 | **Citations:** 15
DOI: https://doi.org/10.3390/s23063084

Energy and Exergy Analysis of a Geothermal Sourced Multigeneration System for Sustainable City 2023

Sheikh Muhammad Ali Haider Tahir Abdul Hussain Ratlamwala Khurram Kamal Fahad Alqahtani Mohammed Alkahtani Emad Mohammad Moath Alatefi

Energies , Volume 16, Issue 4, Article Number 1616

Impact Factor: 3.252 | **Quartile:** 3 | **Citations:** 6
DOI: https://doi.org/10.3390/en16041616

Simulation and modeling of copper-chlorine cycle, molten carbonate fuel cell alongside a heat recovery system named regenerative steam cycle and electric heater with the incorporation of PID controller in MATLAB/SIMULINK 2022

Haseeb Kamran Uzair Mudassir Abdul Moiz Ali Khurram Kamal Tahir Abdul Hussain Ratlamwala M Abbas Raza Karam Khan

International Journal of Hydrogen Energy, Article in Press

Impact Factor: 7.139 | **Quartile:** 2 | **Citations:** 5
DOI: https://doi.org/10.1016/j.ijhydene.2022.04.178

Modeling and Simulation of Solid Oxide Fuel Cell Integrated with Anaerobic Digester, Thermal Storage Unit and Solar Collector: A Net Zero Emission System 2022

Muhammad Nihal Naseer Khurram Kamal Muhammad Abid Asif Iqbal Hamdullah Khan Ch. Muhammad Zubair Sagar Kumar Tahir Abdul Hussain Ratlamwala Malik Muhammad Nauman

International Journal of Photoenergy, Volume 2022, Article ID 8790631, 17 pages

Impact Factor: 2.535 | **Quartile:** 3 | **Citations:** 1
DOI: https://doi.org/10.1155/2022/8790631

Thermo-environmental analysis and performance comparison of solar assisted single to multi-generation systems 2022

Muhammad Sajid Khan Muhammad Abid Mi Yan Tahir Abdul Hussain Ratlamwala

International Journal of Exergy, Volume 36, Issue 2-4, Pages 243-263

Impact Factor: 1.467 | **Quartile:** 4 | **Citations:** 3

DOI: 10.1504/IJEX.2021.118719

Fault classification of power plants using artificial neural network 2022

Muhammad Sabbar Hassan Khurram Kamal Tahir Abdul Hussain Ratlamwala

Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Volume 44, No. 3, Pages 7665-7680

Impact Factor: 2.902 | **Quartile:** 3 | **Citations:** 4

DOI: 10.1080/15567036.2022.2113936

Machining of Carbon Steel under Aqueous Environment: Investigations into Some Performance Measures 2022

Mushtaq Ali Tahir Abdul Hussain Ratlamwala Ghulam Hussain Tauheed Shehbaz Riaz Muhammad Muhammad Aamir Khaled Giasin Danil Yurievich Pimenov

Coatings , Volume 12(8), Article Number 1203

Impact Factor: 3.236 | **Quartile:** 2

DOI: https://doi.org/10.3390/coatings12081203

Thermal and hydraulic analysis of slotted plate fins heat sinks using numerical and experimental techniques 2022

Khurram Altaf Adeel Tariq Syed Waqar Ahmad Ghulam Hussain Tahir Abdul Hussain Ratlamwala Hafiz Muhammad Ali

Case Studies in Thermal Engineering, Volume 35, Article Number 102109

Impact Factor: 4.724 | **Quartile:** 1 | **Citations:** 25

DOI: https://doi.org/10.1016/j.csite.2022.102109

Aerodynamic Analyses of Airfoils Using Machine Learning as an Alternative to RANS Simulation 2022

Shakeel Ahmed Khurram Kamal Tahir Abdul Hussain Ratlamwala Senthan Mathavan Ghulam Hussain Mohammed Alkahtani Marwan Bin Muhammad Alsultan

Applied Sciences , Volume 12(10), Article Number 5194

Impact Factor: 2.9 | **Quartile:** 2 | **Citations:** 21

DOI: https://doi.org/10.3390/app12105194

Energy, exergy and exergo-environmental impact assessment of a solid oxide fuel cell coupled with absorption chiller & cascaded closed loop ORC for multi-generation 2022

