10th Conference of Bangladesh Crystallographic Association (11 - 12 December, 2025)

Program Schedule

Time	Day-1 11 December, 2025 (Thursday)
09:00 - 9:30	Kit Distribution among the Registered Participants
9:30 – 10:30 Inauguration Ceremony	
	Venue: Council Building, BUET
	Welcome Address by Conference Co-Chair: Prof. Dr. Mohammed Abdul Basith Head, Department of Physics, BUET Speech by Distinguished Guest: Prof. Dr. Md. Saidur Rahman Member, University Grants Commission of Bangladesh Distinguished Guest: Prof. Dr. Muhammad Ibrahim Former Professor, Department of Physics, University of Dhaka
	Conference Chair : Prof. Dr. Altaf Hussain President, Bangladesh Crystallographic Society Vote of Thanks by
	Conference Secretary: Prof. Dr. Kazi Hanium Maria General Secretary, Bangladesh Crystallographic Society
10:30 - 11:00	Refreshment
11:00 - 12:30	Keynote Lectures
	Venue: Council Building, BUET
	Chairs: Prof. Dr. Altaf Hussain
	Prof. Dr. Muhammad Qumrul Hassan
11:00 – 11:30	KL-01 Title: Perovskites and Beyond: A Scientific Journey toward Sustainable Solutions Speaker: Prof. Dr. Mohammad Abdul Basith, Department of Physics, Bangladesh University of Engineering and Technology
11:30 – 12:00	KL-02 Title: Why Do We Need New Contrast Agent for MRI/MRA Imaging? Speaker: Dr. Engr. Sheikh Manzura Haque, Materials Science Division, Bangladesh Atomic Energy Commission
12:00 – 12:30	KL-03 Title: Past, Present, and Future Aspects of the Thin-Film: Growth, Properties and Applications Speaker: Prof. Dr Nizam Uddin, Vice Chancellor, Sunamgonj Science and Technology University
12:30 – 14:00	Lunch and Prayer Break
14:00 – 15:30	Technical Session-I
	Parallel Session IA: Organic Chemistry
	Venue: Prof. Dr. Sayed Ali Afzal Multipurpose Room, Dept. of Mathematics, BUET
	Chairs: Prof. Dr. Md. Abu Bin Hasan Susan, Department of Chemistry, DU
	Prof. Dr. Iqbal Rouf Mamun, Department of Chemistry, DU

	Invited Talk (20 min) Contributory Talk (10 min each)
14:00 – 14:20	IL-C-01
14.00 14.20	Title: A Tale of Metal-Inorganic and Metal-Organic Frameworks in Electrocatalytic Oxygen
	Evolution Evolution
	Speaker: Prof. Dr. Mominul Islam, Department of Chemistry, University of Dhaka
14:20 - 14:30	OC-01
	Homo-coupling of Aryl Halides through Electron-Transfer Oxidation of Organo-cuprate with 1,2
	dichloroethane
	P.D. Prantha, M. J. Rahman
14:30 - 14:40	OC-02
	Revealing Molecular Intersections between Type 2 Diabetes and Myocardial Infarction through
	Transcriptome Analysis and Common Therapies
14.40 14.50	Umme Samia Antu, Reaz Ahmmed, Md. Nurul Haque Mollah
14:40 - 14:50	OC-03 Established and Assessment of Ess friendly Hybrid Commonitor of Polyvinylaymolides
	Fabrication and Assessment of Eco-friendly Hybrid Composites of Polyvinylpyrrolidone (PVP)/ZnO/Jute Fiber: A New Approach
	Md. Kamrul Hasan Dipu, Taslima Akter, Shahin Sultana
14:50 – 15:00	OC-04
11.50 15.00	Discovery of Shared Pathogenetic Mechanisms Between Type-2 Diabetes and Alzheimer's
	Disease, and Therapeutic Agents
	Reaz Ahmmed, Umme Samia Antu, Md. Nurul Haque Mollah
