Nadia Shahzad

Associate Professor

US-Pakistan Center for Advanced Studies in Energy

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LinkedIn:

About

Dr. Nadia Shahzad is working as Associate Professor in the US-Pakistan Center for Advanced Studies in Energy. Dr. Nadia Shahzad has a PhD in Solar Energy Conversion: Material And Devices. Dr. Nadia Shahzad has published 99 research articles & conference papers having a citation count of 1814, carried out 12 projects and filed 0 intellectual property.

Qualifications

PhD in Solar Energy Conversion: Material And Devices 2010 - 2014
Polytechnic Institute of Turin , Italy

MPhil in Applied Physics) 2007 - 2009
UET Lahore , Pakistan

MSc in (Physics) 2004 - 2006
University of Agriculture Faisalabad , Pakistan

BSc in Physics, Math) 2002 - 2004
University of the Punjab , Pakistan

Experience

Associate Professor 2021- Present
US-Pakistan Center for Advanced Studies in Energy

Assistant Professor 2019 - 2021
US-Pakistan Center for Advanced Studies in Energy

Assistant Professor 2019 - 2019
US-Pakistan Center for Advanced Studies in Energy

Assistant Professor 2016 - 2019
US-Pakistan Center for Advanced Studies in Energy

Assistant Professor 2016 - 2016
Centre for Energy System

Assistant Professor 2015 - 2016
National Centre for Physics , NCP, QAU Campus, Shahdara Valley Road, Islamabad

Short Post Doc 2014 - 2015
Politecnico Di Torino , Corso Duca degli Abruzzi, 24, 10129 Torino TO, Italy

Awards

Research Projects

National Projects

Developing Climate Resilience Environment through Energy Transition and Knowledge Development 2024
Funding Agency: TARA Climate Foundation
Amount: PKR 22,401,960.00
Status: Approved_inprocess

Integration of Flexible Solar PV Devices for Solar Fabric Application 2024
Funding Agency: NUST Projects Sectt
Amount: PKR 520,000.00
Status: Approved_inprocess

Creating Climate Resilience through Energy Transition: Fostering Innovation and Awareness in Pakistan 2023
Funding Agency: Tara Climate Ltd
Amount: PKR 18,900,120.00
Status: Approved_inprocess

Design and printing of self healing flexible perovskite solar cell devices 2024
Funding Agency: Pakistan Science Foundation
Amount: PKR 9,065,000.00
Status: Approved_inprocess

Hybrid Concentrated Solar Power for Industrial and Domestic Applications 2024
Funding Agency: Pakistan Science Foundation
Amount: PKR 3,590,000.00
Status: Approved_inprocess

To combat climate calamity by promoting energy transition In Pakistan through Knowledge creation, networking, and advocacy for enabling society. 2022
Funding Agency: Tara Climate Ltd
Amount: PKR 11,312,840.00
Status: Completed

Fabrication of Highly Stable Perovskite and All Oxide Solar Cells for Their Application as Solar Windows for Renewable Electricity Generation 2024
Funding Agency: Pakistan Science Foundation
Amount: PKR 2,215,860.00
Status: Approved_inprocess

Fabrication of high efficiency perovskite solar cells for their application as solar windows for renewable electricity generation 2022
Funding Agency: NUST Research Fund (Grant for Young Researchers)
Amount: PKR 1,000,000.00
Status: Approved_inprocess

Towards Emerging Perovskite and Solid State Dye-Sensitized Solar Cells 2017
Funding Agency: HEC
Amount: PKR 15,000,000.00
Status: Completed

International Projects

Industry Projects

National Projects

Advancements in Adsorbent Technology for Enhanced Oxygen-Nitrogen Separation in Pressure Swing Adsorption Systems 2024

Client: ONNIOT
Amount: PKR 400,000.00
Status: Approved_inprocess

Establishment of Solar Energy Training Lab- Advancing Solar PV Technology and Skills 2024

Client: ATLAS Group of Companies, Pvt. Ltd.
Amount: PKR 1,660,000.00
Status: Completed

Testing of PV modules 2022

Client: PSQCA, Faisalabad
Amount: PKR 121,000.00
Status: Completed

International Projects

Research Articles

Experimental study of solar-powered atmospheric water generator for extracting potable water from air 2025

Syed Shabir Ahmed Ranjeet Kumar Nadia Shahzad Adeel Waqas Ahmad Naveed Hussain Roha Shahzad Naseem Iqbal Muhammad Imran Shahzad