Victor Adebayo Muhammad Abid Michael Adedeji Tahir Abdul Hussain Ratlamwala

International Journal of Hydrogen Energy, Volume 47, Issue 5, Pages 3248-3265

Impact Factor: 5.816 | **Quartile:** 2 | **Citations:** 55

DOI: https://doi.org/10.1016/j.ijhydene.2021.02.222

Failure classification in natural gas pipe-lines using artificial intelligence: A case study 2021

Abdul Manan Khurram Kamal Tahir Abdul Hussain Ratlamwala Muhammad Fahad Sheikh Abdul Ghani Abro Tayyab Zafar

Energy Reports , Volume 7, Pages 7640-7647

Impact Factor: 6.870 | **Quartile:** 1 | **Citations:** 20

DOI: https://doi.org/10.1016/j.egyr.2021.10.093

Thermodynamic analysis and comparison of different absorption cycles driven by evacuated tube solar collector utilizing hybrid nanofluids 2021

Muhammad Abid Muhammad Sajid Khan Tahir Abdul Hussain Ratlamwala Muhammad Nauman Malik Hafiz Muhammad Ali Quentin Cheok

Energy Conversion and Management , Volume 246, Article Number 114673

Impact Factor: 11.533 | **Quartile:** 1 | **Citations:** 67

DOI: https://doi.org/10.1016/j.enconman.2021.114673

Life Cycle Assessment and Feasibility Study of Solar Based Multi- Generation System 2021

Eliezer Zahid Gill Tahir Abdul Hussain Ratlamwala Sheharyar Waseem Ghulam Hussain Mohammed Alkahtani Khurram Altaf

Sustainable Energy Technologies and Assessments, Volume 47, Article Number 101321

Impact Factor: 7.632 | **Quartile:** 2 | **Citations:** 6

DOI: https://doi.org/10.1016/j.seta.2021.101321

Performance assessment of a solar tower assisted combined cycle power plant using supercritical carbon dioxide as a heat transfer fluid 2021

Muhammad Sajid Khan Muhammad Abid Mi Yan Tahir Abdul Hussain Ratlamwala

International Journal of Exergy, Volume 36, Issue 1, Pages 30-55

Impact Factor: 1.467 | **Quartile:** 4 | **Citations:** 4
DOI: doi/abs/10.1504/IJEX.2021.117603

Energy, exergy, exergo-economic and exergo-environmental analyses of solar based hydrogen generation system 2021

Eliezer Zahid Gill Ghulam Hussain Mohammed Alkahtani Tahir Abdul Hussain Ratlamwala
International Journal of Hydrogen Energy, Volume 46, Issue 57, Pages 29049-29064
Impact Factor: 5.816 | **Quartile:** 2 | **Citations:** 35
DOI: https://doi.org/10.1016/j.ijhydene.2020.07.100

Power prediction of waste heat recovery system for a cement plant using back propagation neural network and its thermodynamic modeling 2021

Ahmer Ali Khurram Kamal Tahir Abdul Hussain Ratlamwala Muhammad Fahad Sheikh Muhammad Arsalan
International Journal of Energy Research, Volume 45(6), Pages 9162-9178
Impact Factor: 4.672 | **Quartile:** 1 | **Citations:** 10
DOI: https://doi.org/10.1002/er.6444

Tool Health Monitoring Using Airborne Acoustic Emission and Convolutional Neural Networks: A Deep Learning Approach 2021

Khurram Kamal Tahir Abdul Hussain Ratlamwala Ghulam Hussain Muhammad Arslan Muhammad Fahad Sheikh Mahmood Anwar Khan Mohammed Alkahtani
Applied Sciences , Volume 11(6), Article Number 2734
Impact Factor: 2.838 | **Quartile:** 2 | **Citations:** 7
DOI: https://doi.org/ 10.3390/app11062734

Thermal and thermodynamic comparison of smooth and convergent-divergent parabolic trough absorber tubes with the application of mono and hybrid nanofluids 2021