15:00 – 15:10	OC-05
	Crystallographic facet Engineering of ZnO Nanoparticles for Photocatalytic Organic Pollutant
	Degradation and Antibacterial activity
	Priya Paul, Fataha Nur Robel, Newaz Mohammed Bahadur, Sumaya Tabassum, Subarna
	Sandhani Dey, Muhammad Shahriar Bashar, Nazmul Islam Tanvir, Samina Ahmed*, Md Sahadai
15:10 15:20	Hossain
15:10 – 15:20	OC-06 Design and Synthesis of Catalysts for the Lignin Valorization for the Application as Chemical
	Feedstocks in the Paints and Textile Industries
	Habibur Rahman and Nur Uddin Ahamad
15:20 – 15:30	OC-07
10.20	Experimental and Theoretical Insights into Polyacrylic Acid-Grafted Tamarind Kernel Powder
	Reinforced High-Density Polyethylene Biocomposites
	Taslima Akter, Md. Kamrul Hasan Dipu, Shahin Sultana
14:00 – 15:30	Technical Session-I
	Parallel Session IB: Structural Physics-1
	Venue: Room no. OAB 104, Old Academic Building, BUET
	Chairs: Prof. Dr. Aminul I. Talukder, Department of Physics, DU
	Dr. Abu Zafur Ziauddin Ahmed, Primeasia University
	Invited Talk (20 min) Contributory Talk (10 min each)
14:00 – 14:20	IL-P-01
	Title: Justification of Scaling Law for Atomic Diffusion of Fe based Liquid Transition Metal
	Alloys
	Speaker: Prof. Dr. Ratan Chandra Gosh, Department of Physics, University of Dhaka
14:20 – 14:30	SP-01
0 _ 10	First-Principles Investigation of Half-Metallicity and Optoelectronic Properties in FrTiX ₃ (X =
	Cl, Br, I) Perovskite.
	Sandip Sutradhar, Alamgir Kabir
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14.20 14.40	SP-02
14:30 – 14:40	Atomistic Insights into Lattice Distortion, Grain Boundaries and Dislocation Effects on the Mechanical Properties in Multi Principal Element Alloys (MPEAs) Sanzida Naznin Mim, Zihad Hossain, Most. Meftaul Zannati Kemi, Md. Riad Khan, Md Lokman Ali
14:40 – 14:50	SP-03
	Compositional Control and Property Modulation in Zn-Mg–Cr Spinel Ferrite Nanoparticles <i>Amit Chakroborty, Muhammad Samir Ullah and M. Mizanur Rahman</i>
14:50 - 15:00	SP-04
	Atomic Dynamics of Liquid 3d Transition Metals: A Molecular Dynamics Exploration Amitav Das and R. C. Gosh
15:00 - 15:10	SP-05
	First-Principles Study of Structural, Mechanical, Electronic, Thermal and Optical Properties of New Lead-Free Double Perovskites Rb ₂ LiSbX ₆ (X = F, Cl, Br, I) for Industrial Applications <i>Md. Shoriful Islam, Antor Saha, Md. Atikur Rahman</i>
15:10 – 15:20	SP-06
	Enhancement of Structural, Morphological, Optical, and Electrical Properties of CuO Thin Films with Cr Doping toward Gas Sensing Application Dibakar Dhar, Md Ashraful Islam, Faria Chowdhury, M. S. Bashar, Kazi Md. Amjad Hussain, Kazi Hanium Maria
15:20 – 15:30	SP-07
	Pressure-Tuned Structural, Mechanical, Electronic, Optical, and Thermoelectric Properties of the Binary Intermetallic Compound Hf ₅ Si ₃ : Potential for High-Temperature Applications Md. Emon Hassan, Md. Riad Khan, Md. Khairul Alam, Md. Lokman Ali
14:00 - 16:00	Technical Session-I
	Parallel Session IC: Energy-Related Materials-1