Chemical Engineering Research and Design, Volume:219, Page:388-396

Impact Factor: 3.900 | **Quartile:** 2
DOI: https://doi.org/10.1016/j.cherd.2025.06.015

Manganese doped Ni-MOF derived porous carbon-based bifunctional oxygen electrode catalyst for metal air batteries 2025

Naseem Iqbal Rabia Ahmad Tayyaba Noor Nadia Shahzad Muhammad Imran Shahzad

Materials Chemistry and Physics, Volume 334, Article Number 130448

Impact Factor: 4.300 | **Quartile:** 2 | **Citations:** 3
DOI: doi.org/10.1016/j.matchemphys.2025.130448

Influence of cobalt redox couple concentration on the characteristics of liquid and quasi-solid electrolytes and on the photovoltaic parameters of dye-sensitised solar cells 2025

Kashan Ahmad Ahad hussain Javed Nadia Shahzad Muhammad Imran Shahzad Zuhair Subhani Khan Naseem Iqbal Memoona Qamar Adriano Sacco Diego Pugliese

Applied Physics A: Materials Science and Processing, Volume:131, Issue:3, Article Number 170

Impact Factor: 2.500 | **Quartile:** 2 | **Citations:** 1
DOI: https://link.springer.com/article/10.1007/s00339-025-08279-3

Effect of lanthanum doped SnO2 on the performance of mixed-cation mixed-halide perovskite layer 2025

Sana Mehmood Nadia Shahzad Saad Nadeem Muhammad Salik Qureshi Abdul Sattar Hina Pervaiz Naseem Iqbal Rabia Liaquat Muhammad Imran Shahzad

Journal of Molecular Structure, Volume 1321, Part 2, Article Number 139864

Impact Factor: 4.000 | **Quartile:** 2 | **Citations:** 1
DOI: https://doi.org/10.1016/j.molstruc.2024.139864

Single Precursor-Derived Sub-1 nm MoCo Bimetallic Particles Decorated on Phosphide-Carbon Nitride Framework for Sustainable Hydrogen Generation 2025

Sadam Hussain Manzar Sohail Nadia Shahzad Geoffrey Will Anthony P. O'Mulane Mohammad Rezaul Karim Md Abdul Wahab Ibrahim A. Alnaser Ahmed Abdala

ACS Applied Materials and Interfaces, Volume:17, Issue:3, Pages 4728-4743

Impact Factor: 8.300 | **Quartile:** 1 | **Citations:** 3
DOI: https://doi.org/10.1021/acsami.4c12577

Unveiling the physicochemical, photocatalytic, antibacterial and antioxidant properties of MWCNT-modified Ag2O/CuO/ZnO nanocomposites 2025

Amjad Latif Lone Sadiq Ur Rehman Sirajul Haq Nadia Shahzad Mohammad Khalid Al-Sadoon Muhammad Imran Shahzad Jamoliddin Razzokov Shafia Shujaat Abdus Samad

RSC Advances, Volume 15(2), Pages 1323-1334

Impact Factor: 3.900 | **Quartile:** 2 | **Citations:** 1
DOI: doi.org/10.1039/D4RA08466G

Solution-Processed Zinc-Tin-Based Ternary Oxide Electron Transport Layers for Planar Perovskite Solar Cells 2024

Saad Nadeem Nadia Shahzad Sana Mehmood Muhammad Salik Qureshi Abdul Sattar Rabia Liaquat Sehar Shakir Muhammad Imran Shahzad Diego Pugliese

Physica Status Solidi A - Applications and Materials Science, Volume: 222, Issue: 4 Article Number; 2400700, Pages:07

Impact Factor: 1.900 | **Quartile:** 3

DOI: https://doi.org/10.1002/pssa.202400700

Enhanced optoelectronic characteristics of La-doped ZnO and its compatibility with Cs-doped MAPbI3 perovskite absorber material 2024

Ayesha Tabriz Nadia Shahzad Hina Pervaiz Muhammad Imran Shahzad Saad Nadeem Sana Mehmood Ghulam Ali Naseem Iqbal Diego Pugliese

Physica Scripta , Volume 99, Number 11, Article Number 115992

Impact Factor: 2.600 | **Quartile:** 2 | **Citations:** 1

DOI: 10.1088/1402-4896/ad868e

Synthesis and Performance Analysis of a Carbon-Doped Titania (C–TiO2) Counter Electrode (CE) for Dye-Sensitized Solar Cells (DSSCs) 2024

