

Nadia Shahzad

Associate Professor

US-Pakistan Center for Advanced Studies in Energy

Email: nadia@uspcase.nust.edu.pk

Contact: 519085528

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 1815, carried out 12 projects and filed 0 intellectual property.

Qualifications

PhD in Solar Energy Conversion: Material And Devices Polytechnic Institute of Turin , Italy	2010 - 2014
MPhil in Applied Physics) UET Lahore , Pakistan	2007 - 2009
MSc in (Physics) University of Agriculture Faisalabad , Pakistan	2004 - 2006
BSc in Physics, Math) University of the Punjab , Pakistan	2002 - 2004

Experience

Associate Professor US-Pakistan Center for Advanced Studies in Energy	2021- Present
Assistant Professor US-Pakistan Center for Advanced Studies in Energy	2019 - 2021
Assistant Professor US-Pakistan Center for Advanced Studies in Energy	2019 - 2019
Assistant Professor US-Pakistan Center for Advanced Studies in Energy	2016 - 2019
Assistant Professor Centre for Energy System	2016 - 2016
Assistant Professor National Centre for Physics , NCP, QAU Campus, Shahdara Valley Road, Islamabad	2015 - 2016
Short Post Doc Politecnico Di Torino , Corso Duca degli Abruzzi, 24, 10129 Torino TO, Italy	2014 - 2015

Awards

Research Projects

National Projects

Developing Climate Resilience Environment through Energy Transition and Knowledge Development Funding Agency: TARA Climate Foundation Amount: PKR 22,401,960.00 Status: Approved_inprocess	2024
Integration of Flexible Solar PV Devices for Solar Fabric Application Funding Agency: NUST Projects Sectt Amount: PKR 520,000.00 Status: Approved_inprocess	2024
Creating Climate Resilience through Energy Transition: Fostering Innovation and Awareness in Pakistan Funding Agency: Tara Climate Ltd Amount: PKR 18,900,120.00 Status: Approved_inprocess	2023
Design and printing of self healing flexible perovskite solar cell devices Funding Agency: Pakistan Science Foundation Amount: PKR 9,065,000.00 Status: Approved_inprocess	2024
Hybrid Concentrated Solar Power for Industrial and Domestic Applications Funding Agency: Pakistan Science Foundation Amount: PKR 3,590,000.00 Status: Approved_inprocess	2024
To combat climate calamity by promoting energy transition In Pakistan through Knowledge creation, networking, and advocacy for enabling society. Funding Agency: Tara Climate Ltd Amount: PKR 11,312,840.00 Status: Completed	2022
Fabrication of Highly Stable Perovskite and All Oxide Solar Cells for Their Application as Solar Windows for Renewable Electricity Generation Funding Agency: Pakistan Science Foundation Amount: PKR 2,215,860.00 Status: Approved_inprocess	2024
Fabrication of high efficiency perovskite solar cells for their application as solar windows for renewable electricity generation Funding Agency: NUST Research Fund (Grant for Young Researchers) Amount: PKR 1,000,000.00 Status: Approved_inprocess	2022
Towards Emerging Perovskite and Solid State Dye-Sensitized Solar Cells Funding Agency: HEC Amount: PKR 15,000,000.00 Status: Completed	2017

International Projects

Industry Projects

National Projects

Advancements in Adsorbent Technology for Enhanced Oxygen-Nitrogen Separation in Pressure Swing Adsorption Systems Client: ONNIOT Amount: PKR 400,000.00 Status: Approved_inprocess	2024
Establishment of Solar Energy Training Lab- Advancing Solar PV Technology and Skills Client: ATLAS Group of Companies, Pvt. Ltd. Amount: PKR 1,660,000.00 Status: Completed	2024
Testing of PV modules Client: PSQCA, Faisalabad Amount: PKR 121,000.00 Status: Completed	2022