	Venue: Seminar Room, Department of Physics, BUET
	Chairs: Prof. Dr. Samir Ullah, Department of Physics, BUET
	Prof. Dr. Mohammad Belal Hossen, Department of Physics, CUET
	Invited Talk (20 min) Contributory Talk (10 min each)
14:00 – 14:20	IL-P-02
	Title: Safety Enhancement of Auto Body Passengers Through Selective Phase Transformation of Steel Speaker: Prof. Dr. Aminul Islam, Materials and Metallurgical Engineering, Bangladesh
	University of Engineering and Technology
14:20 – 14:40	IL-P-03
14.20 - 14.40	Title: Metal Oxide Semiconducting Thin Films for Functional Devices: Fabrication, Characterization, and Key Challenges Speaker: Prof. Dr. Mehnaz Sharmin, Department of Physics, Bangladesh University of Engineering and Technology
14:40 – 14:50	EM-01 Designing High-Performance Halide Double Perovskites X ₂ AgIrI ₆ (X = Rb, Cs) for Energy Conversion Applications: A First-Principles Perspective Apu Das and Muhammad Ruhul Amin

14:50 -	15:00	EM-02
14.30 -	- 13.00	ZnCo ₂ S ₄ @NiCo-LDH Nanocomposite Electrode with Superior Electrochemical Properties for
		High-Performance Supercapacitors in Aqueous Electrolytes
		Saifullaha, Probal Roy, and Muhammad Rakibul Islam
15:00 -	- 15:10	EM-03
13.00	13.10	Study of the Morphological, Structural, and Optoelectrical properties of Aluminium (Al) and
		Copper (Cu) dual-doped CdO thin film
		Aminul Islam Siyam, Syful Islam Nayeem, Shanjid Islam joy, Md. Abdus Sattar, Samia tabasuum,
		Md. Abdus Sabur
15:10-	15:20	EM-04
		Substrate-Dependent Crystallinity and Electrical Properties of Cu ₃ N Thin Films Grown by
		Reactive Radio Frequency (RF) Magnetron Sputtering
		Majumder, K. Saito, Q. Guo, M. A. M. Patwary and T. Tanaka
15:20-	15:30	EM-05
		Lead-Free CsSnCl ₃ –MoS ₂ Nanocomposites: Synergistic Enhancement of Moisture Stability and Energy Storage Performance
		Tasnim Jahan and M. A. Basith
15:30 -	- 15:40	EM-06
		Designing the Future of Sustainable, High-Efficiency Photovoltaics with Eco-Friendly
		Chalcohalide CuBiSeCl ₂ through Atomic-to-Device-Level Engineering Using DFT, SCAPS-1D,
		and Machine Learning
		Zihad Hossain, Sanzida Naznin Mim, Snigdha Dev Saha Prapya, Md. Riad Khan, Md. Lokman
15.40	16.00	Ali
15:40 –	- 16:00	EM-07 Synthesis of Cellulose Nanocrystals from Tamarind Peel by Sulfuric Acid Hydrolysis: A
		Multiscale Property
		Md. Ashikur Rahman, Md. Al-Amin, Md. Mahtabur Rahman, Mehedi Hasan, Md. Khorshed Alam,
		Mohammad Jellur Rahman
15:30 -	- 17:00	Poster Session IA: Chemistry and Others-1 (CP:1 – 25)
		Venue: Department of Chemical Engineering Corridor
		Poster Session IB: Physics and Material Science-1 (PP:1 – 23 & MSP:1 – 13)
		Venue: Department of Physics Premises
17:00 -		Tea and Prayer Break
17:20 -	- 18:20	Technical Session-II
		Parallel Session IIA: Inorganic Chemistry-1
		Venue: Prof. Dr. Sayed Ali Afzal Multipurpose Room, Dept. of Mathematics, BUET
		Chairs: Prof. Dr. Md. Aftab Ali Shaikh, Department of Chemistry, DU
		Dr. Israt Jahan, Department of Chemistry, BUET
17.20	17.40	Invited Talk (20 min) Contributory Talk (10 min each)
