



## Program at a Glance

### Day 1

<b>Date</b>	<b>Time</b>	<b>Events</b>
<b>07 May 2026</b> <b>Thursday</b>	09:00 – 10:00	: Registration and Reception
	10:00 – 11:00	: Inaugural Ceremony
	11:00 – 11:30	Refreshment
	11:30 – 13:00	: Session I: Planery
	13:00 – 14:00	Prayer and Lunch Break
	14:00 – 15:30	Session II: Information and Communication Technology Session III: Theoretical and Computational Science
	15:30 – 17:00	: Poster Session
	17:00 – 18:30	: Session IV: Nuclear Energy & Reactor Engineering : Session V: Electronics and Circuit Systems
	19:30 – 21:30	: Dinner

### Day 2

<b>Date</b>	<b>Time</b>	<b>Events</b>
<b>08 May 2026</b> <b>Friday</b>	9:30 – 11:00	: Session VI: Environmental Science & Health and Radiation Physics Session VII: Materials Science
	11:15 – 12:45	: Session VIII: Biomedical Engineering Session IX: Nanotechnology
	12:45 – 14:30	: Prayer and Lunch Break
	14:30 – 16:00	: Session X: Robotics and Artificial Intelligence Session XI: Renewable and Green Energy
	16:30 – 17:30	: Closing and Award Ceremony
	17:30 – 18:00	: Annual General Meeting (AGM)

Timings are in Bangladesh Standard Times



## Program in Details

### International Conference of Electronics and Informatics 2026

07 - 08 May 2026

Venue: Atomic Energy Centre, Dhaka

#### Day-1: 07 May 2026 (Thursday)

##### *Inaugural Ceremony*

- Venue* : Auditorium, Atomic Energy Centre, Dhaka
- Date and Time* : 07 May 2026 at 10:00 am  
**Recitation from Holy Quran**
- Welcome Address* : **Prof. S. M. Mostafa Al Mamun, PhD**  
Vice President, Bangladesh Electronics and Informatics Society
- Address by Special Guest* : **M. Moinul Islam, PhD**  
Chairman, Bangladesh Atomic Energy Commission
- Address by Guest of Honor* : **Md. Anwar Hossain**  
Secretary, Ministry of Science and Technology
- Address by Chair* : **Prof. Rezaul Karim Mazumder, PhD**  
President, Bangladesh Electronics and Informatics Society
- Address by Chief Guest* : **Rehan Asif Asad**  
Adviser to the Prime Minister on  
Ministry of Posts, Telecommunications and Information Technology;  
and Ministry of Science and Technology
- Vote of Thanks* : **Mohammed Nazrul Islam Khan, PhD**  
General Secretary, Bangladesh Electronics and Informatics Society
- Refreshment**

##### **Session I: Plenary-I**

- Venue* : Auditorium, Atomic Energy Centre, Dhaka
- Time* : 11:30 - 13:00
- Chair* : Prof. Rezaul Karim Mazumder, PhD  
Dept. of Electrical and Electronic Engineering, University of Dhaka
- : Prof. S. M. Mostafa Al Mamun, PhD  
Dept. of Electrical and Electronic Engineering, University of Dhaka
- PL-01 : **Lead-free Perovskite-inspired Solar Cells for Future Photovoltaics**  
Prof. Tetsuo Soga, PhD  
Professor Emeritus  
Nagoya Institute of Technology, Gokiso, Showa, Nagoya 466-8555, Japan
- PL-02 : **Semiconductor Packaging: A Lucrative Second Entry Point for Bangladesh into Semiconductor Manufacturing**  
Prof. A. S. M. A. Haseeb, PhD  
Dept. of Nanomaterials and Ceramic Engineering (NCE)  
Bangladesh University of Engineering and Technology (BUET)



## Session II: Information and Communication Technology (ICT)

- Venue : Classroom, Atomic Energy Centre, Dhaka
- Time : 14:00 - 15.30
- Chair(s) : Prof. Md. Abdur Razzaque, PhD  
Dept. of Computer Science and Engineering, University of Dhaka
- : Prof. Md. Azad Hossain, PhD  
Dept. of Electronics and Telecommunication Engineering  
Chittagong University of Engineering & Technology
- Invited Lecture : **Responsible AI: A Framework for Ethical Intelligent Systems**  
IL-01 Ahmedul Kabir, PhD  
Associate Professor  
Institute of Information Technology, University of Dhaka

### Contributory Papers:

Abstract ID	Title	Author Name(s)
ICT01-070	Effects of Ti <sup>4+</sup> doping on structural, optical, magnetic and electrical properties of Ni-Mn ferrites for switching, RF natural filter and EMI suppression	Md. Hedeatul Kabir Anik, Hasan Khaled Rouf, Rimi Rashid, Sheikh Manjura Haque, and Mohammed Nazrul Islam Khan
ICT02-081	Enhancing Detection Reliability: An Explainable Ensemble-Based Approach for Breast Cancer Prediction	Hasan Khan, Md. Alamgir Hossain, and Md. Samiul Islam
ICT03-090	Decoding Cardiovascular Risk Factors: An Explainable Machine Learning Approach for Heart Disease Prediction using CDC BRFSS 2020 Data	Palash Mondol, Md. Palash Bin Faruque, Saiful Islam, Md. Abdul Khalek, Md. Samiul Islam, and Md. Alamgir Hossain
ICT04-091	An Explainable Machine Learning Approach for Diabetes Diagnosis Using Mutual Information-Based Feature Selection	Palash Mondol, Md. Palash Bin Faruque, Saiful Islam, Md. Abdul Khalek, Md. Samiul Islam, and Md. Alamgir Hossain
ICT05-144	A Cloud-Enabled IoT Framework for Smart Irrigation, Environmental Monitoring and Intrusion-Aware Plant Protection	Chiranjit Das, Aung KoKo, and Tofael Ahmed
ICT06-208	Golden Ratio Based DGS Microstrip Antenna for WiFi Applications	Jannatul Ferdouse, Md. Firoyz Ahmed, and M. Hasnat Kabir
ICT07-210	A Compact Tri-Band Microstrip Patch Antenna for Multi-Depth Breast Tumor Detection	Md. Sajid Ahmed, Md. Mehedi Hassan Shohag, Md. Jewel Rana, Md. Ashrafur Islam, and Laila Naznin



### Session III: Theoretical and Computational Science (TCS)

- Venue : Auditorium, Atomic Energy Centre, Dhaka
- Time : 14:00 - 15.30
- Chair(s) : Prof. Md. Ismail Jabiullah, PhD  
Dept. of Computer Science and Engineering  
Independent University of Bangladesh
- : Abu Zafur Ziauddin Ahmed, PhD  
Assistant Professor and Chairman  
Dept. of Physical & Mathematical Sciences, Primeasia University, Dhaka
- Invited Lecture : **Electronic Band Structure and the Electronic Ground States of Solids**  
IL-02  
Prof. Saleh Hasan Nakib, PhD  
Dept. of Physics, University of Rajsahi

#### Contributory Papers:

Abstract ID	Title	Author Name(s)
TCS01-033	Wide-Bandgap Double Perovskites Rb <sub>2</sub> KScCl <sub>6</sub> and Rb <sub>2</sub> NaYCl <sub>6</sub> for UV Optoelectronic Applications: A First-Principles Study	Md. Al Mubin Hossain, Nayeemur Rahman, and Mohammad Abdur Rashid
TCS02-053	A DFT and SCAPS 1D Modelling Devices of Novel Double Perovskite Halides (Tl <sub>2</sub> AgAsX <sub>6</sub> ; X = Cl, I) for Energy Conversion Approaches	R. M. Tanvir, Md. Al-Amin, A. Rayhan, and S. Mahmud
TCS03-077	Electronic, Optical, and Various Physical Properties of Half-metallic Ferromagnetism βVO <sub>3</sub> (β = Y, La): A DFT Insights	M. E. Haque Akonda, S. Karmakar, A. Ghosh, M. A. Hasan, and M. M. Rahaman
TCS04-138	First-Principles Study of Mixed-Halide Perovskites RbSrBr <sub>3-x</sub> I <sub>x</sub> : Tuning Physical Properties through Halide Alloying	Mst. Tanjum Islam, Ratna Saha, and Rinku Majumder
TCS05-238	Substituent Effects on O–H Bond Dissociation Energy in Phenolic Antioxidants: A DFT Approach	Jewel Hossen, Shahriar Siam, Md. Forhad Babu, Tanu Dey, Md. Mazharul Islam, Md. Masum Iqbal, Apel Mahamud Rabby, and Md. Tanvir Rashid Rezvi
TCS06-252	DFT Study of Safe Methotrexate Delivery Using Pristine and Heteroatom-Doped Fullerene Nanocages for Cancer Therapy	M. Rejaul Karim and A. K. M. Akther Hossain
TCS07-256	Mechanisms of Light-Ion-Induced Nuclear Reactions: A Comparative Study Using INC and TALYS	Monira Jannatul Kobra



## Session IV: Nuclear Energy and Reactor Engineering (NERE)

- Venue : Auditorium, Atomic Energy Centre, Dhaka
- Time : 17:00 – 18:30
- Chair(s) : Prof. Md. Mamunur Rashid, PhD  
Dept. of Electrical and Electronic Engineering, University of Scholars
- : Mohammad Mizanur Rahman, PhD  
Director & Chief Scientific Officer  
Institute of Energy Science, AERE, Savar
- Invited Lecture : **Nuclear in Everyday Life: From Misconception to Clean Energy Future**  
IL-03  
Mohd Syukri Yahya, PhD  
Project Director (Nuclear)  
Technology & Engineering Dept.  
Tenaga Nasional Berhad (TNB) Power Generation Company (Genco),  
Malaysia