Muhammad Sajid Khan Muhammad Abid Mi Yan Tahir Abdul Hussain Ratlamwala Ishrat Mubeen
International Journal of Energy Research, Pages 1-22
Impact Factor: 4.672 | **Quartile:** 1 | **Citations:** 31
DOI: https://doi.org/10.1002/er.6123

Modeling and Simulation of a Proton Exchange Membrane Fuel Cell Alongside a Waste Heat Recovery System Based on the Organic Rankine Cycle in MATLAB/SIMULINK Environment 2021

Sharjeel Ashraf Ansari Mustafa Khalid Khurram Kamal Tahir Abdul Hussain Ratlamwala Ghulam Hussain Mohammed Alkahtani
Sustainability , Volume 13(3), Article Number 1218
Impact Factor: 3.889 | **Quartile:** 2 | **Citations:** 40
DOI: https://doi.org/10.3390/su13031218

Thermal analysis of multigeneration system using geothermal energy as its main power source 2021

Sameer Adnan Ansari Mohammad Kazim Muhammad Areeb Khaliq Tahir Abdul Hussain Ratlamwala
International Journal of Hydrogen Energy, Volume 46, Issue 6, Pages 4724-4738
Impact Factor: 7.139 | **Quartile:** 2 | **Citations:** 52
DOI: https://doi.org/10.1016/j.ijhydene.2020.04.171

Comparative numerical and experimental analysis of thermal and hydraulic performance of improved plate fin heat sinks 2021

Adeel Tariq Khurram Altaf Syed Waqar Ahmad Ghulam Hussain Tahir Abdul Hussain Ratlamwala
Applied Thermal Engineering, Volume 182, Article Number 115949
Impact Factor: 6.465 | **Quartile:** 1 | **Citations:** 54
DOI: https://doi.org/10.1016/j.applthermaleng.2020.115949

Performance analysis of compressor-assisted two-stage triple effect absorption refrigeration cycle for power and cooling 2021

Chinedu Frank Okwose Muhammad Abid Tahir Abdul Hussain Ratlamwala
Energy Conversion and Management, Volume 227, Article Number 113547
Impact Factor: 11.533 | **Quartile:** 1 | **Citations:** 18
DOI: https://doi.org/10.1016/j.enconman.2020.113547

Thermo-environmental investigation of solar parabolic dish-assisted multi-generation plant using different working fluids 2020

Muhammad Abid Muhammad S. Khan Tahir Abdul Hussain Ratlamwala Khuram P. Amber
International Journal of Energy Research, Volume 44, Issue15, Pages 12376-12394
Impact Factor: 5.164 | **Quartile:** 1 | **Citations:** 19
DOI: https://doi.org/10.1002/er.5340

Techno-Economic Analysis of Glazed, Unglazed and Evacuated Tube Solar Water Heaters 2020

Syed Ali Raza Syed Sulman Ahmad Tahir Abdul Hussain Ratlamwala Ghulam Hussain Mohammed Alkhatani

Energies , Volume 13(23), Article Number 6261

Impact Factor: 3.004 | **Quartile:** 3 | **Citations:** 6

DOI: https://doi.org/10.3390/en13236261

Thermo-environ study of a concentrated photovoltaic thermal system integrated with Kalina cycle for multigeneration and hydrogen production 2020

Patrick Ayambire Tareq Al-Ansari Tahir Abdul Hussain Ratlamwala Olusola Bamisile Qi Huang Mustafa Dagbasi Victor Adebayo Eric C. Okonkwo

International Journal of Hydrogen Energy, Volume 45, Issue 51, Pages 26716-26732

Impact Factor: 5.816 | **Quartile:** 2 | **Citations:** 53

DOI: https://doi.org/10.1016/j.ijhydene.2020.07.029

Concentrated Solar Powered Novel Multi-Generation System: A Energy, Exergy, and Environmental Analysis 2020

Olusola Bamisile Qi Huang Mustafa Dagbasi Muhammad Abid Emmanuel C. Okafor Tahir Abdul Hussain Ratlamwala

Journal of Solar Energy Engineering, Volume 142 (5), Article Number 051005

Impact Factor: 2.384 | **Quartile:** 3 | **Citations:** 16

DOI: https://doi.org/10.1115/1.4046392

Performance evaluation of compressor assisted multi-effect absorption refrigeration cycles for power and cooling using evacuated tube collectors 2020