17:20 –	- 1/:40	IL-C-02 Title: Pagetivity Studies of Saccharin at a Diphosphine Stabilized Low Valent Triguthenium
		Title: Reactivity Studies of Saccharin at a Diphosphine-Stabilized Low-Valent Triruthenium Center to Show a New, Simple but Elusive Coordination Mode of Saccharinate Ligand
		Speaker: S. Rajbangshi, J. F. Raka, N. Akter, Md. M. Alam, V. N. Nesterov, S.E. Kabir, S. Ghosh
		Department of Chemistry, Jahangirnagar University
17:40 -	_ 17.50	IC-01
17.40	- 17.30	Synthesis, Structure, and Fluxionality of Stibine, Stibene, and Stibinidene Ligated Triruthenium Clusters
		,,,

	Supported by Diphosphine Ligands Mihir L. Bhowmik, Md. Abdullah Al Mamun, Shafikul Islam, Shariff E. Kabir
17:50 – 18:00	IC-02 Study on The Composite Materials of BiOI _{0.5} Br _{0.5} and CeO ₂ Md. Ashikur Rahman Ashik, Liton Bishwas, SK Faisal Ahmed, P. C. Barman, Pial Chowdhury, Partha Pratim Nath, Rashed Mahmud, Md. Nizam Uddin
18:00 – 18:10	IC-03 A Novel Sorbitol-Functionalized Graphene Oxide–Iron Oxide Nanocomposite for Enhanced Doxycycline Removal from Aqueous Solutions Afia Murshida Kusum, Md Sakil, Sabina Yasmin, Md. Safiqul Islam, and Md Humayun Kabir
18:10 – 18:20	IC-04 Structural Insights into CeO ₂ Nanoparticles and Ag–CeO ₂ Nanocomposites Through Various XRD Models: Rapid Ultrasound-Assisted Synthesis and Photocatalytic Applications Fariya Iqbal, Tasnimul Quader Tazim, Md. Abdus Samad Azad, Newaz Mohammed Bahadur, A F M Arifur Rahman
17:20 – 18:30	Technical Session-II
	Parallel Session IIB: Physical Chemistry-1 Venue: Room no. OAB 104, Old Academic Building, BUET
	Chairs: Prof. Dr. Muhammed Shah Miran, Department of Chemistry, DU
	Dr. Hasina Akhter Simol, CARS, DU
	Invited Talk (20 min) Contributory Talk (10 min each)
17:20 – 17:40	IL-C-03 Title: Engineered Vanadium Cathodes for Next-Generation Aqueous Zn-Ion Batteries Speaker: Dr. Chanchal Kumar Roy, Department of Chemistry, Bangladesh University of Engineering and Technology
17:40 – 17:50	PC-01 Understanding the Zn ²⁺ /H ⁺ Co-Insertion Mechanism in Reduced Graphene-Modified MnO ₂ Cathodes for Aqueous Zinc Ion Batteries Md. Rana Sheikh, Md. Amir Hamza, Maharun Negar Mojumder, Syfulla Mansur, Bipul Chandra Majumder, Abdul Kuddus, Chanchal Kumar Roy
17:50 – 18:00	PC-02 Efficient Removal of Ciprofloxacin from Aqueous Solution using Zn–C Battery-derived Graphene Oxide Enhanced by Hydrogen Bonding, Electrostatic and π-π Interaction Monira Akter Somapti, Nosheen Tabassum Dipannita, Md. Golam Azam, Md Humayun Kabir*, Sabina Yasmin
18:00 – 18:10	PC-03 Biomass-Derived Hierarchically Porous Carbon for Water Desalination by Capacitive Deionization Umme Sanima Chowdhury, Mohy Menul Islam and Md. Mominul Islam
18:10 – 18:20	PC-04 Development of N/P/B-doped BiOBr-PCL Composite for Photocatalytic, Photovoltaic, Luminescence, and Antibacterial Activities P. C. Barman, M.G. Zakaria, Pial Chowdhury, Partha Pratim Nath, M.N. Uddin