### Contributory Papers:

Abstract ID	Title	Author Name(s)
NERE01-035	Neutronics Analysis of Spent Nuclear Fuel Dry Cask Storage of VVER-1200	Kazi Labiba Rahman Aurna, Roshlan Rahman Dipto, and Abdus Sattar Mollah
NERE02-064	Designing Bangladesh's Joint Nuclear-Intelligence Fusion Cell (JIFC): A Layered Machine-Learning Framework for Predictive Border Interdiction and Regulatory Support	Mhamudul Hasan Sami, Sajib Islam Mahin, Mahbub Murshed, and Afia Fahmida Chowdhury
NERE03-082	Neutron Imaging for nuclear and radiological security in Bangladesh—Prospects and Possibilities	Nazifa Tasnim, Mhamudul Hasan Sami, and Sadia Noushin Promi
NERE04-085	Integrated Subchannel and Conjugate Heat Transfer Analysis of NuScale Type Small Modular Reactor Using ANSYS and COMSOL Software	Sharmin Sultana Sheuly, Sadia Islam Meem, and Noor-Al-Din
NERE05-157	Neutronic Impact of SiC Nanoparticle-Reinforced E110 Cladding for VVER-1200 Fuel Assembly Using OpenMC	Purba Meghwati Nakshi, Meherun Nessa, and Abdus Sattar Mollah
NERE06-158	Comparative Thermal Performance of Conventional E110 and E110-5%SiC Nanocomposite Cladding for VVER-1200 Fuel Rods	Meherun Nessa, Purba Meghwati Nakshi, and Abdus Sattar Mollah
NERE07-250	Load Rejection Transient Analysis of VVER-1200 Reactor at Different Power Levels Using PCTTRAN	Md. Marufur Rahman Reyad, Noor Zahin, Kristy Gourab Sinha, Samaila Islam, and Md Asaduzzaman



## Session V: Electronics and Circuit Systems (ECS)

- Venue : Classroom, Atomic Energy Centre, Dhaka
- Time : 17:00 – 18:30
- Chair(s) : Prof. Habibur Rahman, PhD  
Dept. of Electrical and Electronic Engineering, University of Dhaka
- : Md. Anzan-uz-Zaman, PhD  
Head & Principal Scientific Officer, Robotics Instrumentation and Control  
Division, Institute of Electronics, AERE, Savar
- Invited Lecture : **The Future of Semiconductors: Device Innovation Driving the AI  
IL-04 Revolution**
- Mainul Hossain, PhD  
Associate Professor  
Dept. of Electrical and Electronic Engineering, University of Dhaka

Contributory Papers:

Abstract ID	Title	Author Name(s)
ECS01-018	Simulation and Implementation of a Real-Time Color Detection System using ESP32 with Color Sensor and RGB LED	Md. Farhat Anjam, Anika Sultana Anu, Jannat Jarin, Most. Fatematuz Johora Chadni, and Muhibul Haque Bhuyan
ECS02-021	Analytical Modeling and Potential Profile Verification of a P-Type Cylindrical Gate Junction-less Accumulation Mode MOSFET (CGJAMM) with Stack Oxide	Md Nahiduzzaman Roni, Nahian Sadat, and Md Mohsinur Rahman Adnan
ECS03-029	Active control of topological acoustic wave propagation at a super cell interface via non-Hermitian modulation	Md. Shuzon Ali
ECS04-087	FPGA-Based High Performance Low-Cost IC Tester Using GLFSR-Driven Pattern Generation	Mohammad Shawkat Ullah Riaz, Md. Liakot Ali
ECS05-088	Performance Analysis of Transition Metal Dichalcogenide (TMD) Based Transistors Using TCAD	Md. Shafin Rahman, Mahmudul Hasan, Md. Hasibul Islam, and Khairul Alam
ECS06-116	Startup Performance of UAV BLDC Motor Drives using Soft-Start Technique Under Open-Loop Control	Tahid Nur Rahman, A. K. M. Mohitul Hassan, A M Saadnan Tahsin, Muhibul Haque Bhuyan, Md. Kamrul Hassan, Md. Amzad Hossain, and M. M. R. Biswas
ECS07-117	A 400 Hz Multilevel Inverter with Optimized Filter Design for Aviation Application	Wahid Tausif, MD Bayazid, M. M. Hasan, M. M. H. Bhuyan, M. K. Hassan, M. A. Hossain, M. Faruk Hossain and M. M. R. Biswas



## Day-2: 08 May 2026 (Friday)

### Session VI: Environmental Science & Health and Radiation Physics (ESHRP)

- Venue : Auditorium, Atomic Energy Centre, Dhaka
- Time : 9:30 – 11:00
- Chair(s) : Yeasmin Nahar Jolly, PhD  
Director  
Atomic Energy Centre, Dhaka
- : A.K.M. Mizanur Rahman, PhD  
Chief Scientific Officer, Health Physics Division  
Atomic Energy Centre, Dhaka
- Invited Lecture : **Reducing Climate Mitigation Costs through the Role of Renewable & Modern Nuclear Technology**  
IL-05
- M. Safiur Rahman, PhD  
Chief Scientific Officer & Head, Chemistry Division  
Atomic Energy Centre, Dhaka

#### Contributory Papers:

Abstract ID	Title	Author Name(s)
ESHRP01-028	Detection and Locational Identification of Plastic Wastes in the River by Remote Sensing and Machine Learning in Dhaka (Buriganga River)	Arnob Roy and Biroti Das
ESHRP02-044	Visualizing Ionizing Radiation: Design and Real -Time Validation of a Hybrid Prototype Cloud Chamber Using an Image Processing Algorithm	Pronojit Karmakar, Anik Evan Hashem Shuvo, Ishfaq Elahi, and Abdus Sattar Mollah
ESHRP03-051	Assessment of Lead Contamination and Associated Health Risk in Drinking Water of Batiaghata Union	Md. Faisal Ferdous, Kazi Md. Asif, Md. Hafijur Rahman Sabbir, S.M. Nabid Hassan Akib, and Md. Salman Ferdous
ESHRP04-122	PM <sub>2.5</sub> -bound Heavy Metals at Urban and Rural Location in Bangladesh: Source Apportionment and Health Risk Assessment	Rakibul Omar, Siful Islam Rashed, Md Shohel Rana, Shahid Uz Zaman, Mohammad Moniruzzaman, and Abdus Salam
ESHRP05-204	Environmental Stress, Green Urban Adaptation, and Resilience Among Climate Migrants in Coastal Bangladesh	Khondoker Mahmud Parvez
ESHRP06-235	Radiation-induced Modification of Plastic Waste for the Removal of Crystal Violet	Md. Nabil Sardar, Nazia Rahman, Shahnaz Sultana, Md. Firoz Mortuza, and Md. Tauhidul Islam Tanim
ESHRP07-259	Electron Paramagnetic Resonance Dosimetry of Potassium Tartrate Hemihydrate for Fractionated Radiotherapy	Sayed Tahlil Hossain and Norehan Mohd Nor



## Session VII: Materials Science (MS)

- Venue : Classroom, Atomic Energy Centre, Dhaka
- Time : 9:30 – 11:00
- Chair(s) : Prof. A. K. M. Akther Hossain, PhD  
Dept. of Physics, Bangladesh University of Engineering and Technology
- : Prof. Md. Mahbubur Rahman Bhuiyan, PhD  
Dept. of Physics, Jahangirnagar University
- Invited Lecture : **MXenes: Emerging Frontiers in Advanced 2D Materials and Their  
IL-06 Multifunctional Applications**
- Prof. Md. Mohi Uddin, PhD  
Dept. of Physics, Chittagong University of Engineering & Technology

### Contributory Papers:

Abstract ID	Title	Author Name(s)
MS01-032	Effect of Substrate Type on the Growth and Electrical Characteristics of $\text{Cu}_3\text{N}$ Thin Films Prepared by Reactive RF Sputtering	Shanta Majumder, Katsuhiko Saito, Qixin Guo, Md Abdul Majed Patwary, and Tooru Tanaka
MS02-110	Analysis of the Structure and Optical performance of Nitrogen(N) Doped ZnS Quantum Dots (QDs)	Md. Atikur Rahman, Mohammad Mahfuz Alam, and Md Arif Ul Islam
MS03-148	Effects Of $\text{MoO}_3$ Additive on The Microstructural, Magnetic and Transport Properties Of $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ Ceramics	Somana Das and Sajal Chandra Mazumdar
MS04-223	Cobalt-Induced Enhancement of Ferroic Properties in Bi-Eu-Mn Ferrite: Structural and Magnetic Insights	J. H. Bhuiyan, M. A. Taher, Md. Sarowar Hossain, Mahbubur Rahman, N. Y. Tanisa, M. M. Billah, and M. N. I. Khan
MS05-242	Platinum-tetraphenyl Porphyrin Electrocatalyst for Anodic Chlorine Evolution Reaction: Computational DFT Study	Jewel Hossen, Md. Forhad Babu, Naoki Nakatani, Md. Mosfiqur Rahman Maruf and Md. Saiful Islam
MS06-262	Phase Evolution-Driven Magnetic Behavior in $\text{Gd}^{3+}$ Substituted Ni-Zn Ferrites: A Rietveld-Based Quantitative Study	Jinnatun Nesa and A. K. M. Akther Hossain
MS07-263	Sustainable, Green Synthesis of Carbon Quantum Dots to Produce UV-blocking and Biodegradable Food Packaging	Saiful Islam, Ashequl Alam Rana, Mohammad Mainul Karim, and Tasrina Rabia Choudhury