International Projects

Research Articles

Experimental study of solar-powered atmospheric water generator for extracting potable water from air <i>Syed Shabir Ahmed Ranjeet Kumar Nadia Shahzad Adeel Waqas Ahmad Naveed Hussain Roha Shahzad Naseem Iqbal Muhammad Imran Shahzad</i> <i>Chemical Engineering Research and Design</i> , Volume:219, Page:388-396 Impact Factor: 3.900 Quartile: 2 DOI: https://doi.org/10.1016/j.cherd.2025.06.015	2025
Manganese doped Ni-MOF derived porous carbon-based bifunctional oxygen electrode catalyst for metal air batteries <i>Naseem Iqbal Rabia Ahmad Tayyaba Noor Nadia Shahzad Muhammad Imran Shahzad</i> <i>Materials Chemistry and Physics</i> , Volume 334, Article Number 130448 Impact Factor: 4.300 Quartile: 2 Citations: 3 DOI: doi.org/10.1016/j.matchemphys.2025.130448	2025
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 <i>Kashan Ahmad Ahad hussain Javed Nadia Shahzad Muhammad Imran Shahzad Zuhair Subhani Khan Naseem Iqbal Memoona Qamar Adriano Sacco Diego Pugliese</i> <i>Applied Physics A: Materials Science and Processing</i> , 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	2025
Effect of lanthanum doped SnO2 on the performance of mixed-cation mixed-halide perovskite layer <i>Sana Mehmood Nadia Shahzad Saad Nadeem Muhammad Salik Qureshi Abdul Sattar Hina Pervaiz Naseem Iqbal Rabia Liaquat Muhammad Imran Shahzad</i> <i>Journal of Molecular Structure</i> , 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	2025
Single Precursor-Derived Sub-1 nm MoCo Bimetallic Particles Decorated on Phosphide-Carbon Nitride Framework for Sustainable Hydrogen Generation <i>Sadam Hussain Manzar Sohail Nadia Shahzad Geoffrey Will Anthony P. O'Mulane Mohammad Rezaul Karim Md Abdul Wahab Ibrahim A. Alnaser Ahmed Abdala</i> <i>ACS Applied Materials and Interfaces</i> , Volume:17, Issue:3, Pages 4728-4743 Impact Factor: 8.300 Quartile: 1 Citations: 3 DOI: https://doi.org/10.1021/acsami.4c12577	2025
Unveiling the physicochemical, photocatalytic, antibacterial and antioxidant properties of MWCNT-modified Ag2O/CuO/ZnO nanocomposites <i>Amjad Latif Lone Sadiq Ur Rehman Sirajul Haq Nadia Shahzad Mohammad Khalid Al-Sadoon Muhammad Imran Shahzad Jamoliddin Razzokov Shafia Shujaat Abdus Samad</i> <i>RSC Advances</i> , Volume 15(2), Pages 1323-1334 Impact Factor: 3.900 Quartile: 2 Citations: 1 DOI: doi.org/10.1039/D4RA08466G	2025

Solution-Processed Zinc-Tin-Based Ternary Oxide Electron Transport Layers for Planar Perovskite Solar Cells <i>Saad Nadeem Nadia Shahzad Sana Mehmood Muhammad Salik Qureshi Abdul Sattar Rabia Liaquat Sehar Shakir Muhammad Imran Shahzad Diego Pugliese</i> <i>Physica Status Solidi A - Applications and Materials Science</i> , Volume: 222, Issue: 4 Article Number; 2400700, Pages:07 Impact Factor: 1.900 Quartile: 3 DOI: https://doi.org/10.1002/pssa.202400700	2024
Enhanced optoelectronic characteristics of La-doped ZnO and its compatibility with Cs-doped MAPbI₃ perovskite absorber material <i>Ayesha Tabriz Nadia Shahzad Hina Pervaiz Muhammad Imran Shahzad Saad Nadeem Sana Mehmood Ghulam Ali Naseem Iqbal Diego Pugliese</i> <i>Physica Scripta</i> , Volume 99, Number 11, Article Number 115992 Impact Factor: 2.600 Quartile: 2 Citations: 1 DOI: 10.1088/1402-4896/ad868e	2024
Synthesis and Performance Analysis of a Carbon-Doped Titania (C–TiO₂) Counter Electrode (CE) for Dye-Sensitized Solar Cells (DSSCs) <i>Faisal Abbas Muhammad Tahir Asif Hussain Nadia Shahzad Mustafa Anwar Muniba ayub Sehar Shakir</i> <i>Journal of Electronic Materials</i> , 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	2024
Performance evaluation of ruthenium complexes and organic sensitizers in ZnO-based dye-sensitized solar cells <i>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</i> <i>Engineering Research Express</i> , Volume 6, Issue 2, Article Number 025016 Impact Factor: 1.500 Quartile: 2 Citations: 1 DOI: 10.1088/2631-8695/ad5787	2024
The impact of a TiO₂/r-GO composite material on the performance of electron transport electrodes of dye sensitized solar cells <i>Hina Pervaiz Nadia Shahzad Qasim Jamil</i> <i>RSC Advances</i> , Volume 14, Issue 23, Pages 15907-15914 Impact Factor: 3.900 Quartile: 2 Citations: 4 DOI: https://doi.org/10.1039/D4RA00829D	2024
Sulfide-based Mo-MOF derived bifunctional electrocatalysts for direct methanol fuel cells <i>Neelam Zaman Dr Naseem Iqbal Dr. Tayyaba Noor Dr. Nadia Shahzad Junkuo Gao</i> <i>Fuel</i> , Volume 362, Article Number: 130813, Impact Factor: 7.4 Quartile: 1 Citations: 16 DOI: 10.1016/j.fuel.2023.130813	2024
Investigating the Electrical and Optical Properties of Nickle and Strontium Co-Doped CsPbBr₃ Nanocrystals: Potential Absorber Material for Perovskite Solar Cells <i>Saqib Ali Sofia Javed Muhammad Aftab Akram Nadia Shahzad Muhammad Adnan Muhammad Usman Maryam Basit Faiza Rizwan Muhammad Mujahid</i> <i>Transactions on Electrical and Electronic Materials</i> , Pages 1-12 Impact Factor: 1.600 Quartile: 4 Citations: 4 DOI: https://doi.org/10.1007/s42341-024-00520-9	2024
Unlocking the potential of passive cooling: A comprehensive experimental study of PV/PCM/TEC hybrid system for enhanced photovoltaic performance <i>Ayesha Khan Nadia Shahzad Adeel Waqas Mariam Mahmood Majid Ali Shayan Umar</i> <i>Journal of Energy Storage</i> , Volume 80, Article Number: 110277 Impact Factor: 9.4 Quartile: 1 Citations: 28 DOI: 10.1016/j.est.2023.110277	2024
Pn@MF@SiO₂ Double-Shelled Phase Change Microcapsules with High Latent Heat and Low Leakage Rate <i>Yujiao Li Tianyu Cai Zhuoni Jiang Fangfang He Zhengguo Chen Hafiz Muhammad Ali Nadia Shahzad Adeel Waqas Ahmad Yongsheng Li Wenbin Yang</i> <i>ChemistrySelect</i> , 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	2024