Faisal Abbas Muhammad Tahir Asif Hussain Nadia Shahzad Mustafa Anwar Muniba ayub Sehar Shakir

Journal of Electronic Materials , Volume 53, Issue 8, Pages 4773-4781

Impact Factor: 2.200 | **Quartile:** 3 | **Citations:** 3

DOI: https://doi.org/10.1007/s11664-024-11222-6

Performance evaluation of ruthenium complexes and organic sensitizers in ZnO-based dye-sensitized solar cells 2024

Muniba Ayub Nadia Shahzad Ahad Hussain Javed Sana Mehmood Saad Nadeem Zuhair S Khan Sehar Shakir Faroha Liaqat Faisal Abbas Muhammad Imran Shahzad Diego Pugliese

Engineering Research Express , Volume 6, Issue 2, Article Number 025016

Impact Factor: 1.500 | **Quartile:** 2 | **Citations:** 1

DOI: 10.1088/2631-8695/ad5787

The impact of a TiO2/r-GO composite material on the performance of electron transport electrodes of dye sensitized solar cells 2024

Hina Pervaiz Nadia Shahzad Qasim Jamil

RSC Advances , Volume 14, Issue 23, Pages 15907-15914

Impact Factor: 3.900 | **Quartile:** 2 | **Citations:** 4

DOI: https://doi.org/10.1039/D4RA00829D

Sulfide-based Mo-MOF derived bifunctional electrocatalysts for direct methanol fuel cells 2024

Neelam Zaman Dr Naseem Iqbal Dr. Tayyaba Noor Dr. Nadia Shahzad Junkuo Gao

Fuel , Volume 362, Article Number: 130813,

Impact Factor: 7.4 | **Quartile:** 1 | **Citations:** 16

DOI: 10.1016/j.fuel.2023.130813

Investigating the Electrical and Optical Properties of Nickle and Strontium Co-Doped CsPbBr3 Nanocrystals: Potential Absorber Material for Perovskite Solar Cells 2024

Saqib Ali Sofia Javed Muhammad Aftab Akram Nadia Shahzad Muhammad Adnan Muhammad Usman Maryam Basit Faiza Rizwan Muhammad Mujahid

Transactions on Electrical and Electronic Materials , Pages 1-12

Impact Factor: 1.600 | **Quartile:** 4 | **Citations:** 4

DOI: https://doi.org/10.1007/s42341-024-00520-9

Unlocking the potential of passive cooling: A comprehensive experimental study of PV/PCM/TEC hybrid system for enhanced photovoltaic performance 2024

Ayesha Khan Nadia Shahzad Adeel Waqas Mariam Mahmood Majid Ali Shayan Umar

Journal of Energy Storage , Volume 80, Article Number: 110277

Impact Factor: 9.4 | **Quartile:** 1 | **Citations:** 28

DOI: 10.1016/j.est.2023.110277

Pn@MF@SiO2 Double-Shelled Phase Change Microcapsules with High Latent Heat and Low Leakage Rate 2024

Yujiao Li Tianyu Cai Zhuoni Jiang Fangfang He Zhengguo Chen Hafiz Muhammad Ali Nadia Shahzad Adeel Waqas Ahmad Yongsheng Li Wenbin Yang

ChemistrySelect , Volume 9, Issue 5, Article Number 113666

Impact Factor: 1.900 | **Quartile:** 2 | **Citations:** 1

DOI: https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/slct.202303322

Self-cleaning study of SiO2 modified TiO2 nanofibrous thin films prepared via electrospinning for application in solar cells 2024

Izzah Batool Nadia Shahzad Roha Shehzad Aamir Naseem Satti Rabia Liaquat Adeel Waqas Muhammad Imran Shahzad

Solar Energy, Volume 268, Article Number 112271

Impact Factor: 6.700 | **Quartile:** 2 | **Citations:** 20

DOI: 10.1016/j.solener.2023.112271

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

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 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

A building integrated solar PV surface-cleaning setup to optimize the electricity output of PV modules in a polluted atmosphere 2023

Shayan Umar Adeel Waqas Waqas Tanveer Nadia Shahzad Abdul Kashif Janjua Maziar Dehgan Muhammad Salik Qureshi Sehar Shakir