## Session VIII: Biomedical Engineering (BME)

- Venue : Auditorium, Atomic Energy Centre, Dhaka
- Time : 11:15 – 12:45
- Chair(s) : Prof. Abu Sayem Koral, PhD  
Dept. of Physics, Bangladesh University of Engineering and Technology
- : Prof. Muhammad Abdul Kadir, PhD  
Dept. of Biomedical Physics & Technology, University of Dhaka
- Invited Lecture : **Advanced Diagnosis of Cartilage Damage in Knee Joint by Applying AI IL-07 in AE Technique**
- Prof. Towhidul Islam Khan, PhD  
Dept. of Biomedical Engineering, Graduate School of Advanced Health Sciences, Saga University, Saga, Japan

### Contributory Papers:

Abstract ID	Title	Author Name(s)
BME01-041	A Step-by-Step Machine Learning (ML) Approach for Early Diabetic Disease Prediction	Md. Mahmud Hasan, Md. Ismail Jabiullah and SM Muraduzzaman
BME02-067	Numerical Analysis and Optimization of a Quasi-D-Shaped PCF-Based SPR Biosensor for Malaria Detection	Md. Jarjis Mondal and Mohammed Imamul Hassan Bhuiyan
BME03-074	Comparative Study of THz Microstrip Antenna Materials for Biomedical Applications	Mahjabin Mobarak, Mst. Arifa Khatun, Md. Mahmudul Hasan Tonmoy, Hasibul Hossain, and Mohammad Farhan Tanvir
BME04-092	Integrated Differential Expression and Functional Enrichment Analysis Reveals Core Dysregulated Pathways in Pancreatic Ductal Adenocarcinoma	Maimoona Hossain Moumita, Faya Zur Rahman, Fatema Jannat, and Acramul Haque Kabir
BME05-205	Comparative Evaluation of CNN and Transfer Learning Architectures for Melanoma Detection	Md. Jubayel, Md. Muzahidul Islam, Md. Atiqur Rahman Anik, and Md. Jamiul Islam
BME06-217	A Deep Learning-Based Approach for Brain Tumor Classification Using VGG16 from the Dataset of Brain MRIs	Sher Shermin Azmiri Khan and Uzzal Kumar Acharjee
BME07-230	Synthesis and Characterization of Bismuth Oxide (Bi <sub>2</sub> O <sub>3</sub> ) Nanoparticles for Application as a Computed Tomography (CT) Contrast Agent	Md. Zahin Hasan Monim, Hasan Mehdi, Md. Mominul Islam, Md Nahid Hossain, Sheikh Manjura Haque, and Arup Kumar



### Session IX: Nanotechnology (NT)

- Venue : Classroom, Atomic Energy Centre, Dhaka
- Time : 11:15 – 12:45
- Chair(s) : Engr. Sheikh Manjura Hoque, PhD  
Chief Scientific Officer & Head, Materials Science Division  
Atomic Energy Centre, Dhaka
- : Prof. Imtiaz Ahmed, PhD  
Dept. of Electrical and Electronic Engineering, University of Dhaka
- Invited Lecture : **Orthoferrite Perovskites for Advanced Electrochemical Energy Storage Applications**  
IL-08  
Prof. Mohammed Abdul Basith, PhD  
Dept. of Physics, Bangladesh University of Engineering and Technology

#### Contributory Papers:

Abstract ID	Title	Author Name(s)
NT01-005	Field-Free Fast and Energy Efficient Magnetization Switching of Ferromagnetic Nanodevice	Md. Torikul Islam, YaDong Liu, Min Tai, and Xiangrong wang
NT02-066	Pool-Boiling Enhancement of Low-GWP R-1234yf using Al <sub>2</sub> O <sub>3</sub> Nanoparticle	Rawnak Tabassum, Nabil Alfarrazi Rachmat, Kosuke Kubota, Edgar Santiago Galicia, and Akio Miyara
NT03-124	Investigation of SrO nanoparticles for water splitting applications	Md. Rishad Ahmed, Tarifuzzaman Riyad, Md. Sabbir Uzzaman Khan, Muhammad Shihab Khan, Nur Hossen Asif, Tusar Saha, Md. Nurul Kabir Bhuiyan, Md. Sarowar Hossain Md. Abdullah Al Nahid, Sheikh Monjura Hoque, Mohammad Jellur Rahman, Md. Alamgir Hossain, and Rezaul K Siddiqui
NT04-159	Detection of Transient Neutral Heavy Metal Atom in Aqueous Solution: A DFT Inquisition	Tamal Chakrabarty and Jahirul Islam Khandaker
NT05-212	Blood-Based Ternary Hybrid Nanofluid Flow with Radiation and Slip Effects in a Porous Sinusoidal Cylinder	Nasrin Sultana, Md. Oliullah, Jahangir Alam, and M.G. Murtaza
NT06-232	Thickness Optimized Angle Insensitive Structural Color Filter for RGB Spectrum.	Zahidul Salman, Sanjana Tajrin, Md. Shariful Islam, and Md Mohsinur Rahman Adnan
NT07-278	Luminescent Down-Conversion in self-powered ZnVO <sub>2</sub> /CdGa <sub>2</sub> O <sub>3</sub> photodetectors	Md. Rabiur Rahaman and M. Azizar Rahman



## Session X: Robotics and Artificial Intelligence (RAI)

- Venue : Auditorium, Atomic Energy Centre, Dhaka
- Time : 14:30 - 16.00
- Chair(s) : Shamim Ahmed Deowan, PhD  
Associate Professor  
Dept. of Robotics and Mechatronics Engineering, University of Dhaka
- : Asief Javed, PhD  
Assistant Professor, Dept. of Mechatronics Engineering  
Khulna University of Engineering & Technology
- Invited Lecture : **From Innovation to Responsibility: Building Trustworthy and Human-Centric AI for Sustainable Digital Futures**  
IL-09
- Prof. Tahsina Farah Sanam, PhD  
Institute of Appropriate Technology  
Bangladesh University of Engineering and Technology

### Contributory Papers:

Abstract ID	Title	Author Name(s)
RAI01-062	Public Awareness and Expectations of Accelerated & Reliable MRI Imaging Using Machine Learning	Prantik Baroi, Shrayasee Mandal, Ifreet Zareef Hossain, Nafisa Siddiquee, Mahir Mohtab Ayman, and Juena Ahmed Noshin
RAI02-086	A Framework for Utilizing Big Data Analytics and Machine Learning to Address Urban Traffic Congestion in Dhaka, Bangladesh	M Riazul Jannat Tonmoy, Nosrath Jahan, Ayon Kumar Ghosh Pappu, Partha Sharothi Mazumder, and Md. Mortuza Ahmmed
RAI03-131	Intelligent Threat-Detection Robot for Metal, Cable, and Explosive Hazards	Md. Meftahul Haque, Md. Sadik Al Rayhan, Hasibur Rahman Rabib, Mehedi Hasan, Md. Jewel Rana, Ashikur Rahman, and Mahadi Hasan
RAI04-142	Climate-Adaptive Energy Prediction for Electric Vehicles in Bangladesh: An LSTM Approach	Arnob Aich Anurag, Md. Nasif Rafidi, Shamiul Islam, Trisha Sarker, and Samiha Islam Abrita
RAI05-155	A Comparative Analysis of Ensemble Learning Models for Early-Stage Cardiovascular Disease Prediction	Shek Armanul Haque and Md. Mortuza Ahmmed
RAI06-246	Facial Expression Recognition from Video Using Haar Cascade and Convolutional Neural Networks	Sher Shermin Azmiri Khan and Mst. Shapla Khatun
RAI07-257	Design and Simulation of a System Identification and LQR Control of a Propeller-Operated Balancing Beam Using MATLAB/Simulink	Nuzhat Anwar, Jui Chakma, Fardin Ahmed, Ahmad Asif, Syed Areeb Ashraf, and Muhibul Haque Bhuyan



## Session XI: Renewable and Green Energy (RGE)

- Venue : Classroom, Atomic Energy Centre, Dhaka
- Time : 14:30 - 16.00
- Chair(s) : Prof. Engr. Muhibul Haque Bhuyan, PhD  
Dept. of Electrical and Electronic Engineering, American International University of Bangladesh
- : Shameem Ahmad, PhD  
Associate Professor, Dept. of Electrical and Electronic Engineering  
BSRM School of Engineering, BRAC University
- Invited Lecture : **Progress, Challenges, and Opportunities of Renewable Energies in**  
IL-10 **Bangladesh**
- Shahriar Ahmed Chowdhury  
Founding Director, Centre for Energy Research  
United International University, Dhaka, Bangladesh &  
Chairman, Center for Renewable Energy Services Ltd. (CRESL)