18:20 – 18:30	PC-05 Magnetic Fe-Ni Oxides-Codoped MoS ₂ Nanosheets as Electrocatalyst for Alkaline Oxygen Evolution Saiful Islam, Md. Akib Hassan, Rowshan Yeasmin Snigdha, Tabassum Taspya, and Md. Mominul Islam
17:20 – 18:30	Technical Session-II
	Parallel Session IIC: Biomedical and Polymer Physics
	Venue: Seminar Room, Department of Physics, BUET
	Chairs: Prof. Dr. Abu Sayem Karal, Department of Physics, BUET Prof. Dr. Md. Abdul Kadir, Department of Biomedical Physics & Technology, DU
17:20 – 17:40	Invited Talk (20 min) Contributory Talk (10 min each) IL-P-04
17:20 - 17:40	Title: Polymeric Vehicles for Skin and Ophthalmologic Drug Delivery – Ongoing Efforts and
	Future Directions
	Speaker: Prof. Dr. Tarik Arafat, Department of Biomedical Engineering, Bangladesh University of Engineering and Technology
17:40 - 17:50	BPP-01
	The Adsorption Effect of Mignitol onto $B_{12}N_{12}$ and $XB_{11}N_{12}$ (where $X = Ga$, Al, In) Nanocages:
	A Comparative DFT Study with COSMO Insights
	Samiron Kumar Saha, Maliha Nishat, Rayhan Mostofa, Al-Amin, Md. Abul Hasnat
17:50 – 18:00	BPP-02 Investigations of the Shape Change and Membrane Permeation of Vesicles Induced by Silver Nanoparticles
	Zarin Tasnim Rakhy and Mohammad Abu Sayem Karal
18:00 – 18:10	BPP-03 Preparation and Characterization of Carbon Nanotube and Molybdenum Disulfide Reinforced Nanocomposite Film of Cellulose Nanocrystals Md. Al-Amin, Mehedi Hasan, Md. Mahtabur Rahman, Md. Khorshed Alam, Mohammad Jellur Rahman
18:10 – 18:20	BPP-04
	Annealing Induced Modifications of Structural, and Optical Parameters of PP(FD-BM) thin
	films for Optoelectronic Applications
	Bablur Rahman, M. Hedayet Ullah, Ratul Roy, A. H. Bhuiyan, Mohammad Jellur Rahman
18:20 – 18:30	BPP-05
	Radiation Dose and Heavy Metal Levels in the Soil of the Sundarbans Ecotourism Center,
	Bangladesh: Implications for Human Health
	Sadia Afrin Swarna, Goshtha Gopal Biswas, Mst Shafaly Khatun
18:30 – 19:30	AGM
19:30 – 21:30	Dinner

10th Conference of Bangladesh Crystallographic Association (11 - 12 December, 2025) Program Schedule

Time	Day-2	12 December, 2025 (Friday)
09:15 – 10:35	Parallel	ll Session-III Session IIIA: Inorganic Chemistry-2 Prof. Dr. Sayed Ali Afzal Multipurpose Room, Dept. of Mathematics, BUET
		rof. Dr. Al-Nakib Chowdhury, Department of Chemistry, BUET Dr. Foni Bushon Biswas, Department of Chemistry, CU
	Invited Ta	lk (20 min) Contributory Talk (10 min each)
09:15 – 09:35	antimicrol Speaker:	uclear metal complexes of a novel Schiff base ligand: synthesis, characterization, bial and molecular docking with spiked protein of SARS-CoV-19 Umma Sumia Tohura and Mohammad Nasir Uddin, Department of Chemistry, of Chittagong
09:35 – 09:45	IC-06 Structural Insights into Zinc Oxide-Silver Nanocomposite via different XRD models: Rapid Synthesis with Photocatalytic & Antibacterial Applications Md. Abdus Samad Azad, Md. Shahadat Hossain, Shassatha Paul Saikat, Md. Rifat Hasan, Shukanta Bhowmik	
09:45 -09:55	$(Ti_3C_2T_x),$ Liton Bish	Characterization and Applications of the Hybrid Composite Materials of MXene g - C_3N_4 and CeO_2 twas, SK Faisal Ahmed, Md. Ashikur Rahman Ashik, P. C. Barman, K. H. Tan, M Adur Rahman, Md. Nizam Uddin