Renewable Energy, Volume 216, Article Number 119122

Impact Factor: 8.7 | **Quartile:** 1 | **Citations:** 19

DOI: https://doi.org/10.1016/j.renene.2023.119122

Experimental study to optimize the thermal performance of Li-ion cell using active and passive cooling techniques 2023

Umer Iqbal Majid Ali Hassan Abdullah Khalid Adeel Waqas Mariam Mahmood Naveed Ahmed Nadia Shahzad Naseem Iqbal Khurram Mehboob

Journal of Energy Storage, Volume 70, Article Number 108013

Impact Factor: 9.4 | **Quartile:** 1 | **Citations:** 9

DOI: https://doi.org/10.1016/j.est.2023.108013

Synthesis of new benzimidazole based ruthenium (II) dyes for application in dye-sensitized solar cells with detailed spectroscopic and theoretical evaluation 2023

Sidrah Zafar Saba Ashraf Urooj Iqbal Sammer Yousuf Humaira Masood Siddiqi Faroha Liaqat Hafiza Maria Rehman Zareen Akhtar Ahmed El-Shafei Nadia Shahzad

Journal of Molecular Structure, Volume 1289, Article Number 135860

Impact Factor: 3.8 | **Quartile:** 2 | **Citations:** 7

DOI: https://doi.org/10.1016/j.molstruc.2023.135860

Antibacterial and antioxidant screening applications of reduced-graphene oxide modified ternary SnO2-NiO-CuO nanocomposites 2023

Sirajul Haq Maria Rashid Farid Menaa Nadia Shahzad Muhammad Imran Shahzad Sulaiman Y.M. Alfaifi O. Madkhali Mahmood D. Aljabri Misbah Ashravi Roaa A. Tayeb Mohammed M. Rahman

Arabian Journal of Chemistry, Volume 16, Issue 8, Article Number 104917

Impact Factor: 6.212 | **Quartile:** 2 | **Citations:** 15

DOI: https://doi.org/10.1016/j.arabjc.2023.104917

Electrochemical and power conversion performance of different counter electrode materials for flexible dye-sensitized solar cells 2023

Hina Pervaiz Nadia Shahzad Qasim Jamil Muhammad Imran Shahzad

RSC Advances, Volume 13, Issue 29, Pages 20255-20263

Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 3

DOI: DOI: 10.1039/d3ra01974h

N to P-type transition with narrowing optical bandgap and increasing carrier concentration of spin coated Cu doped ZnS thin films for optoelectronic applications 2023

Saad Saud Ali Shah Saifullah Awan Sana Zainab Hassan Tariq M. Bilal Riaz Azhar Ul-Haq Nadia Shahzad Naseem Iqbal

Optical Materials, Volume 141, Article Number 113816

Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 11

DOI: https://doi.org/10.1016/j.optmat.2023.113816

Performance of Cs-Doped Carbon-Based Perovskite Solar Cells in Ambient Environment 2023

Tanzeela Yousaf Nadia Shahzad Abdul Sattar Muhammad Ali Tariq Naveed Hussain Zuhair Subhani Khan Sofia Javed Muhammad Imran Shahzad Diego Pugliese

Energies , Volume 16, Issue 12, Article Number 4748

Impact Factor: 3.2 | **Quartile:** 3 | **Citations:** 3

DOI: https://doi.org/10.3390/en16124748

Techno-economic appraisal of electric vehicle charging stations integrated with on-grid photovoltaics on existing fuel stations: A multicity study framework 2023

Talha Hussain Shah Altamash Shabbir Adeel Waqas Abdul Kashif Janjua Nadia Shahzad Hina Pervaiz Sehar Shakir

Renewable Energy , Volume 209, Pages 133-144

Impact Factor: 8.634 | **Quartile:** 1 | **Citations:** 40

DOI: https://doi.org/10.1016/j.renene.2023.03.128

Performance assessment of Trombe wall and south façade as applications of building integrated photovoltaic systems 2023

Muhammad Siddique Nadia Shahzad Shayan Umar Adeel Waqas Sehar Shakir Abdul Kashif Janjua

Sustainable Energy Technologies and Assessments, Volume 57, Article Number 103141

Impact Factor: 7.632 | **Quartile:** 2 | **Citations:** 19

DOI: https://doi.org/10.1016/j.seta.2023.103141

Highly stable and efficient NH3(aq)/C4H10S processed CuSCN bilayers for perovskite solar cells 2023