Chinedu Frank Okwose Muhammad Abid Tahir Abdul Hussain Ratlamwala

International Journal of Exergy, Volume:32, Issue:3, Page:227-248

Impact Factor: 1.383 | **Quartile:** 4 | **Citations:** 2

DOI: 10.1504/IJEX.2020.108589

Performance evaluation of compressor assisted multi-effect absorption refrigeration cycles for power and cooling using evacuated tube collectors 2020

Chinedu Frank Okwose Muhammad Abid Tahir Abdul Hussain Ratlamwala

International Journal of Exergy, Volume 32 (3), Pages 227-248

Impact Factor: 1.383 | **Quartile:** 4 | **Citations:** 2

DOI: https://doi.org/10.1504/IJEX.2020.108589

Performance analysis of solar assisted multigenerational system using therminol VP1 based nanofluids: A comparative study 2020

Muhammad Sajid Khan Khuram Pervez Amber Hafiz Muhammad Ali Muhammad Abid Tahir Abdul Hussain Ratlamwala Samina Javed

Thermal Science , Volume 24, Issue 2, Pages 865-878

Impact Factor: 1.625 | **Quartile:** 4 | **Citations:** 17

DOI: https://doi.org/10.2298/TSCI180608062K

Impact of Sloshing on Fossil Fuel Loss during Transport 2020

Hafsa Mir Tahir Abdul Hussain Ratlamwala Ghulam Hussain Mohammed Alkahtani Mustufa Haider Abidi

Energies , Volume 13, Issue 10, Article Number 2625

Impact Factor: 3.004 | **Quartile:** 3 | **Citations:** 4

DOI: https://doi.org/10.3390/en13102625

Comparative energy, exergy and exergo-economic analysis of solar driven supercritical carbon dioxide power and hydrogen generation cycle 2020

Muhammad Abid Muhammad Sajid Khan Tahir Abdul Hussain Ratlamwala

International Journal of Hydrogen Energy, Volume 45, Issue 9, Pages 5653-5667

Impact Factor: 5.816 | **Quartile:** 2 | **Citations:** 52

DOI: https://doi.org/10.1016/j.ijhydene.2019.06.103

Geothermal and solar based mutligenerational system: A comparative analysis 2020

Sheharyar Waseem Tahir Abdul Hussain Ratlamwala Yawar Salman Abdallah Ayub Bham

International Journal of Hydrogen Energy, Volume 45, Issue 9, Pages 5636-5652

Impact Factor: 5.816 | **Quartile:** 2 | **Citations:** 37

DOI: https://doi.org/10.1016/j.ijhydene.2019.06.135

Energy and exergy analyses of the solar assisted multigeneration system with thermal energy storage system 2020

Tahir Abdul Hussain Ratlamwala Eliezer Z. Gill

Energy Storage , Volume 2 (1), Article Number e106, Pages 1-14

Impact Factor: -

DOI: https://doi.org/10.1002/est2.106

Entropy Generation Minimization in a Parabolic Trough Collector Operating With SiO2–Water Nanofluids Using the Genetic Algorithm and Artificial Neural Network 2019

Eric Chekwube Okonkwo Humphrey Adun Akinola A. Babatunde Muhammad Abid Tahir Abdul Hussain Ratlamwala

Journal of Thermal Science and Engineering Applications, Volume 12(3), Article No. 031007

Impact Factor: 1.544 | **Quartile:** 3 | **Citations:** 29

DOI: https://doi.org/10.1115/1.4044755

Geothermal and solar energy-based multigeneration system for a district 2019

Tahir Abdul Hussain Ratlamwala Sheharyar Waseem Yawar Salman Abdallah Ayub Bham

International Journal of Energy Research, Volume 43, Issue 10, Pages 5230-5251

Impact Factor: 3.741 | **Quartile:** 1 | **Citations:** 27

DOI: 10.1002/er.4480

Olive Leaf-Synthesized Nanofluids for Solar Parabolic Trough Collector-Thermal Performance Evaluation 2019