### Contributory Papers:

Abstract ID	Title	Author Name(s)
RGE01-030	Analyze a Highly Efficient MoO <sub>3</sub> -Based RbGeI <sub>3</sub> Perovskite Solar Cell	Imon Shahriar, Tribid Mazumder, Shanmim Karim Tonmoy, Md. Sozol Hossain, and Bibhas Manna
RGE02-260	Analysis of Yearly Energy Yield and Comparative Evaluation of Actual, Pvsyst-Simulated and Machine Learning-Predicted Data of A 150 Kw Rooftop On-Grid Solar Photovoltaic System in Bangladesh	Rafratin Islam and Md. Atik-Uz-Zaman Atik
RGE03-129	Impact of One-Degree Celsius Temperature Rise on Energy Consumption in South Asian Countries Using LSTM Network	Nusrat Jahan Rushni, Nowshin Faria, and Sampad Ghosh
RGE04-245	Enhanced Oxygen Evolution Reaction Performance of PEDOT: PSS-Coated NiCoFe Layered Double Hydroxide on Nickel Foam.	Tajmin Sultana, Sakibul Islam, Md. Romzan Ali, Md. Ikram Hossain, Alif Hossain, Sheikh Abdullah Al Mamun, Mohamed Aly Saad Aly, and Md. Zaved Hossain Khan
RGE05-247	Design and Optimization of Antimony Selenide (Sb <sub>2</sub> Se <sub>3</sub> ) Based Thin Film Solar Cell	Hafizur Rahman Alve and Himangshu Ranjan Ghosh
RGE06-251	Computational Investigation of Polyene Carotenoids for Dye-Sensitized Solar Cells Using DFT and TD-DFT with Experimental Validation	Md. Arman Arafat and Jewel Hossen
RGE07-265	Numerical Simulation and Performance Optimization of Lead-Free Cs <sub>2</sub> AgInBr <sub>6</sub> Perovskite Solar Cells using SCAPS	Sonet Kumar Saha and A. K. M. Akther Hossain



## Poster Session: Poster Presentation (PP)

Date & Time : 07 May 2024; 15:30 – 17:00

Venue AECD Premises

List of Posters:

Abstract ID	Title	Author Name(s)
PP001-ICT039	A Low-Cost IoT Framework for Poultry Automation and Management in Bangladesh	Jannatul Ferdaous Elma and Md. Mahafuzur Rahman Mitul
PP002-ICT042	An Automation System to Improve the Quality of Government Services for Accountability to the People in the Housing Sector	Md. Mahmud Hasan, Md. Ismail Jabiullah, and SM Muraduzzaman
PP003-ICT048	Dual Regression Modeling for House Price Estimation and Weather Forecasting in C	Sabbir Ahmed and Rezvi Shahariar
PP004-ICT057	Observations on Demand–Generation Imbalances: A Case Study on Forecasting Errors and Corrective Strategies for July 2025	Md. Muzahidul Islam, Md. Jamiul Islam, and Sadia Islam
PP005-ICT068	MEDICARE: An Integrated System for Streamlining Patient-Provider Communication and Medical Records	Juboraj Sarker, Md Musfique Anwar, and Md. Ismail Jabiullah
PP006-ICT069	Design and Developed an Android App 'Helpmate' for Human Health Safety and Utility	Juboraj Sarker, Arif Mahmud, and Md. Ismail Jabiullah
PP007-ICT071	AI-Driven Soil Salinity Monitoring for Coastal Agriculture	Alfi Rahman Rani
PP008-ICT083	Gamifying Cricket Coaching: An AI-Based Real-Time Training Platform for Young Players	Kazi Fabiha Golam Liya, Towsif Chowdhury Rajin, Syeda Shabnam Afroze Rumi, and Md. Ismail Jabiullah
PP009-ICT093	Design and Characterization of a Minkowski Fractal Patch Antenna for Multiband Wireless and Radar Systems	Estiaque Ahamed, Iffat Jahan, Aminur Rahman, and Sadia Islam
PP010-ICT094	Amar-Porichoy: Rural Healthcare Data Access System	Rabius Sani Jabiullah, Prianika Akter, and Khandakar Nur Md. Shakil
PP012-ICT186	Spin-Dependent Transport and Low-Power Device Physics for Information Technologies in Bangladesh	Md. Tasnimul Khair Eashan, Redowan Ahmed, Kazi Arman Alam, Arif Jawad, MD. Reezwanul Haque Eashan, Koushik Biswas Arko, and Md Mortuza Ahmmed
PP013-ICT228	Design and Performance Analysis of a Multi-Slotted Microstrip Patch Antenna Array for mm Wave IoT Applications	Rakibul Hasan Masum, Md. Sajid Ahmed, Md. Mehedi Hassan Shohag, Md. Ashraful Islam, and Sujan Chandra Roy



PP014-ICT229	Design and Optimization of a Triple-Slotted Hexagonal Graphene Patch Antenna for IoT Applications in the THz Band	Jubayer Khan Hridoy, Rakibul Hasan Masum, Nobina Akter Mim, Md. Zabid Hasan, and Md. Ashraf Islam
PP015-ICT279	Blockchain for Supply Chain Transparency and Governance in Bangladesh's Export Industries	M Riazul Jannat Tonmoy, Nosrath Jahan, Ayon Kumar Ghosh Pappu, Partha Sharothi Mazumder, and Md. Mortuza Ahmmed
PP016-RAI014	Development of an Arduino-Based Autonomous Navigation Robotic Car with Triple Ultrasonic Sensors	Lincoln Podder and Muhibul Haque Bhuyan
PP017-RAI040	Development of a Hydro dynamically Stable Underwater ROV Equipped with FPV Vision and Robotic Arm	Afran Hossan Reaz, Md. Mahafuzur Rahman Mitul, Fahad Raihan Saquib, and Sunjida Mushfiq Nova
PP018-RAI043	Smart IoT-based water tank automation system using ultrasonic and temperature sensors with remote monitoring	Hassan Jubair, Mithela Mehenaz, Md. Nurunnabi Mollah, Abid Ahasan, and Md. Merajul Islam
PP019-RAI097	Exploring the Use of Robotics and Automation in the Ready-Made Garment (RMG) Industry to Improve Productivity and Sustainability in Bangladesh	Tashin Islam, Arizit Chaki Artha, Sazid Mohsin, Imtiaz Hossain Nahin, and Md Mortuza Ahmmed
PP020-RAI099	A Review on Artificial Intelligence Models for Sign Language Detection and Recognition	Afsa Nur Subhana subhana, Md Shihab Arman, Sabrina Islam Tesa, Md. Azmine Fayek, and Touhidur Rahman Pantho
PP021-RAI130	Intelligent Smart Helmet for Enhanced Rider Safety and Accident Response	Gazi Rabeya Islam, Md. Meftahul Haque, Abdullah Md. Shah Patowary, Md. Sazedul Hoq, Md. Nur Sabbir, Jui Akter, and Mehedi Hasan
PP022-RAI132	Energy-Efficient Hexapod Robot with Intelligent Servo Control and Adaptive Lighting	Shaiyek Md. Buland Taslim, Md. Meftahul Haque, Md. Raihan Jamil, Md. Nazmul Hasan, Mst. Umme Habiba, Musaib Ibna Anam Shibly, and Md. Afsharul Alam Siddique
PP023-RAI133	Smart IoT-Enabled Rooftop Plant Growth Monitoring and Automated Irrigation System	Zahid Kaiser, Md. Ariful Islam, Sheikh Abdur Rahman Seyam, Md. Meftahul Haque, Amanat Hossain, Mohammed Jahadul Islam, and Kazi Abdul Rob
PP024-RAI134	Design and Feasibility Analysis of a Residential-Scale High-Temperature Thermal Battery Using Sand as a Storage Medium	Mominul Islam Alif and Sunjida Mushfiq Nova
PP025-RAI135	Attention-Enhanced Deep Learning Framework for Robust Classification of Potato Leaf Diseases from Visual Data	Rakib Sheikh, Nafees Noor-a-Fattah, and Mazid Ishtique Ahmed
PP026-RAI136	Training and Evaluation of a CNN Model for Solar Panel Dust Detection	Nafees Noor-a-Fattah, Rakib Sheikh, and Mazid Ishtique Ahmed
PP027-RAI154	Peak Hour Traffic Detection System Using Machine Learning	Sadman Islam and Md. Mortuza Ahmmed