Self-cleaning study of SiO₂ modified TiO₂ nanofibrous thin films prepared via electrospinning for application in solar cells <i>Izzah Batool Nadia Shahzad Roha Shehzad Aamir Naseem Satti Rabia Liaquat Adeel Waqas Muhammad Imran Shahzad</i> <i>Solar Energy</i> , Volume 268, Article Number 112271 Impact Factor: 6.700 Quartile: 2 Citations: 20 DOI: 10.1016/j.solener.2023.112271	2024
Effect of surfactants on the stability and thermophysical properties of Al₂O₃+TiO₂ hybrid nanofluids <i>Abdul Rehman Sana Yaqub Majid Ali Hassan Nazir Nadia Shahzad Sehar Shakir Rabia Liaquat Zafar Said</i> <i>Journal of Molecular Liquids</i> , 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	2023
TC@MF phase change microcapsules with reversibly thermochromic property for temperature response and thermoregulation <i>Yujiao Li Aoshuang Yang Yongsheng Li Zhuoni Jiang Fangfang He Zhengguo Chen Xiaolan Li Zafar Said Nadia Shahzad Adeel Waqas Wenbin Yang</i> <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 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
A building integrated solar PV surface-cleaning setup to optimize the electricity output of PV modules in a polluted atmosphere <i>Shayan Umar Adeel Waqas Waqas Tanveer Nadia Shahzad Abdul Kashif Janjua Maziar Dehgan Muhammad Salik Qureshi Sehar Shakir</i> <i>Renewable Energy</i> , Volume 216, Article Number 119122 Impact Factor: 8.7 Quartile: 1 Citations: 19 DOI: https://doi.org/10.1016/j.renene.2023.119122	2023
Experimental study to optimize the thermal performance of Li-ion cell using active and passive cooling techniques <i>Umer Iqbal Majid Ali Hassan Abdullah Khalid Adeel Waqas Mariam Mahmood Naveed Ahmed Nadia Shahzad Naseem Iqbal Khurram Mehboob</i> <i>Journal of Energy Storage</i> , Volume 70, Article Number 108013 Impact Factor: 9.4 Quartile: 1 Citations: 9 DOI: https://doi.org/10.1016/j.est.2023.108013	2023
Synthesis of new benzimidazole based ruthenium (II) dyes for application in dye-sensitized solar cells with detailed spectroscopic and theoretical evaluation <i>Sidrah Zafar Saba Ashraf Urooj Iqbal Sammer Yousuf Humaira Masood Siddiqi Faroha Liaquat Hafiza Maria Rehman Zareen Akhtar Ahmed El-Shafei Nadia Shahzad</i> <i>Journal of Molecular Structure</i> , Volume 1289, Article Number 135860 Impact Factor: 3.8 Quartile: 2 Citations: 7 DOI: https://doi.org/10.1016/j.molstruc.2023.135860	2023
Antibacterial and antioxidant screening applications of reduced-graphene oxide modified ternary SnO₂-NiO-CuO nanocomposites <i>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</i> <i>Arabian Journal of Chemistry</i> , 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	2023
Electrochemical and power conversion performance of different counter electrode materials for flexible dye-sensitized solar cells <i>Hina Pervaiz Nadia Shahzad Qasim Jamil Muhammad Imran Shahzad</i> <i>RSC Advances</i> , Volume 13, Issue 29, Pages 20255-20263 Impact Factor: 3.9 Quartile: 2 Citations: 3 DOI: DOI: 10.1039/d3ra01974h	2023
N to P-type transition with narrowing optical bandgap and increasing carrier concentration of spin coated Cu doped ZnS thin films for optoelectronic applications <i>Saad Saud Ali Shah Saifullah Awan Sana Zainab Hassan Tariq M. Bilal Riaz Azhar Ul-Haq Nadia Shahzad Naseem Iqbal</i> <i>Optical Materials</i> , Volume 141, Article Number 113816 Impact Factor: 3.9 Quartile: 2 Citations: 11 DOI: https://doi.org/10.1016/j.optmat.2023.113816	2023
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 Alshareef
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 Elmnsri 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:** 28

