



Poster Session: Poster Presentation (PP)

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

Venue AECD Premises

List of Posters:

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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, Prianka 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
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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
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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
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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
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PP041-ECS125	Ultra Compact ENZ Electro-Absorption Modulator Based on a Graphene-ITO-TiO ₂ Heterostructure	Anik Bhadra, Niloy Chowdhury, Nazmul Hasan, and Sharnali Islam
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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
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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
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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
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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
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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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PP073-RGE241	Development of an Energy Generation System Using Piezoelectric Sensors	Md. Zeehad Bin Salim Ameer, Md. Maniruzzaman, and Rafia Nishat Tama
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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
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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
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PP098-ESHHP203	Bridging Financial Exclusion and Environmental Resilience Through Informal Credit Among Urban Climate Migrants in Khulna	Khondoker Mahmud Parvez
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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
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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 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 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. Efatuazzaman 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 ₃ 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 ¹ , 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 ₂ O ₄ 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 ₂ WB'O ₆ (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 _x Cu _{1-x} Fe ₂ O ₄ (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 ₂ 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 $MgFe_2O_4$ 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 $Mn_{1-x}Zn_xFe_2O_4/GO$ 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_4 -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 $Ba_{0.9}La_{0.1}TiO_3$ 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 $La_2Ti_2O_7/Bi_2S_3$ 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 $g-C_3N_4+ZnO/CuSCN$ 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