PP028-RAI161	Solar-Powered Autonomous Underwater Surveillance Vehicle (SP-AUSV)	MD. Nahiduzzaman, Arnob Aich Anurag, Rezvine Enjoy Nakib, and Md. Nasif Rafidi
PP029-RAI214	Statistical Analysis of AI VS Human Generated Code Using Code Metrics	Arnab Banarjee, Abdulla Al Fahad, Md. Abu Khahar Siddik, and Fatema Tuz Zohra
PP030-RAI253	Hate Speech Detection Performance Analysis using Machine Learning and Deep Learning Approaches: A Comparative Study with Transformer-Based Model	Ashraful Quaiyum Chowdhury Shafi, and Jarin Tasnim Ahmed Raisa
PP031-RAI267	An MLP Classifier to Classify Mental Stress Based on Screen-Time Usage with Explainable AI	Tawfiq Uddin Samin, Shaheer Tashfeen Najmee, Md. Sadekur Rahman, Md. Sohel Rana, Sadia Afrin Juie, and Md. Ismail Jabiullah
PP032-ECS013	Development of an Arduino-Based RADAR System for Object Detection and Distance Measurement	Abul Bashar Saurov, Md. Abdullah Anas, Md. Samiul Alim Safayet, Lubna Akhter, Osama Mobin Zuhar, and Muhibul Haque Bhuyan
PP033-ECS015	Development of an Automatic Door Opening System Using Arduino	Nasmin Suraya, Hafsa Akter, Mazharul Haque Chowdhury, Abir Hussain Shah Bipu, Afsana Khatun, Sakif Khan, and Muhibul Haque Bhuyan
PP034-ECS016	Development and Implementation of an Arduino-based Floor Cleaning Robot	Sumaiya Akter Shimu, Rakibul Hasan Shakil, Mohtasim-Ur-Rahman, Md. Siam-UI-Islam, Twaki Hasan, and Muhibul Haque Bhuyan
PP035-ECS017	Design and Implementation of an Arduino-Based Fire Identification and Rapid Extinguishing Car	Mubtasin Karim, Nazrul Islam, Samia Sharmin, Raisul Islam Rifat, Mohammed Tahsin Islam, and Muhibul Haque Bhuyan
PP036-ECS061	Basic Theoretical Backgrounds Needed to Grasp the Properties of Electrons and Photons	Sheikh Jafrul Hassan
PP037-ECS034	Design and Simulation of a Class A RF Power Amplifier for 900 MHz Applications	Md. Maksudur Rahman Turzo, Anas Rohan, and Mahee Rashid Chowdhury
PP038-ECS054	TremorTrack SeismoSense Based on Microcontroller: Earthquake Detector Alarm Using Accelerometer	Nasrullah Masud, Md. Atiqur Rahman Anik, Al - Ispahani Arif Jahan Jiko, and Md. Mobashir Mollah
PP039-ECS080	A Multi-Layered Architecture for Embedded Systems to Improve Reliability in Critical Infrastructure Monitoring in Bangladesh	Mubassir Islam Jimel, Kanij Fatema, Maruf Ahammed, Monami Maymuna, Sayda Samia Jaman Somiya, Tamim Hasan Apurbo, and Md. Mortuza Ahmmed
PP040-ECS100	Smart Pond Monitoring System for Edible Fish	Khalilur Rahman and Rubina Rahman



PP041-ECS125	Ultra Compact ENZ Electro-Absorption Modulator Based on a Graphene-ITO-TiO <sub>2</sub> Heterostructure	Anik Bhadra, Niloy Chowdhury, Nazmul Hasan, and Sharnali Islam
PP042-ECS128	Development of a Real-Time Vehicle Tracking System Using SIM808 and Arduino	Md. Saifur Rahman
PP043-ECS140	Electrohydrodynamic Propulsion System for Aerial Platforms	Md. Rabiul Alam, Md. Abu Sayid Haque, M.S. Manir, and Md. Anzan-Uz-Zaman
PP044-ECS146	Semiconductor, Superconductor, and Insulating Materials for Next-Generation Electronics and Energy Applications in Bangladesh	S.H.M.W Mostafa Ahan, Dil Afroza Akter, Nowshin Tasnim Nizum, and Md. Mortuza Ahmmed
PP045-ECS173	Pulsed Plasma Discharge Characteristics for Atmospheric Pressure Plasma Jet	Md. Abdullah Al Mamun, Mist Toma Khatun, Md. Atiar Rahman, Sabiha Sattar, Mohaimina Begum, and Akimitsu Hatta
PP046-ECS220	Design and Implementation of an Arduino-Based Electronic Voting Machine for Automated Vote Counting	Md Adnan Abid Mahim, Shuvo Ghosh, Joyeta Ghatak Roy Purba, Abu Nayeem Sadikur Rahman, Anique Kumar Das, S. M. Raisul Islam, and Muhibul Haque Bhuyan
PP047-ECS227	Development of Smart Water Quality Monitoring System for Environmental Monitoring	Mist Toma Khatun, Md. Abdullah Al Mamun, Md. Atiar Rahman, Sabiha Sattar, and Mohaimina Begum
PP048-ECS261	IoT-Based Smart Cattle Shed Ventilation and Cleanliness System	Md. Nahid Hossen, Md. Abdullah Al Nayeem, and Md. Niaz Mostakim
PP049-BME012	Design and Implementation of a Smart Obstacle Detection Glass using Arduino Uno for Enhanced Mobility for Visually Impaired People	Sushanto Vharati, MD. Abdullah All Fahad, Sabbir Ahmed Shimul, Md. Anisur Rahman, Asif Sayed, and Muhibul Haque Bhuyan
PP050-BME023	Classification of Valence and Arousal States from EEG Signals via Power Spectral Density and Machine Learning Approaches	Rabita Hasan
PP051-BME025	EEG-Based Emotion Recognition on the SEED Dataset using Hjorth Parameters and Supervised Machine Learning	Rabita Hasan
PP052-BME046	Application of Biomedical Engineering and Artificial Intelligence for Accessible Health Service Delivery in Bangladesh's Public Health Sector	Md. Nahid Kamal, Nasif kamal, S.H.M.W Mostafa Ahan, Md. Junaid Zahan Nahin, Adnan Akib and Md. Mortuza Ahmmed
PP053-BME055	Low-Cost Pocket-Sized ECG Monitoring Device with Deep Learning-Based Atrial Fibrillation Classification for Rural Healthcare	Md. Jubayel, Md. Muzahidul Islam, Md. Jamiul Islam, and Md. Atiqur Rahman Anik
PP054-BME089	Microbial Signatures and Functional Shifts in Upper Gastrointestinal Carcinoma: A Metagenomic Analysis	Dipto Kundu, Prothasha Rani Das, Provash Kumar Karmokar, Md. Alamgir Hossain, and Md. Samiul Islam



PP055-BME105	A Mixed-Methods Analysis of the Public Perception of Postpartum Psychosis on Reddit	Md Merajul Islam, Dr. Ajay Krishno Sarkar, Mohammad Abdul Motin, Hassan Jubair, Abid Ahasan, and Mithela Mehenaz
PP056-BME106	Edge-Based Respiratory Profiling: An Explainable Hierarchical Framework for Automated COPD Screening	Hassan Jubair, Abid Ahasan, Mithela Mehenaz, Nabomita Sarkar, Md. Nurunnabi Mollah, and Md Merajul Islam
PP057-BME127	Embedded Smart Medi-Alert System for Automated Medication Scheduling	Gazi Rabeya Islam, Md. Meftahul Haque, Tabassum Jahan Saiky, Pinto Chandra Pual, Jayed Shahriar, Shahidul Islam, and Md Ahsan Habib
PP058-BME156	Infrastructure Readiness as a Determinant of AI-Driven Healthcare Performance: A Data-Driven Study Toward Sustainable Health Systems	Ashfak Hossain, Md. Nahid Kamal, Mirza Zaid Bin Habib, Debashish Ghosh, Azizur Raahim, and Fatema Tuz Zohra
PP059-BME224	Developing a Drug Delivery Strategy as an Alternative to Conventional Invasive Stroke Treatment using Microfluidic Modeling	Arka Biswas Saikot, Adrita Dutta Roy, and Md Kowsar Alam
PP060-BME225	An Approach to Develop a Non-Invasive Therapeutic Strategy with Microfluidic Modelling for Cardiovascular Diseases	Adrita Dutta Roy, Arka Biswas Saikot, and Md Kowsar Alam
PP061-RGE031	Attention-Enhanced CNN-GRU Framework for Renewable Energy Forecasting from Grid-Tied Solar Power Station	Md. Rubel Ali Biwash, Shahana Sultana, and Mohaimina Begum
PP062-RGE047	Analysis of the Prospect and Challenges of Integrating Renewable Energy System into Bangladesh's National Grid for a Sustainable Energy Future	Tamanna Billa, M. Sakib Sadman Arian, Tamim Hasan Apurbo, and Md. Mortuza Ahmmed
PP063-RGE052	Modeling and Device Engineering of $Rb_2AuScBr_6/Rb_2AuScCl_6$ Lead-Free Perovskite Solar Cell	Md. Al-Amin, A. Haque, and S. Mahmud
PP064-RGE078	Achieving 35.39% Efficiency in Perovskite Solar Cells via Dual Absorber Layer Integration: A SCAPS-1D Simulation Study	M. M. Islam, Md. Al-Amin, A. Haque, and S. Mahmud
PP065-RGE084	Modeling the Efficiency of Solar-Driven Smart Microgrids in Rural Bangladesh Using Data-Driven Optimization Techniques	Shraboni Biswas Naboni, Bushra Kaiser, Tamim Hasan Apurbo, and Md. Mortuza Ahmmed
PP066-RGE098	Accelerated Bandgap Prediction and Materials Discovery in HOIP Solar Absorbers Using Machine Learning and Solid-State Physics	Md. Efatuazzaman Efat, Md. Saiful Islam, Md. Saymon Hosen Polash, and Sayed Md. Fazle Rabbi
PP067-RGE149	Analysis of Temperature-Dependent Performance in Lead Free $CuInS_2$ Quantum Dot Solar Cells for Tropical	Nooruddin Al Masud, Anto Thakur, Asit Debnath, and Saiful Islam Hridoy