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 Amer 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.surf.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 UI 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
 Ahad Hussain Javed M. Abdullah Khan Nadia Shahzad Faaz Ahmed Butt Nida Naeem Rabia Liaquat Asif Hussain Khoja
Journal of Environmental Chemical Engineering, Volume 9, Issue 6, Article Number 106887
Impact Factor: 5.909 | **Quartile:** 1 | **Citations:** 17
DOI: <https://doi.org/10.1016/j.jece.2021.106887>
- Effect of ZnO nanostructures on the performance of dye sensitized solar cells** 2021
 Ahad Hussain Javed Nadia Shahzad Muhammad Abdullah Khan Muniba Ayub Naseem Iqbal Muhammad Hassan Naveed Hussain Muhammad Imran Rameel Muhammad Imran Shahzad
Solar Energy, Volume 230, Pages 492-500
Impact Factor: 7.188 | **Quartile:** 2 | **Citations:** 41
DOI: <https://doi.org/10.1016/j.solener.2021.10.045>
- Phylogenetic Synthesis and Characterization of NiO-ZnO Nanocomposite for the Photodegradation of Brilliant Green and 4-Nitrophenol** 2021
 Sirajul Haq Aqsa Waheed Raja Sadiq Ur Rehman Amine Mezni Manel Ben Ali Amor Hedfi Muhammad Imran Shahzad Wajid Rehman Nadia Shahzad Muhammad Waseem Pervaiz Ahmad
Journal of Chemistry, Volume 2021, Article ID 3475036, 10 pages
Impact Factor: 2.506 | **Quartile:** 3 | **Citations:** 38
DOI: <https://doi.org/10.1155/2021/3475036>
- Designing of homemade soiling station to explore soiling loss effects on PV modules** 2021
 Naveed Hussain Nadia Shahzad Tanzeela Yousaf Adeel Waqas Ahad Hussain Javed Sheheryar Khan Majid Ali Rabia Liaquat
Solar Energy, Vol. 225, PP. 624–633
Impact Factor: 7.188 | **Quartile:** 2 | **Citations:** 12
DOI: <https://doi.org/10.1016/j.solener.2021.07.036>
- Evaluating the use of unassimilated bio-anode with different exposed surface areas for bioenergy production using solar-powered microbial electrolysis cell** 2021
 Muhammad Muddasar Rabia Liaquat Ali Abdullah Asif Hussain Nadia Shahzad Naseem iqbal Muhammad Ishtiaq Ali Azhar Uddin Sami Ullah
International Journal of Energy Research, Page 1-13
Impact Factor: 4.672 | **Quartile:** 1 | **Citations:** 15
DOI: [10.1002/er.7091](https://doi.org/10.1002/er.7091)
- Effectively transparent electrical contacts for thermally sensitive solar cells** 2021
 Maria Kanwal Nadia Shahzad Muhammad Ali Tariq Muhammad Imran Shahzad
Solar Energy Materials and Solar Cells, Volume 224, Article Number 110973
Impact Factor: 7.305 | **Quartile:** 1 | **Citations:** 7
DOI: <https://doi.org/10.1016/j.solmat.2021.110973>
- Antimicrobial and antioxidant properties of biosynthesized of NiO nanoparticles using Raphanus sativus (R. sativus) extract** 2021
 Sirajul Haq Sadaf Dildar Manel Ben Ali Amine Mezni Amor Hedfi Muhammad Imran Shahzad Nadia Shahzad Amreen Shah
Materials Research Express, Volume 8, Article Number 055006
Impact Factor: 2.025 | **Quartile:** 4
DOI: <https://iopscience.iop.org/article/10.1088/2053-1591/abfc7c/pdf>
- Thermal Performance Evaluation of Circular-Stadium Double Pipe Thermal Energy Storage Systems** 2021
 Muhammad Asjid Majid Ali Adeel Waqas Adeel Javed Nadia Shahzad Ali Abdullah Muhammad Umar Iqtidar
Journal of Energy Storage, Volume 36, Article Number 102403
Impact Factor: 8.907 | **Quartile:** 1 | **Citations:** 7
DOI: <https://doi.org/10.1016/j.est.2021.102403>
- Fabrication and Characterization of Zinc Titanate Heterojunction for Adsorption and Photocatalytic Applications** 2020
 Sabeena Shoukat Sirajul Haq Wajid Rehman Muhammad Waseem Muhammad Imran Shahzad Nadia Shahzad Muhammad Hafeez Salah Ud Din Amreen Shah Parsa Rasheed Zain Ul?Abdin
Journal of Inorganic and Organometallic Polymers and Materials, Volume 30, Pages 4944–4953
Impact Factor: 3.543 | **Quartile:** 2 | **Citations:** 7
DOI: <https://doi.org/10.1007/s10904-020-01590-x>
- Thermal management of solar PV module by using hollow rectangular aluminum fins** 2020
 Sheher Yar Khan Adeel Waqas Naveed Ahmad Mariam Mahmood Nadia Shahzad Muhammad Bilal Sajid
Journal of Renewable and Sustainable Energy, Volume 12, Article Number 063501