Muhammad Ali Tariq Nadia Shahzad Abdul Sattar Tanzeela Yousaf Ahad Hussain Javed Naseem Iqbal Muhammad Imran Shahzad

Journal of Materials Science: Materials in Electronics, Volume 34, Issue 9, Article Number: 783

Impact Factor: 2.779 | **Quartile:** 2 | **Citations:** 3

DOI: 10.1007/s10854-023-10115-4

Structural Evolution and Irradiation Hardening Studies in α-particles Irradiated Mo Thin Films 2023

Nisar Ahmed Zuhair Subhani Khan Asghar Ali Muhammad Azhar Iqbal Muhammad Imran Shahzad Nadia Shahzad

Materials Today Communications, Volume 34, Article Number 105238

Impact Factor: 3.662 | **Quartile:** 3 | **Citations:** 2

DOI: https://doi.org/10.1016/j.mtcomm.2022.105238

Accelerated UV stress testing and characterization of PV-modules: Reliability analysis using different encapsulants and glass sheets 2023

Muhammad Farooq Azam Nadia Shahzad Arslan Rafique Mudassar Ayub Hassan Abdullah Khalid Adeel Waqas Ahmad

Sustainable Energy Technologies and Assessments, Volume 56, Article Number 103119

Impact Factor: 7.632 | **Quartile:** 2 | **Citations:** 5

DOI: https://doi.org/10.1016/j.seta.2023.103119

Fabrication of cellulose paper-based counter electrodes for flexible dye-sensitized solar cells 2023

Hina Pervaiz Zuhair S. Khan Nadia Shahzad Ghulam Ali Naseem Iqbal Sofia Javed

Physical Chemistry Chemical Physics , Volume 25, Issue 1, Pages 428-438

Impact Factor: 3.945 | **Quartile:** 1 | **Citations:** 10

DOI: https://doi.org/10.1039/D2CP04358K

Green synthesis of NiO-SnO2 nanocomposite and the effect of calcination temperature on their physicochemical and photocatalytic properties on Methyl Orange 2022

Sirajul Haq Anum Sarfraz Farid Menaa Nadia Shahzad Salah Ud Din Hanadi A. Almukhlifi Sohad A. Alshareef Ethar M. Al Essa Muhammad Imran Shahzad

Molecules , Volume 27(23), Article Number 8420

Impact Factor: 4.6 | **Quartile:** 2

DOI: https://doi.org/10.1063/5.00999000

Barriers and drivers for adoption of energy efficient and environment friendly brick kiln technologies in Punjab, Pakistan 2022

Akhtar Abbas Muhammad Bilal Sajid Nadia Shahzad Emad Uddin Mariam Mahmood Usman Salahuddin

Energy Reports , Volume 8, Pages 15563-15573

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

DOI: https://doi.org/10.1016/j.egyr.2022.11.128

A Novel Shift in the Absorbance Maxima of Methyl Orange with Calcination Temperature of Green Tin Dioxide Nanoparticle-Induced Photocatalytic Activity 2022

Sirajul Haq Rimsha Ehsan Farid Menaa Nadia Shahzad Salah Ud Din Muhammad Imran Shahzad Wajid Rehman Muhammad Waseem Walaa Alrhabi Hanadi A. Almukhlifi Sohad Abdulkaleg Alsharef

Catalysts , Volume 12, Issue 11, Article Number 1397

Impact Factor: 4.501 | **Quartile:** 2 | **Citations:** 14

DOI: 10.3390/catal12111397

Fabrication of Carbon/Zinc Oxide Nanocomposites as Highly Efficient Catalytic Materials for Application in Dye-Sensitized Solar Cells 2022

Hussain Gulab Nusrat Fatima Nadia Shahzad Muhammad Imran Shahzad Mohsin Siddique Muhammad Hussain Muhammad Humayun

Catalysts , Volume 12, Issue 11, Article Number 1354

Impact Factor: 4.501 | **Quartile:** 2 | **Citations:** 5

DOI: 10.3390/catal12111354

Synthesis and characterization of CuInS2 nanostructures and their role in solar cell applications 2022

Hina Pervaiz Zuhair Subhani Khan Nadia Shahzad Nisar Ahmed Qasim Jamil

Materials Chemistry and Physics , Volume 290, Article Number 126602

Impact Factor: 4.6 | **Quartile:** 2 | **Citations:** 12

DOI: 10.1016/j.matchemphys.2022.126602

Investigations into the Antifungal, Photocatalytic, and Physicochemical Properties of Sol-Gel-Produced Tin Dioxide Nanoparticles 2022