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PP068-RGE171	Transition to Sustainable Energy as a Strategy for Coastal Industrial Development in Bangladesh	Ahmed Aahan Addin, Shahriar Sadib, Nurul Amin Khondoker, Arizit Chaki Artha, and Md. Mortuza Ahmmed
PP069-RGE193	Performance Optimization of Hybrid Solar-Wind Energy Systems Using Physics-Based Energy Models in Bangladesh	Md. Tahoshin Iftakhar, Nahim Amin, Asif Mahfuj, Tamim Hasan Apurbo, and Md. Mortuza Ahmmed
PP070-RGE218	BioSense Monitor: An IoT-Based Predictive pH and Temperature Monitoring System for Biogas Digesters	Md. Nazmun Nur, Samiul Ahsan Sajid, Afrin Tanzila Rabbani, and Effat Jahan
PP071-RGE219	Energy Conversion Physics in Hybrid Renewable Systems Integrating Solar, Wind and Storage Technologies in Bangladesh	Md. Faysal, Abdullah Al Arafat, Shayak Badiuzzaman Utsha, Sajjad Shah Alam Thrimon, Md. Tanzimur Rahamn, Arizit Chaki Artha, and Md. Mortuza Ahmmed
PP072-RGE240	Theoretical Investigation of Natural Carotenoid Dyes as Efficient Sensitizers for Dye-sensitized Solar Cells	Md. Sohan Alam, Jewel Hossen, Apel Mahamud Rabby, and Md. Mosfiqur Rahman Maruf
PP073-RGE241	Development of an Energy Generation System Using Piezoelectric Sensors	Md. Zeehad Bin Salim Ameer, Md. Maniruzzaman, and Rafia Nishat Tama
PP074-RGE258	Efficiency enhancement of a Perovskite solar cell with A:Si solar cell and BSF layer	Preetom Kanti Bor and Himangshu Ranjan Ghosh
PP076-NERE003	Comparative analysis of DNBR Correlations in the TRIGA Reactor	M H Altaf
PP077-NERE063	Advanced Nuclear Energy Control Systems for Enhanced Operational Safety in Bangladesh's Civilian Nuclear Programs	Maruf Ahammed, Mubassir Islam Jimel, Tawfiqul Hasan, Samiha Sultana, Enamul Hoque Samir, and Md. Mortuza Ahmmed
PP078-NERE095	Evaluation of Thermal Hydraulics Parameters of Subchannel of SMART Small Modular Reactor	Noor-Al-Din, Mhamudul Hassan Sami, Kristy Gourab Sinha, and Md Shamim Hassan
PP079-NERE139	Neutronic Performance of Accident Tolerant Fuel Coatings as a Function of Thickness in VVER-1200 Reactor	Fadia Jafrin Eshat, Pushpita Islam, Moskayet Mashreq, and Abdus Sattar Mollah
PP080-NERE162	Analysis of Thermal-Hydraulic Behavior of VVER-1200 Reactor in Rooppur NPP Using GeN-Foam	Syeda Umme Kulsum Sadia and Abdus Sattar Mollah
PP081-NERE281	Processing of ENDF/B-VIII.1 Nuclear Cross-Section Data Library using NJOY16 for High-Fidelity Neutronic Analysis of VVER-1200 Reactor at Different Operational Temperatures	Mohammad Taha Khan and Abdus Sattar Mollah



PP082-NERE166	Impact of Neutronic Performance in the Optimization of Nanofluid Concentration as the Coolant of VVER-1200	Pushpita Islam, Fadia Jafrin Eshat, Moskayet Mashreq, and Abdus Sattar Mollah
PP083-NERE168	Evaluation of Social Viewpoint and Feasibility of Small Modular Nuclear Reactors (SMRs) for Baseload Power Generation Across the Coastal Regions of Bangladesh	Sumaita Tasnim, Ahmed Aahan Addin, Sadiha Rahman, Shahriar Sadib, Arizit Chaki Artha, and Md. Mortuza Ahmmed
PP084-NERE170	Experimental and Theoretical Studies of Gamma-Ray Interaction Mechanisms in Composite Shielding Materials	Md. Nasim Ahmed, Nayemur Rahman, Najib Islam, Md. Yusuf Ahmed, Musfica Jabin, Tamim Hasan Apurbo, and Md Mortuza Ahmmed
PP085-NERE175	Nuclear physics research supporting radiation safety, nuclear medicine, and energy planning in Bangladesh	Yousha Inb Ashraf, Saifullah Mahdi, Azamain Ahmed Alvee, Zarin, Musfika; Tanisha Mahzabin Tayeen, Tamim Hasan Apurbo, and Md Mortuza Ahmmed
PP086-NERE190	Detector Physics and Instrumentation Development for High-Energy Experiments and Applied Research in Bangladesh	Sumaya Nahar; Sheikh Ashraful Islam Ani, Faria Islam, Sayed Tanvi Hassan Mahibi, Md. Mokaddesh Ullah, Arizit Chaki Artha, and Md Mortuza Ahmmed
PP087-ESHHP036	Regenerative Agriculture, Soil Health, and Yield Trends in Bangladesh	Srabon Saha, Shuvro Kanti Mondol, Mahdi Hassan Noor Asif, Tamim Hasan Apurbo, and Md. Mortuza Ahmmed
PP088-ESHHP037	Study of Jute, Palm Fiber, and Bees-Wax as Gamma Radiation Shielding Material	Md. Ebrahim Hasan Emon, Roshlan Rahman Dipto, and Abdus Sattar Mollah
PP089-ESHHP102	Risk Assessment of Gas Pipeline in South Dhaka City	Md. Mohaiminon Islam, Md. Kutubujjaman Kazol, Md. Faisal Ferdous, and Swapnil Barua
PP090-ESHHP108	Chemometric Appraisal of Water Quality: A Case Study from the Sitalakkhya and Balu River	Konica J. Fatema, M. A. Mottalib Sarkar, M. Mehedi Hasan, M. Safiur Rahman, and Y. N. Jolly
PP091-ESHHP115	Analysis of Attenuation Properties of Shielding Materials Using Micro-Shield 5.05	Nasima Akhter Simmy and Md Jahirul Haque Khan
PP092-ESHHP123	PM2.5-bound PAHs in Bangladesh's Urban and Rural Areas: Source Distribution and Health Risk Evaluation.	Siful Islam, Rakibul Omar, Md Shohel Rana, Shahid Uz Zaman, Mohammad Moniruzzaman, and Abdus Salam
PP093-ESHHP160	Organic Tech Farming in Bangladesh: An Approach for Sustainable Development	Md. Nayeem Jomadder and Md. Siddiqur Rahman
PP094-ESHHP174	Statistical Physics-Based Modeling of Monsoon Variability and Extreme Weather Events in Bangladesh	Muhammad Taki Ahmed, Dhrubo Sutradhar, Promit Paul, Koushik Biswas Arko, and Md Mortuza Ahmmed
PP095-ESHHP182	Long-Term Physical Analysis of Rainfall Variability, Cyclones, and Flood Dynamics in Bangladesh	Nooruzzaman Chowdhury, Md Misba Uddin, Abir Hossain, Seyam Salekin, Sharmin Akter Mim, Arizit Chaki Artha, and Md Mortuza Ahmmed



PP096-ESHHP188	Multiscale Computational Modeling of Radiation Dose Distribution in Advanced Cancer Therapy Techniques	Sajjad Hossain, Md Fahidur Rahman Al Mukit Pathan, S.M. Hasan Ibne Sena, Md. Ishyat Abrar, Ratul Chowdhury, Koushik Biswas Arko, and Md Mortuza Ahmmed
PP097-ESHHP201	The Role of Biomass Aerosols in Winter Fog Formation and Visibility Reduction in Dhaka	Shahriar Sadib, Sadiha Rahman, Nurul Amin Khondoker, and Md. Mortuza Ahmmed
PP098-ESHHP203	Bridging Financial Exclusion and Environmental Resilience Through Informal Credit Among Urban Climate Migrants in Khulna	Khondoker Mahmud Parvez
PP099-ESHHP207	Dose and Human Health Risk Assessment from Tritium in Groundwater: A Case Study in Bangladesh	Ramit Kumar Sadhukhan, Sharatul Zannat Ame, Mohammad Jahangir Alam, and B.I. Synzynys
PP100-ESHHP236	Limitation of PET-CT in Detecting Early Brain Metastases: A Case Based Observation	Farida Yasmin, Samira Sharmin, Fahmoda Akter, Mariom Nusrat, Mahmudur Rahman Mozumder, and Hosne Ara Rahman
PP101-ESHHP237	Ultrasound Artifacts: A Diagnostic Dilemma	Samira Sharmin, Farida Yasmin, Mahmudur Rahman Mozumder, Mst Fahmoda Akter, Mariom Nusrat, and Hosne Ara Rahman
PP102-ESHHP268	Multimodal Deep Learning for Acute Lymphoblastic Leukemia Subtyping: A Comparative Analysis of CNNs and Large Language Model	Shahriar Sultan Ramit, Alaya Parven Alo, Md. Sadekur Rahman, and Md. Ismail Jabiullah
PP103-TCS020	Performing Quantum Subroutine Using Cluster States	Sakibul Islam Rayhan, Karima Hassan, Md Mohsinur Rahman Adnan, Md Rasedujjaman, and Sakibul Islam Sazzad
PP104-TCS075	First-Principles Study on Electronic and Various Physical Properties of $A_2CrWO_6$ ( $A = Sr, Ba$ ) for Spintronic Applications	Ankur Ghosh, Md. Ekramul Haque Akonda, Arup Ghosh, and Md. Mijanur Rahman
PP105-TCS076	Tuning Electronic and Magnetic States in Ferromagnetic $Pr\beta O_3$ ( $\beta = V, Cr, Mn, Fe$ ): A DFT Insights	Rakibul Islam, Arup Ghosh, Md. Shahriar Israk Shafi, Mohammad Farhan Uddin, and Md. Mijanur Rahaman
PP106-TCS079	Electronic and optical properties of double perovskite $Mg_2\beta H_6$ ( $\beta = Cr, Fe$ ) for spintronic devices: A DFT Study	Arup Ghosh, Md. Ekramul Haque Akonda, Rakibul Islam, and Md. Mijanur Rahaman
PP107-TCS137	Study of Mechanical and Optoelectronic Properties of $XGa_2C_2$ ( $X = Ca, Sr$ ) Zintl Phase Compounds: A DFT Study	S. Z. Tuhee, S. Roy, M. A. Ali, M. M. Uddin, and M. M. Hossain
PP108-TCS179	Interfacial Physics and Surface Engineering of Thin Coatings for Energy and Sensing Applications in Bangladesh	Rifa Tasfia Mehjabin, Zafrin Alam Tanha, Nafiur Rahman Siam, Abu Junaet, Riddita Khandaker, Arizit Chaki Artha, and Md Mortuza Ahmmed