Impact Factor: 2.219 | **Quartile:** 4
DOI: <https://doi.org/10.1063/5.0020129>.

- Green Synthesis of Silver Oxide Nanostructures and Investigation of Their Synergistic Effect with Moxifloxacin Against Selected Microorganisms** 2020
Sirajul Haq Khawaja Ansar Yasin Wajid Rehman Muhammad Waseem Muhammad Naeem Ahmed Muhammad Imran Shahzad Nadia Shahzad Amreen Shah Mahfooz Ul Rehman Basharat Shah Sirajul Haq Khawaja Ansar Yasin Wajid Rehman Muhammad Waseem Muhammad Naeem Ahmed Muhammad Imran Shahzad Amreen Shah Mahfooz Ul Rehman Basharat Shah
Journal of Inorganic and Organometallic Polymers and Materials, Pages 1-10
Impact Factor: 3.543 | **Quartile:** 2 | **Citations:** 36
DOI: <https://doi.org/10.1007/s10904-020-01763-8>
- Experimental investigation of soiling losses and a novel costeffective cleaning system for PV modules** 2020
Nadia Shahzad Adeel Waqas Haider Sami Majid Ali Muhammad Rizwan Majeed
Solar Energy, Volume 201, Pages 298-306
Impact Factor: 5.742 | **Quartile:** 2 | **Citations:** 84
DOI: doi.org/10.1016/j.solener.2020.03.014
- Prospects in Anode Materials for Sodium Ion Batteries-A Review** 2020
Tahira Perveen Muhammad Imran Shahzad Muhammad Siddiq Nadia Shahzad Rida Ihsan Abrar Ahmad
Renewable and Sustainable Energy Reviews, Volume 119, Article Number 109549
Impact Factor: 14.982 | **Quartile:** 1 | **Citations:** 415
DOI: <https://doi.org/10.1016/j.rser.2019.109549>
- Effect of seed layer on the performance of ZnO nanorods-based photoanodes for dye-sensitized solar cells** 2019
Nadia Shahzad Zamarrud Shah Muhammad Imran Shahzad Kashan Ahmad Diego Pugliese
Materials Research Express, Volume 6, Issue 10, Article Number 105523
Impact Factor: 1.929 | **Quartile:** 3 | **Citations:** 8
DOI: [10.1088/2053-1591/ab3a61](https://doi.org/10.1088/2053-1591/ab3a61)
- Extensive growth of MWCNTs on copper substrates using various diffusion barrier layers** 2018
Muhammad Imran Shahzad Krishna Rajan Nadia Shahzad Muhammad Arshad Denis Perrone Mauro Giorcelli Alberto Tagliaferro
Diamond and Related Materials, Volume 82, Pages 124-131
Impact Factor: 2.290 | **Quartile:** 2 | **Citations:** 11
DOI: [10.1016/j.diamond.2018.01.005](https://doi.org/10.1016/j.diamond.2018.01.005)
- Comparative spectroscopic approach for the dye loading optimization of sheet-like ZnO photoanodes for dye-sensitized solar cells** 2017
Nadia Shahzad Diego Pugliese Valentina Cauda Muhammad Imran Shahzad Zamarrud Shah Muhammad Aslam Baig Elena Maria Tresso
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, Volume: 337 Pages: 192-197
Impact Factor: 2.891 | **Quartile:** 2 | **Citations:** 6
DOI: [10.1016/j.jphotochem.2017.01.011](https://doi.org/10.1016/j.jphotochem.2017.01.011)
- Convective Heat Transfer Enhancement for Electronic Device Applications using Patterned MWCNTs Structures** 2016
Nadia Shahzad Muhammad Imran Shahzad Alberto Tagliaferro M. Giorcelli L. Ventola D. Perrone E. Chiavazzo P. Asinari M. Cocuzza
Heat Transfer Engineering, Volume 37, Issue 9, Pages 783-790
Impact Factor: 1.235 | **Quartile:** 3 | **Citations:** 11
DOI: [10.1080/01457632.2015.1080570](https://doi.org/10.1080/01457632.2015.1080570)
- Real time monitoring of ultrafast sensitization for Dye-Sensitized Solar Cell photoanodes** 2016
Nadia Shahzad Andrea Lamberti Diego Pugliese Muhammad Imran Shahzad Elena Maria Tresso
Solar Energy, Volume 130, Pages 74-80
Impact Factor: 4.018 | **Quartile:** 1 | **Citations:** 6
DOI: [10.1016/j.solener.2016.02.014](https://doi.org/10.1016/j.solener.2016.02.014)
- Optical Absorption Cross Section of Individual Multi-Walled Carbon Nanotubes in the Visible Region** 2016
Nadia Shahzad Muhammad Imran Shahzad Alberto Tagliaferro
Journal of Nanoscience and Nanotechnology, Volume 16, Issue 1, Pages 457-464
Impact Factor: 1.483 | **Quartile:** 3 | **Citations:** 2
DOI: [10.1166/jnn.2016.10755](https://doi.org/10.1166/jnn.2016.10755)
- In-situ spectroscopic analyses of the dye uptake on ZnO and TiO2 photoanodes for Dye Sensitized Solar Cells** 2015
Diego Pugliese Muhammad Imran Shahzad Elena Tresso Nadia Shahzad