Sirajul Haq Nadia Shahzad Muhammad Imran Shahzad Khaled Elmnasri Manel Ben Ali Amor Hedfi Rimsha Ehsan Alaa Baazeem

Molecules , Volume 27, Issue 19, Article Number 6750

Impact Factor: 4.6 | **Quartile:** 2 | **Citations:** 6

DOI: 10.3390/molecules27196750

Sono-chemical assisted synthesis of carbon nanotubes-nickel phosphate nanocomposites with excellent energy density and cyclic stability for supercapattery applications 2022

Waseem Shehzad Muhammad Ramzan AbdulKarim Muhammad Zahir Iqbal Nadia Shahzad Athar Ali

Journal of Energy Storage , Volume 54, Article Number 105231

Impact Factor: 8.907 | **Quartile:** 1 | **Citations:** 27

DOI: https://doi.org/10.1016/j.est.2022.105231

Techno-economic and GHG mitigation analyses based on regional and seasonal variations of non-concentrating solar thermal collectors in textile sector of Pakistan 2022

Rabia Liaquat Elia Nauroz Ali Majid Ali Adeel Waqas Nadia Shahzad

Renewable Energy Focus , Volume:42, Page:165-177

Impact Factor: 4.8 (ESCI) | **Citations:** 10

DOI: 10.1016/j.ref.2022.06.005

Carbonyl functional group assisted crystallization of mixed tin–lead narrow bandgap perovskite absorber in ambient conditions 2022

Abdul Sattar Nadia Shahzad Muhammad Ali Tariq Tanzeela Yousaf Muhammad Salik Qureshi Muhammad Imran Shahzad Rabia Liaquat Majid Ali

Applied Physics Letters , Volume 121, Issue 7, Article Number 073901

Impact Factor: 3.971 | **Quartile:** 2

DOI: https://doi.org/10.1063/5.0099988

Thermal management of solar photovoltaic module by using drilled cylindrical rods integrated with phase change materials 2022

Muhammad Shoaib Sheher Yar Khan Naveed Ahmed Mariam Mahmood Adeel Waqas Mumtaz A.Qaisrani Nadia Shehzad

Journal of Energy Storage , Volume 52, Part B, Article Number 104956

Impact Factor: 8.907 | **Quartile:** 1 | **Citations:** 21

DOI: https://doi.org/10.1016/j.est.2022.104956

Study of soiling on PV module performance under different environmental parameters using an indoor soiling station 2022

Naveed Hussain Nadia Shahzad Tanzeela Yousaf Adeel Waqas Ahmad Ahad Hussain Javed M. Abdullah Khan Muhammad Imran Shahzad

Sustainable Energy Technologies and Assessments , Volume:52, Article Number 102260

Impact Factor: 5.353 | **Quartile:** 2 | **Citations:** 14

DOI: https://doi.org/10.1016/j.seta.2022.102260

Experimental investigation of potential induced degradation of poly-crystalline photovoltaic modules: Influence of superstrate and encapsulant types 2022

Quratulain Jamil Nadia Shahzad Hassan Abdullah Khalid Saeed Iqbal Adeel Waqas Ahmad Afzal H. Kamboh

Sustainable Energy Technologies and Assessments , Volume 52, Part B, Article Number 102162

Impact Factor: 5.353 | **Quartile:** 2 | **Citations:** 10

DOI: https://doi.org/10.1016/j.seta.2022.102162

Thermal and electrical performance of solar floating PV system compared to on-ground PV system-an experimental investigation 2022

Hamza Nisar Abdul Kashif Janjua Hamza Hafeez Sehar Shakir Nadia Shahzad Adeel Waqas Ahmad

Solar Energy, Volume 241, Pages 231-247

Impact Factor: 6.7 | **Quartile:** 2 | **Citations:** 72

DOI: https://doi.org/10.1016/j.solener.2022.05.062

Tin dioxide nanoparticles for waste water treatment: Facile synthesis and characterization 2022

Rimsha Ehsan Sirajul Haq Nadia Shahzad Fethi Ben Abdallah Manel Ben Ali Montasser M Hassan Amor Hedfi Salah Ud Din Muhammad Imran Shahzad