PP109-TCS197	Nonlinear Dynamics and Chaos Analysis in Coupled Environmental and Industrial Systems	Md. Nafis Al Habib Raiyan, Tamim Rahman, Arizit Chaki Artha, and Md. Mortuza Ahmmed
PP110-TCS243	Molecular-level Study of Antioxidant Potential of Thymol in Diverse Solvent Media: A Density Functional Theory Study	Jewel Hossen, A. K. M. Bayazid Biswas, Md. Masum Iqbal, Md. Tanvir Rashid Rezvi, and Md. Mosfiqur Rahman Maruf
PP111-TCS254	Investigation of the Optoelectronic Properties and Photovoltaic Optimization of Lead-Free Metal Halide Perovskites	M. Atickur Rahman and A. K. M. Akther Hossain
PP112-TCS266	DFT investigation of mechanical, optical, electronic and thermodynamic properties of Spinel type $Mg_2XO_4$ ( $X = Si, \text{ and } Ge$ ) materials	Arafat Rashid Chad and M. Mozahar Ali
PP113-TCS271	A Hybrid Bangla Stemmer Using Dictionary and POS Aware Rule-Based Approach	T M Shahed Rumi, Ayan Nandy Nirjan, Md. Faysal Ahmed, Md. Sadekur Rahman, and Md. Ismail Jabiullah
PP114-TCS277	First-principles Investigation of the Structural, Optical, and Mechanical properties of La-Pd-P Based Anti-Perovskite Superconductor	Md Fardin Rhaman Adil, Shawrov Debnath, and Md. Arif Ul Islam
PP115-NT196	Synthesis and Transport Behavior of Nano-Engineered Particles for Targeted Drug Delivery and Environmental Remediation	Ummi Hani Roza, Abdullah As Sadik, Abid Hossain Bevor, Md Al Shahoriyar Kobir Shanto, Jobayer Ahmed Remon, Koushik Biswas Arko, and Md. Mortuza Ahmmed
PP116-NT221	Antibacterial Activity of Green-Synthesized Silver Nanoparticles Derived from <i>Crinum asiaticum</i> Extract	Arup kumar, Md. Abu Sohel, Md Razibul Hasan, Rimi Rashid, Md. Shariful Islam, and Sheikh Manjura Hoque
PP117-NT233	Green Synthesis of Ag-doped CuO Nanoparticles using <i>Azadirachta indica</i> Leaf Extract: Characterization and Application in Dye Reduction	Ronia Sultana, Maria. Mostari, M. F. Ehasan, M. S. Islam, Harinarayan Das, Tania Faruqe, and A. R. M. Tareq
PP118-NT234	The Effect of $Ti^{4+}$ Doping on Structural, Optical, and Magnetic Properties of $Mg_{0.5}Zn_{0.5}Fe_2O_4$ Ferrite Nanoparticles via Hydrothermal Method	Fahija Farjana Upama, Md. Mahbubur Rahman Bhuiyan, Arup Kumar, Arijun Nahar, Mohammed Nazrul Islam Khan, and Rimi Rashid
PP119-NT244	Synthesis, Structural, and Optical Characterization of $Mg_xTi_{1-x}O_2$ ( $x = 0.00, 0.02, 0.04, 0.06, 0.08$ ) Nanoparticles via Co- Precipitation Method	Shahanaz Khatun, Budrun Neher, Sheikh Manjura Haque, Mohammed Nazrul Islam Khan, and Rimi Rashid
PP120-MS004	Enhanced Semiconducting and Optical Properties of Spray-Coated Ag-Sn Dual-Doped CdO Thin Films for Optoelectronic Applications	Ishraque Karim, M Ashikul Haque Naeem, Md. Abdus Sattar, and S.M Nasim Rokon
PP121-MS022	Performance Modeling and Design of a GeSnC LED for Group-IV Photonic Integration	M Rifat Hossain, Tawsiful Alam, Naima Sultana Alam Supti, and Md Mohsinur Rahman Adnan



PP122-MS045	Superior relative cooling power near ambient temperature in Pr enhanced $\text{La}_{0.50}\text{Pr}_{0.20}\text{Sr}_{0.30}\text{MnO}_3$ perovskite manganite	Mamataz Perven and Muhammad Samir Ullah
PP123-MS049	Toward Sustainable Photovoltaics: Simulation Based Optimization of Lead-Free $\text{CsSnI}_3$ Perovskite Solar Cells	Md Mesbahus Saleheen, S M Akash, Md Raihan Kazi, and A. Arefin
PP124-MS065	Synthesis and Exploration of Structural, Magnetic, Optical, And Dielectric Response of Lithium Doped Cobalt Ferrites Nanoparticle	Nazia Khatun, Toma Dey, Suravi Islam, Syed Farid Uddin Farhad, Md. Al-Mamun, Md. Saiful Alam, Ayesha Siddika, and Trisha Paul
PP125-MS072	DFT study of the mechanical, thermodynamic and optical properties of ecofriendly fluoroperovskite $\text{XCaF}_3$ (X= Ag, K, Cs, and Rb) materials	Arafat Rashid Chad and M. Mozahar Ali
PP126-MS073	Comparative Neutronic, Thermal, and Shielding Performance of Advanced Cladding Materials for NuScale-like SMR	Md Shahed Rahman, Fahmida Islam Shimla, and Abdus Sattar Mollah
PP127-MS096	Physics-Guided Machine Learning Approaches for Lithium-Ion Battery SoH Prediction: A Comprehensive Benchmark Using the Oxford Dataset	Md. Efatazzaman Efat, Sayed Md. Fazle Rabbi, Md. Saiful Islam, and Md. Saymon Hosen Polash
PP128-MS107	Magnetotransport Tuning in Zr-Doped Ba-Li-Gd-Sr-Fe Ceramics	Tabassum P. Sujana, Tasmiya R., A.H. Zulkarnine, and A.A. Momin
PP129-MS109	Time Varying Synthesis and Characterization of Layered Perovskite Lanthanum Titanate Nanostructures	Al Wasif, Emon Ibne Abbas, Md. Arif Ul Islam, and Md. Mahfuz Alam
PP130-MS111	Synthesis and Characterization of P, Sn co-doped Carbon Quantum Dots	Emon Ibne Abbas, Al Wasif, Mohammad Mahfuz Alam, and Md Arif Ul Islam
PP131-MS112	Tuning Structural, Optical, Magnetic, and Transport Properties through Ni Substitution in Mn-Zn-Cu-Al Ferrites	Saidul I. Sayeed, Amir Hossain, and A.A. Momin
PP132-MS113	Investigation of The Structural and Optical Properties of Ni-Doped PbS Thin Films Grown Via Chemical Bath Deposition	Khadija Akter Akhi, Md Mehedi Hasan shuvo, Apurbo Kumar Biswas, Sudip Sital Gosh, and Rahima Nasrin
PP133-MS118	Synthesis of Zn doped SrO nanoparticles by hydrothermal methods	Md. Rishad Ahmed, Tarifuzzaman Riyad, Md. Sabbir Uzzaman Khan, Muhammad Shihab Khan, Nur Hossen Asif, Tusar Saha, Md. Nurul Kabir Bhuiyan, Md. Sarowar Hossain, Md. Abdullah Al Nahid, Sheikh Monjura Hoque, Mohammad Jellur Rahman, Md. Alamgir Hossain, and Rezaul K Siddique
PP134-MS119	Fabrication of silver-incorporated cobalt ferrite nanoparticles through the sol-gel method for magnetic hyperthermia	Md. Ismail, Swapan Kumar Roy, Rimi Rashid, and Mohammed Nazrul Islam Khan