Impact Factor: 1.338 | **Quartile:** 3 | **Citations:** 7

DOI: 10.1166/jnn.2015.10291

Ultrafast Room-Temperature Crystallization of TiO₂ Nanotubes Exploiting Water-Vapor Treatment

2015

Andrea Lamberti Nadia Shahzad Fabrizio Candidio Pirri Angelica Chiodoni Stefano Bianco Marzia Quaglio

Scientific Reports, srep07808

Impact Factor: 5.228 | **Quartile:** 1 | **Citations:** 74

DOI: 10.1038/srep07808

Towards quasi-solid state Dye-sensitized Solar Cells: effect of gamma-Al₂O₃ nanoparticle dispersion into liquid electrolyte

2015

Adriano Sacco Nadia Shahzad Marchese L. Andrea Lamberti Matteo Gerosa Chiara Bisio Giorgio Gatti Fabio Carniato Angelica Chiodoni Elena Tresso

Solar Energy, Volume 111, pages 25–134

Impact Factor: 3.685 | **Quartile:** 1 | **Citations:** 25

DOI: 10.1016/j.solener.2014.10.034

Multifunctional NIR-reflective and self-cleaning UV-cured coating for solar cell applications based on cycloaliphatic epoxy resin

2014

Ignazio Rappolo Nadia Shahzad Adriano Sacco Elena Maria Tresso Marco Sangermano

Progress in Organic Coatings, Volume 77, Issue: 2, Pages 458– 462

Impact Factor: 2.358 | **Quartile:** 1 | **Citations:** 38

DOI: 10.1016/j.porgcoat.2013.11.009

Fast TiO₂ Sensitization Using the Semisquaric Acid as Anchoring Group

2013

Diego Pugliese Nadia Shahzad Fabrizio Candidio Pirri A. Sacco G. Musso A. Lamberti G. Caputo E. Tresso S. Bianco C. F. Pirri

International Journal of Photoenergy, Volume 2013, Article ID 871526, 8 pages

Impact Factor: N/A | **Citations:** 8

DOI: 10.1155/2013/871526

Comparison of Hemi-Squaraine Sensitized TiO₂ and ZnO Photoanodes for DSSC Applications

2013

Nadia Shahzad F. Risplendi D. Pugliese S. Bianco A. Sacco A. Lamberti R. Gazia E. Tresso G. Cicero

Journal of Physical Chemistry C, Volume 117, Issue 44, Pages 22778-22783

Impact Factor: 4.835 | **Quartile:** 1 | **Citations:** 37

DOI: 10.1021/jp406824f

Modeling of the dye loading time influence on the electrical impedance of a dye-sensitized solar cell

2013

Diego Pugliese Nadia Shahzad Adriano Sacco Elena Maria Tresso A.L.Alexe-Ionescu

Journal of Applied Physics, Volume 114, Issue 9, Article Number 094901

Impact Factor: 2.185 | **Quartile:** 2 | **Citations:** 7

DOI: 10.1063/1.4819207

Combined experimental and theoretical investigation of the hemi-squaraine/TiO₂ interface for dye sensitized solar cells

2013

Giancarlo Cicero Nadia Shahzad Giuseppe Caputo Andrea Lamberti Bruno Camino Stefano Bianco Diego Pugliese Francesca Risplendi Adriano Sacco Anna Maria Ferrari Barbara Ballarin Claudia Barolo Giuseppe Caputo Andrea Lamberti Bruno Camino Stefano Bianco Diego Pugliese Francesca Risplendi Adriano Sacco Anna Maria Ferrari Barbara Ballarin Claudia Barolo Giuseppe Caputo