Eric Chekwube Okonkwo Edidiong A. Essien Doga Kavaz Muhammad Abid Tahir Abdul Hussain Ratlamwala

Journal of Thermal Science and Engineering Applications , Volume 11, Issue 4, Article Number 041009

Impact Factor: 1.544 | **Quartile:** 2 | **Citations:** 18

DOI: 10.1115/1.4043820

Thermodynamic Performance Evaluation of a Solar Parabolic Dish Assisted Multigeneration System 2019

Muhammad Abid Muhammad Sajid Khan Tahir Abdul Hussain Ratlamwala

American Society of Mechanical Engineers: Journal of Solar Energy Engineering , Volume 141, Issue 6

Impact Factor: 1.641 | **Quartile:** 3 | **Citations:** 21

DOI: 10.1115/1.4044022

Municipal solid waste based multigeneration system for different districts of Karachi 2019

Tahir Abdul Hussain Ratlamwala Syed Irtiza Ali Abdullah Riaz Syed Muhammad Hamza

International Journal of Exergy, Volume 29, Issue 2/3/4

Impact Factor: 0.958 | **Quartile:** 4 | **Citations:** 5

DOI: 10.1504/IJEX.2019.100368

Geothermal and solar energy amalgamated multigeneration system escorting diverse needs of a district 2019

Tahir Abdul Hussain Ratlamwala Ammar Ahmed Raja Subhan Raza Jaffry Umair Zafar

International Journal of Exergy, Volume 29, Issue 2-4, Pages 318-349, Special Issue SI

Impact Factor: 0.958 | **Quartile:** 4 | **Citations:** 16

DOI: 10.1504/IJEX.2019.100369

Energy, exergy, exergoeconomic, and exergoenvironmental study of a parabolic trough collector using a converging-diverging receiver tube 2019

Eric Chekwube Okonkwo Tahir Abdul Hussain Ratlamwala Muhammad Abid

International Journal of Exergy, Volume 29, Issue 2/3/4, Pages: 131-154, Special Issue SI

Impact Factor: 0.958 | **Quartile:** 4

Comparative Study of Heat Transfer Enhancement in Parabolic Trough Collector Based on Modified Absorber Geometry 2019

Eric Chekwube Okonkwo Muhammad Abid Tahir Abdul Hussain Ratlamwala

American Society of Civil Engineers- Journal of Energy Engineering, Volume 145, Issue 3

Impact Factor: 1.341 | **Quartile:** 3 | **Citations:** 27

DOI: 10.1061/(ASCE)EY.1943-7897.0000602

Optimal analysis of entropy generation and heat transfer in parabolic trough collector using green-synthesized TiO2/Water nanofluids 2018

Eric C. Okonkwo Muhammad Abid TAHIR ABDUL HUSSAIN RATLAMWALA Serkan Abbasoglu Mustafa Dagbasi

JOURNAL OF SOLAR ENERGY , NULL

Impact Factor: 1.190 | **Quartile:** 3 | **Citations:** 24

DOI: 10.1115/1.4041847

Techno-environmental analysis of a parabolic dish assisted recompression with and without reheat s-CO2 Brayton cycle 2018

Muhammad Abid Muhammad Sajid Khan Tahir Abdul Hussain Ratlamwala

International Journal of Exergy, Volume 27, Issue 4, Pages 527-552

Impact Factor: 1.13 | **Quartile:** 3 | **Citations:** 9

DOI: 10.1504/IJEX.2018.096014

Effects of synthetic-oil nanofluids and absorber geometries on the exergetic performance of the parabolic trough collector 2018

Eric C. Okonkwo Muhammad Abid TAHIR ABDUL HUSSAIN RATLAMWALA

International Journal of Energy Research, NULL

Impact Factor: 3.343 | **Quartile:** 1 | **Citations:** 31

DOI: 10.1002/er.4099

Thermal performance analysis of a parabolic trough collector using waterbased green-synthesized nanofluids 2018

Eric C. Okonkwo Edidiong A. Essien Evidence Akhayere Muhammad Abid Doga Kavaz TAHIR ABDUL HUSSAIN RATLAMWALA