Materials Research Express, Volume 9, Issue 5, Article Number 055006

Impact Factor: 2.025 | **Quartile:** 4 | **Citations:** 8

DOI: 10.1088/2053-1591/ac6cce

Counter electrode materials based on carbon nanotubes for dye-sensitized solar cells 2022

Nadia Shahzad Lutfullah Tahira Parveen Diego Pugliese Sirajul Haq Nusrat Fatima Syed Muhammad Salman Alberto Tagliaferro Muhammad Imran Shahzad

Renewable and Sustainable Energy Reviews, Volume 159, Article Number 112196

Impact Factor: 14.982 | **Quartile:** 1 | **Citations:** 73

DOI: https://doi.org/10.1016/j.rser.2022.112196

The Development of Highly Fluorescent Hemicyanine and Dicyanoisophorone Dyes for Applications in Dye-Sensitized Solar Cells 2022

Ghulam Shabir Sama Arooj Ahad Hussain Javed Aamer Saeed Nadia Shahzad Naseem Iqbal Erum Jabeen

Journal of Fluorescence, Volume 32, Pages 799-815

Impact Factor: 2.217 | **Quartile:** 3 | **Citations:** 8

DOI: https://doi.org/10.1007/s10895-021-02873-3

Zeolitic imidazolate frameworks derived Co-Zn-nanoporous carbon-sulfide material for supercapacitors 2022

Rabia Ahmad Naseem Iqbal Tayyaba Noor Ghulam Ali Majid Ali Nadia Shehzad Muhammad Arslan Raza

Electrochimica Acta, Volume 404, Article Number 139739

Impact Factor: 6.901 | **Quartile:** 2 | **Citations:** 22

DOI: https://doi.org/10.1016/j.electacta.2021.139739

Role of bi-layered CuSCN based hole transport films to realize highly efficient and stable perovskite solar cells. 2022

Muhammad Ali Tariq Nadia Shahzad Abdul Sattar Muneeza Ahmad Mustafa Anwar Muhammad Imran Shahzad

Surfaces and Interfaces, Volume 28, Article Number 101657

Impact Factor: 4.837 | **Quartile:** 1 | **Citations:** 7

DOI: https://doi.org/10.1016/j.surfin.2021.101657

Solvothermal Synthesis of Flower-Flakes Like Nano Composites of Ni-Co Metal Organic Frameworks and Graphene Nanoplatelets for Energy Storage Applications 2022

Muhammad Ramzan Abdul Karim Muhammad Noman Khurram Imran Khan Waseem Shehzad Ehsan Ul Haq Nadia Shahzad KHURRAM YAQOOB

ECS Journal of Solid State Science and Technology, Volume 11, Number 1, Article Number 011001

Impact Factor: 2.070 | **Quartile:** 3 | **Citations:** 22

DOI: 10.1149/2162-8777/ ac44f8

Techno-economic perspective of a floating solar PV deployment over urban lakes: A case study of NUST lake Islamabad 2022

Hamza Hafeez Abdul Kashif Janjua Hamza Nisar Sehar Shakir Nadia Shahzad Adeel Waqas

Solar Energy, Volume 231, Pages 355-364

Impact Factor: 6.7 | **Quartile:** 2 | **Citations:** 41

DOI: https://doi.org/10.1016/j.solener.2021.11.071

Investigating the Sequential Deposition Route for Mixed Cation Mixed Halide Wide Bandgap Perovskite Absorber Layer 2021

Muneeza Ahmad Nadia Shahzad Muhammad Ali Tariq Abdul Sattar Diego Pugliese

Energies, Volume 14(24), Article Number 8401

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

DOI: https://doi.org/10.3390/en14248401

Enhanced Photocatalytic Activity of Ficus elastica Mediated Zinc Oxide-Zirconium Dioxide Nanocatalyst at Elevated Calcination Temperature: Physicochemical Study 2021

Sirajul Haq Israf Ud Din Pervaiz Ahmad Mayeen Uddin Khandaker Hamid Osman Sultan Alamri Muhammad Imran Shahzad Nadia Shahzad Wajid Rehman Muhammad Waseem Humma Afsar

catalysts, Volume 11(12), Article Number 1481

Impact Factor: 4.146 | **Quartile:** 2 | **Citations:** 12

DOI: https://doi.org/10.3390/catal11121481

Synthesis of bimetallic Co-Ni/ZnO nanoprisms (ZnO-NPr) for hydrogen-rich syngas production via partial oxidation of methane 2021

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