Physical Chemistry Chemical Physics, Volume: 15 Issue: 19 Pages: 7198-7203

Impact Factor: 4.198 | **Quartile:** 1 | **Citations:** 35

DOI: 10.1039/c3cp50559f

Physical description of the impregnation mechanism of dye molecules in contact with porous electrodes

2013

Nadia Shahzad A.L. Alexe-Ionescu E. Tresso G. Barbero

Physics Letters A, Volume 377, Issue 12, Pages 915-919

Impact Factor: 1.626 | **Quartile:** 2 | **Citations:** 7

DOI: 10.1016/j.physleta.2013.02.012

Growth of Vertically Aligned Multiwall Carbon Nanotubes Columns

2013

Muhammad Imran Shahzad Nadia Shahzad M Giorcelli D Perrone A Virga P Jagdale M Cocuzza A Tagliaferro

Journal of Physics: Conference Series, Volume 439, 012008

Impact Factor: 0 | **Citations:** 12

DOI: 10.1088/1742-6596/439/1/012008

Study of carbon nanotubes based Polydimethylsiloxane composite films

2013

Muhammad Imran Shahzad Nadia Shahzad Alberto Tahliaferro M Giorcelli S Guastella M Castellino P Jagdale A Tagliaferro
Journal of Physics: Conference Series, Volume 439, conference 1, 012010

Impact Factor: 0 | **Citations:** 47
DOI: 10.1088/1742-6596/439/1/012010

Fabrication of Ni/Ti/Al Schottky Contact to N-Type 4h-Sic under Various Annealing Conditions 2013

Muhammad Yousuf Zaman Nadia Shahzad Diego Pugliese S Ferrero D Perrone L Scaltrito
Journal of Physics: Conference Series, Volume 439, conference 1, 012027

Impact Factor: 0 | **Citations:** 1
DOI: 10.1088/1742-6596/439/1/012027

Microfluidic housing system: a useful tool for the analysis of dye-sensitized solar cell components 2012

Adriano Sacco Nadia Shahzad Candidio Fabrizio Pirri A. Lamberti D. Pugliese A. Chiodoni S. Bianco M. Quaglio R. Gazia E. Tresso
Applied Physics A-Materials Science & Processing, Volume 109, Issue 2, Pages: 377-383

Impact Factor: 1.545 | **Quartile:** 2 | **Citations:** 22
DOI: 10.1007/s00339-012-7268-9

High efficiency dye-sensitized solar cells exploiting sponge-like ZnO nanostructures 2012

Adriano Sacco Nadia Shahzad Elena Maria Tresso Rossana Gazia Stefano Bianco Diego Manfredi Federica Cappelluti Shuai Ma
Physical Chemistry Chemical Physics, Volume 14, 16203–16208

Impact Factor: 3.829 | **Quartile:** 1 | **Citations:** 78
DOI: 10.1039/C2CP42705B

Electrical Diagnostics of Laser Ablated Platinum Plasma 2008

K.A. Bhatti Nadia Shahzad M.I. Shahzad A. Latif N. Parveen M. Khaleeq-ur-Rahman M.S. Rafique
Vacuum, Volume 82, Issue 11, Pages 1157-1161

Impact Factor: 1.114 | **Quartile:** 3 | **Citations:** 12
DOI: 10.1016/j.vacuum.2008.01.051

Conference Proceedings

Keynote Speaker: Flexible Photovoltaic Devices: Today's research and Field Applications 2024

Nadia Shahzad
Energy Conversion and Storage Technologies: Batteries, Solar Cells & Fuel Cells, res.country(177,)
Citations: N/A
DOI: Nil

Lanthanum-Doped Zinc Oxide Thin Films: A Study on Optoelectronic Properties 2023

Ayesha Tabriz Nadia Shahzad Saad Nadeem Sana Mehmood Naseem Iqbal Ghulam Ali Muhammad Imran Shahzad
Materials Proceedings (Presented at the 6th Conference on Emerging Materials and Processes (CEMP 2023), Islamabad, Pakistan, 22–23 November 2023.)
, res.country(177,)
Citations: N/A
DOI: <https://www.mdpi.com/2673-4605/17/1/9>

Numerical analysis of novel solar central receiver using different types of heat transfer fluids 2021

Hassan Bashir Naveed Ahmed Adeel Waqas Mariam Mahmood Nadia Shahzad
3rd International Conference on Sustainable Energy Technologies (ICSET 2021), res.country(177,)
Citations: N/A
DOI: 0000

Synthesis and Characterization of Cobalt redox couple based liquid electrolytes and quasi-solid electrolytes for applications in DyeSensitized Solar Cells 2021

Kashan Ahmad Nadia Shahzad Ahad Hussain Javed
3rd International Conference on Sustainable Energy Technologies, res.country(177,)
Citations: N/A
DOI: <http://uspcase.uetpeshawar.edu.pk/icset-2021/>