Solar Energy , Volume 170, Pages 658-670

Impact Factor: 4.674 | **Quartile:** 1 | **Citations:** 91

DOI: 10.1016/j.solener.2018.06.012

Performance analysis of solar assisted multi-effect absorption cooling systems using nanofluids: A comparative analysis 2018

Tahir Abdul Hussain Ratlamwala Muhammad Abid

International Journal of Energy Research, Volume: 42, Issue:9, Pages: 2901-2915

Impact Factor: 3.343 | **Quartile:** 1 | **Citations:** 35

DOI: 10.1002/er.3980

Numerical analysis of heat transfer enhancement in a parabolic trough collector based on geometry modifications and working fluid usage 2018

Eric C. Okonkwo Muhammad Abid Tahir Abdul Hussain Ratlamwala

Journal of Solar Energy Engineering, NULL

Impact Factor: 1.190 | **Quartile:** 3 | **Citations:** 67

DOI: 10.1115/1.4040076

Second-Law Analysis and Exergoeconomics Optimization of a Solar Tower?Driven Combined-Cycle Power Plant Using Supercritical CO2 2018

Eric C. Okonkwo Chinedu F. Okwose Muhammad Abid TAHIR ABDUL HUSSAIN RATLAMWALA

Journal of Energy Engineering - ASCE, NULL

Impact Factor: 1.131 | **Quartile:** 3 | **Citations:** 26

DOI: https://doi.org/10.1061/(ASCE)EY.1943-7897.0000534

Development of a new heliostat field based integrated solar energy system for cogeneration 2018

M. Rabbani Tahir Abdul Hussain Ratlamwala Ibrahim Dincer

Arabian Journal for Science and Engineering, Vol: 43, Pages:1267-1277

Impact Factor: 1.711 | **Quartile:** 3 | **Citations:** 14

DOI: 10.1007/s13369-017-2774-x

Energy and exergy analyses of hybrid photocatalytic hydrogen production reactor for Cu-Cl cycle 2018

Tahir Abdul Hussain Ratlamwala Ibrahim Dincer

International Journal of Hydrogen Energy, Volume 43, Issue 9, Pages 4167-4176

Impact Factor: 4.084 | **Quartile:** 2 | **Citations:** 5

DOI: 10.1016/j.ijhydene.2017.12.138

Energy, Exergy and Economic Feasibility Analyses of a 60 MW Conventional Steam Power Plant Integrated with Parabolic Trough Solar Collectors Using Nanofluids 2018

Muhammad Sajid Khan Muhammad Abid Tahir Abdul Hussain Ratlamwala

Iranian Journal of Science and Technology-Transactions of Mechanical Engineering, 17 Pages

Impact Factor: 0.727 | **Quartile:** 4

Solar assisted multi-generation system using nanofluids: A comparative analysis 2017

Muhammad Abid Tahir Abdul Hussain Ratlamwala Ugur Atikol

International Journal of Hydrogen Energy, Volume 42, Issue 33, Pages 21429-21442

Impact Factor: 4.229 | **Quartile:** 1 | **Citations:** 64

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Impact Factor: 5.34

2020

Reviewed Papers for Journals
Impact Factor: 3.99

2020

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Impact Factor: 3.99

2020

Reviewed Papers for Journals
Impact Factor: 1.98

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2020

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Impact Factor: 5.39

2020

Reviewed Papers for Journals
Impact Factor: 5.164

2020

Reviewed Papers for Journals
Impact Factor: 4.084

2020

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2019

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Impact Factor: 6.95

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Impact Factor: 3.99

2019

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Impact Factor: 1.302

2019

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Impact Factor: 5.537

2019

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Impact Factor: 3.343

2019

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Impact Factor: 7.181

2019

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Impact Factor: 3.343

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Impact Factor: 5.537

2017

Reviewed Papers for Journals
Impact Factor: 4.968

2017

Reviewed Papers for Journals
Impact Factor: 4.968

Intellectual Property

Copyrights

Patents

Designing A Two-way PARABOLIC TROUGH collector 2018
Status: Filed

Industrial Designs

Pipe Inspection Robot 2021
Status: Granted Filed

Pipe Inspection Robot 2020
Status: Granted Filed

Trademarks