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PP135-MS141	DFT Investigation of the Electronic Characteristics of Novel Cs <sub>3</sub> BCl (B= O, S) Antiperovskites	Rudhro Nil Mondal and Fatema-Tuz-Zahra
PP136-MS151	Impedance Spectroscopy and Optical Properties of Ho-Doped Mg-Zn Ferrite Nanoparticles	Muhammad Samir Ullah, Kaniz Fatema Laizo, Mahmudul Hasan <sup>1</sup> , Rizwana Afrin, Rimi Rashid, and S. Manjura Hoque
PP137-MS152	Hydrothermal Synthesis of Rare-Earth-Doped Co-Zn Spinel Ferrites: Crystallographic and Magnetic Insight for Hard Magnetic Applications	Kaniz Fatema Laizo, Rimi Rashid, S. Manjura Hoque, and Muhammad Samir Ullah
PP138-MS153	Structural Optimization and Magnetic Tuning of Mg-Cr-Zn Ferrite Nanoparticles for Hyperthermia Application	Rizwana Afrin, Kaniz Fatema Laizo, Mahmudul Hasan, Rimi Rashid, S. Manjura Hoque, and Muhammad Samir Ullah
PP139-MS164	Impact of Cobalt Doping on Nickel Ferrite Nanoparticles: Structural, Magnetic, and Optical Insights	Akram Hossain, Md. Mahbubur Rahman Bhuiyan, Md. Razibul Hasan, Sheikh Manjura Haque, Mohammed Nazrul Islam Khan, and Rimi Rashid
PP140-MS165	Synthesis, Structural, Optical, and Magnetic Characterization of Zr-doped MnFe <sub>2</sub> O <sub>4</sub> Nanoparticles	Shakil Hasan Polash, Budrun Neher, Harinarayan Das, Mohammed Nazrul Islam Khan, and Rimi Rashid
PP141-MS167	Influence of Mircostructure on The Dielectric Properties of Sr Substituted Pr-Ba Perovskite Manganites for High Frequency Applications	Suzam Gifary, Md. Raseel Shikder, Kaniz Fatema Laizo, Rimi Rashid, S. Manjura Hoque, and Muhammad Samir Ullah
PP142-MS169	Topological Phase Transitions and Edge-State Transport in Two-Dimensional Quantum Materials	Sroddha Ghose, Arizit Chaki Artha, and Md Mortuza Ahmmed
PP143-MS176	Growth and Characterization of Multilayer Thin Films for High-Sensitivity Gas and Biosensors	Syed Mashrafe Ahmed, Farhat Bin, Saha Gopinath Munsur, Rodela Sharmin Mohona, Ashfak-Ud-Doulla, Tamim Hasan Apurbo, and Md Mortuza Ahmmed
PP144-MS178	Mechanical Reliability and Thermal Stability of Advanced Construction Materials under Bangladesh Climatic Conditions	Rayhanul Islam, Md Tanvir Khan, Nafisa Tasnim Rodoshi, Ishrak Jahan Mim, Arizit Chaki Artha, and Md Mortuza Ahmmed
PP145-MS180	Durability Assessment of Fiber-Reinforced Composite Materials for Coastal Infrastructure under Saline Environments in Bangladesh	Md. Noman Faysal Zihad, Tahsin Hassan Shovon, Md. Rashidul Islam Khan, Minhajul Islam Riyadh; Shahnewaz Al Tariq, Koushik Biswas Arko, and Md Mortuza Ahmmed
PP146-MS184	Thermoelectric Transport and Phase Stability in Functional Oxide Materials for Sustainable Energy Applications in	Sharin Suraiya Jahan, Sunsia Rahaman Oishi, Md Abdur Rahman, Md Shakib Iftikher, Ahnam Razeen Khan, Koushik



	Bangladesh	Biswas Arko, and Md Mortuza Ahmmed
PP147-MS185	Magnetic Phase Transitions and Anisotropic Transport in Rare-Earth-Based Functional Materials	Maream Jahan Thoma, Aritra Dhar, Sabekun Nahar, Swapnil Baidya, Shekh Shahabuddin, Koushik Biswas Arko, and Md Mortuza Ahmmed
PP148-MS187	Charge Transport, Band Structure Engineering, And Reliability of Electronic Materials in Bangladesh	Zawad Abrar Rafi, Mst Mourima Akter, Sm Walid, Md Mushfiqur Rahaman Taip, Tanvir Rahman Hamim; Koushik Biswas Arko, and Md. Mortuza Ahmmed
PP149-MS191	Controlled Crystal Growth and Defect Suppression in Wide Bandgap Materials for Optoelectronic Devices in Bangladesh	Ahmad Abrar Ragib, Md Fojla Rabbi Mugdho, Md Araf Al Asfi, Md Tawhid Alam Sami, Shanjida Akter Jinuk, Koushik Biswas Arko, and Md Mortuza Ahmmed
PP150-MS192	Ultrafast Laser-Induced Structural Dynamics in Bio-Compatible and Industrial Materials	Mohammad Aqil Shafiyee, Saimun Haque Fahim, Toufik Rahman, Md. Abdullah Al Abid, Rafat Hossain, Koushik Biswas Arko, and Md Mortuza Ahmmed
PP151-MS194	Modeling Thermal Transport and Phase Transition Behavior of Materials: Evidence from 1995–2024 Data	MD Mostakim Rakib, Anindya Sarkar, Sharmin, Saila, Md Salauddin, Safiqul Islam Feroz, Arizit Chaki Artha, and Md Mortuza Ahmed,
PP152-MS195	Quantum-State Engineering and Emergent Phenomena in Low-Dimensional Materials for Advanced Electronics in Bangladesh	Sowmi Sarker, Tamim Hasan, Md Motasim Billah, Sm Fahim Mahmud Noor, Shafin Mahamud, Koushik Biswas Arko, and Md Mortuza Ahmmed
PP153-MS209	First-principles investigation of tunable optoelectronic and mechanical properties of Cs <sub>2</sub> WB'O <sub>6</sub> (B' = Si, Ge, Sn) lead-free double perovskites	Sahadat Jaman, Md Zaman Molla, M. H. R. Khan, and Mohammad Abdur Rashid
PP154-MS211	Synthesis and Exploration of Structural, Magnetic, and Optical Properties of Ni <sub>x</sub> Cu <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> (x=0.0, 0.10, 0.20, 0.40, 0.50)	Akram Hossain, Md. Jahidul Islam, Md. Mahbubur Rahman Bhuiyan, Rimi Rashid, and Mohammed Nazrul Islam Khan
PP155-MS213	Synthesis and Investigation of Doping Effect on Highly Transparent Tin-Doped Carbon Quantum Dots for Optoelectronic Devices	Al Wasif, M. N. I. Khan, Md. Arif Ul Islam, Md. Razibul Hasan, and Md. Mahfuz Alam
PP156-MS215	Synthesis, Preparation, And Characterization of PbS Thin Films Using the Chemical Bath Deposition Technique	Sudip Sital Gosh, Khadija Akter Akhi, Apurbo Kumar Biswas, and Rahima Nasrin
PP157-MS222	Influence of pH on the Structural and Optical Properties of TiO <sub>2</sub> Nanoparticles Synthesized via a Hydrothermal Growth	Arup kumar, Md Mehedi Hasan, and Md Razibul Hasan
PP158-MS226	Lanthanum-Modified Mn-Ni-Zn Ferrites	Mohammed Manzurul Islam Khan, Jahid Hossain Bhuiyan, Mohammed Nazrul



	for Advanced Spintronic Applications	Islam Khan, Md. Razibul Hasan, Rimi Rashid, and A.T.M. Kaosar Jamil
PP159-MS231	Tailoring Structural, Optical, and Magnetic Properties of Zn-Doped MgFe <sub>2</sub> O <sub>4</sub> Nanoferrites for Efficient Magnetic Hyperthermia Applications	Md. Rasel Basunia, Hasan Khaled Rouf, Arijun Nahar, Rimi Rashid, and Mohammed Nazrul Islam Khan
PP160-MS239	Synthesis and Characterization of Mn <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> /GO for Photocatalytic Degradation	Umasree Dhar, Ishtiaque M. Syed, Md Al-Mamun, and Sheikh Manjura Hoque
PP161-MS249	Theoretical Study of Chlorine Evolution Reaction Over SiN <sub>4</sub> -codoped Graphene Electrocatalyst	Md. Mosfiqur Rahman Maruf, Jewel Hossen, and Apel Mahamud Rabby
PP162-MS264	Changes in the Crystal Structure, Surface Morphology, And Physical Properties of Ni-Zn Ferrite Resulting from Chromium Substitution	A. Hossain, Jinnatun Nesa and A.K.M. Akther Hossain
PP163-MS273	Influence of Zr doping on the microstructure and dielectric behavior of Ba <sub>0.9</sub> La <sub>0.1</sub> TiO <sub>3</sub> ceramics	Md Ashik-E-Elahe, M.K. Jaman, Md Roni Islam, Abdullah Al Sakib, Rimi Rashid, M.D. Hossain, and Mohammed Nazrul Islam Khan
PP164-MS-274	Synthesis of Novel -Visible-Light-Driven Nano Heterojunction La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> /Bi <sub>2</sub> S <sub>3</sub> Photocatalysts	Kazi Najrul Islam, Most. Samira Khatun, Sumaya Sultana, and Md. Arif Ul Islam
PP165-MS275	Structural and Magnetic Characterization of Zn-Substituted Li-Ni Ferrite Nanoparticles for High-Frequency Applications	Mikadum Rahman, A.K.M. Akther Hossain, and M.A. Islam
PP166-MS276	Fabrication of g-C <sub>3</sub> N <sub>4</sub> +ZnO/CuSCN Thin Film for Efficient Photocatalytic Organic Dye Degradation	Saikat Hassan Rabbi, Md. Ashikuzzaman, and Md. Arif Ul Islam
PP167-MS282	Role of Doping in Suppressing Leakage Current and Enhancing Multiferroic Properties of Nanostructured Bismuth Ferrite	Tazbid Hasan, Imtiaz Ahmed, Peter Mahi Rozario, and Shovan Kumar Kundu
PP168-MS283	Enhancement of Magnetic Properties through Cation Distribution in Doped Cobalt Ferrite Nanoparticles	Imtiaz Ahmed, Tazbid Hasan, Peter Mahi Rozario, and Shovan Kumar Kundu
PP169-MS284	Synthesis and structural analysis of Hydroxyapatite/ Graphene oxide-based Cobalt ternary nanocomposite	Papri Kundu, Md. Al Mamun, Md. Ifat-Al-Karim, and Farzana Nahid
PP170-MS027	Study of Crystalline Silicon Solar Cell Fabrication Technology	M. N. Islam, M. S. Alam and M. A. S. Haque