Design of a Diffractive Spectrum Splitting System for Lateral Multijunction Photovoltaics using Ray Tracing 2019

Behlol Nawaz Muhammad Rizwan Saleem Nadia Shahzad
Student Research Paper Conference 2019, res.country(177,)
Citations: N/A
DOI: <https://docs.google.com/viewer?url=http://www.ist.edu.pk/downloads/Student%20Research%20Paper%20Conference\2019/design-of-a-diffractive-sss-for-lateral-mj-pv-using-rt---srpc-template-bn-mrs-ns-camera-ready.pdf&embedded=true>

Hydrophobic Hole Transport Material For Perovskite Solar Cells <i>Farhan Ahmed Nadia Shahzad Bushra Batool Muhammad Imran Shahzad</i> 3rd INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & NANOTECHNOLOGY (MSNANO-19), res.country(177,) Citations: N/A DOI: N/A	2019
Synthesis and Characterization of Nickel Oxide Nanostructures for Perovskite Solar Cell Application <i>Anum Ameer Bushra Batool Nadia Shahzad Muhammad Imran Shahzad</i> 3rd INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & NANOTECHNOLOGY (MSNANO-19), res.country(177,) Citations: N/A DOI: N/A	2019
Sintering and pH effect on Low Temperature Processed Tin Oxide Nanoparticles for Perovskite Solar Cells Application <i>Bushra Batool Anum Ameer Farhan Ahmed Nadia Shahzad Muhammad Imran Shahzad</i> 3rd INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & NANOTECHNOLOGY, res.country(177,) Citations: N/A DOI: N/A	2019
Effectively Transparent Contacts With Low Temperature Reactive Silver Ink <i>Maria Kanwal Nadia Shahzad Salman Mansoor</i> International Conference on Renewable, Applied and New Energy Technologies ICRANET-2018, res.country(177,) Citations: N/A DOI: http://portals.au.edu.pk/ICRANET/Pdf_Files/180146.pdf	2018
Development of Al Thin Films with Enhanced Adhesion by Thermal Evaporation for Solar Thermal Reflectors Application <i>Muhammad Asad Muhammad Awais Farhan Ahmad Nadia Shahzad</i> International Conference on Nano-Composites and Multi-Functional Materials 2017, res.country(177,) Citations: N/A DOI: N/A	2017

Book Chapters

Nanostructured Electrodes for Emerging Solar Cells” in book "Nanomaterials in Energy Devices” <i>Nadia Shahzad</i> In: <i>CRC Press Publishers</i> , 2 Citations: N/A DOI: https://www.crcpress.com/Nanomaterials-in-Energy-Devices/Kiat/p/book/9781498763516	2017
---	------

Editorial Activities

Renewable Energy Reviewed Papers for Journals Impact Factor: 9.8	2025
Renewable Energy Reviewed Papers for Journals Impact Factor: 9.8	2024
Energy Technology Reviewed Papers for Journals Impact Factor: 3.8	2024
Journal of Energy Storage ScienceDirect.com by Elsevier Reviewed Papers for Journals Impact Factor: 8.9	2024
Reviewed Papers for Journals Impact Factor: 6	2024
Reviewed Papers for Journals Impact Factor: 1	2024

Journal of Cleaner Production Reviewed Papers for Journals Impact Factor: 11	2024
Journal of Energy Storage Reviewed Papers for Journals Impact Factor: 9.4	2024
Journal of Cleaner Production Reviewed Papers for Journals Impact Factor: 11	2024
Heliyon Reviewed Papers for Journals Impact Factor: 4	2024
Journal of Energy Storage Reviewed Papers for Journals Impact Factor: 9.4	2024
Heliyon Reviewed Papers for Journals Impact Factor: 4.0	2023
 Reviewed Papers for Journals Impact Factor: 0	2023
Kuwait Journal of Science Reviewed Papers for Journals Impact Factor: 0.5	2023
Journal of Energy Storage Reviewed Papers for Journals Impact Factor: 9.8	2023
Applied Surface Science Advances Reviewed Papers for Journals Impact Factor: 6.2	2023
Heliyon Reviewed Papers for Journals Impact Factor: 4.0	2023
Energies Reviewed Papers for Journals Impact Factor: 3.2	2023
Journal of Engineering and Applied Science Reviewed Papers for Journals Impact Factor: N/A	2023
Crystals Reviewed Papers for Journals Impact Factor: 2.7	2022
 Reviewed Papers for Journals Impact Factor: 3.748	2022
 Reviewed Papers for Journals Impact Factor: -	2022
 Reviewed Papers for Journals Impact Factor: 5.9	2020
 Reviewed Papers for Journals	2020

Impact Factor: 5.34

2018

Reviewed Papers for Journals

2017

Reviewed Papers for Journals

Impact Factor: 0