09:55 – 10:05	C Bond R	etallophosphido-Ru Clusters Via an Unexpected Series of Metal-Mediated P–C and C–earrangements Chowmik, Graeme Hogarth, Shariff E. Kabir, Jagodish C. Sarker
10:05 – 10:15	Photodegr	c Effects of Amine-Modified Graphene Oxide/ZnO–CeO ₂ Nanocomposites in radation, Antibacterial, and Antibiotic Removal Performance on Hossain, Md Al-Imran, Mohammad Awlad Hossain, Md Elias
10:15-10:25	as Single-	Antimicrobial Activity of Rhenium (IV) Dithiocarbamate Complexes, and Their Use Source Precursors to ReS ₂ Nanomaterials ran, Md. Nayem Hossen, Md. Aminul Haque, Graeme Hogarth, Jagodish C. Sarker
10:25 – 10:35	Hygienic '	l Deposition of Bioactive Nanomaterial in Nanocellulose Matrix for Engineering Textiles njida and Nur Uddin Ahamad

09:15 - 10:45	Technical Session-III
	Parallel Session IIIB: Functional Materials-1
	Venue: Room no. OAB 104, Old Academic Building, BUET
	Chairs: Dr. Mohammad Mizanur Rahman, Institute of Energy Science, AERE
	Prof. Dr. Azizar Rahman, Department of Physics, BUET
	Invited Talk (20 min) Contributory Talk (10 min each)
09:15 - 09:35	IL-P-05
	Title: Tunable Magnetic Nanoparticles and Its Prospects
	Speaker: Prof. Dr. Md. Samiul Islam Sarker, Department of Physics, University of Rajshahi
09:35 - 09:45	FM-01
	Effect of pH on Structural, Electromagnetic, and Optical Properties of Iron-Doped Titanium
	Dioxide Nanoparticles
	Afifa Moon Rachona, Mohammad Mahbubur Rahman and Mohammad Mizanur Rahman
09:45 – 09:55	FM-02
	Synthesis and Investigation of the Structural, Morphological, and Optical Properties of
	Nanostructured Molybdenum-Doped Zinc Oxide Thin Films Anindya Biswas, Parvin Sultana, Md. Kamruzzaman
09:55 – 10:05	FM-03
09.33 – 10.03	High-Yield Production of Monolayer and Few-layer WS ₂ and MoS ₂ via Sn0 Atom Intercalation
	A.M Shaomim Hassan Utsho, Kazi Hanium Maria
10:05 – 10:15	FM-04
10:03 – 10:13	
	Structural, Electronic, Optical, and Thermoelectric properties of Fe-Doped YMnO ₃ : A First-principles Study
	Kazi Mazba Kamal, K. M. Kamal, and A. Kabir
10:15–10:25	FM-05
10.15 10.25	Ethanol Sensing Performance of Cobalt-Doped Nickel Oxide Thin Films
	Farhan Labib Fahim, Mehnaz Sharmin
10:25 – 10:35	FM-06
	Investigation of Physical and Photocatalytic Properties of Ba ₂ (Pr,Ce)(Bi,Sb)O ₆ Double Perovskite
	Semiconductors Using First Principal Calculation
	Md. Shahin Kabir, Md. Abdul Karim, Md. Jubayer Hossain, Dayal Chandra Roy
10:35 – 10:45	FM-07
	Tuning the Optical Properties of Phyto-Synthesized Ag/ZnO Nanocomposites for Enhanced
	Photocatalytic Activity
	Md. Al Imran, Monika Paul, Bithi Paul
09:15 - 10:45	Technical Session-III
	Parallel Session IIIC: Structural Physics-2
	Venue: Seminar Room, Department of Physics, BUET
	Chairs: Prof. Dr. Alamgir Kabir, Department of Physics, DU
	Prof. Dr. Md. Abdul Halim, Department of Materials Science & Engineering, RU
	Invited Talk (20 min) Contributory Talk (10 min each)
09:15 – 09:35	IL-P-06
07.13	Title: Combining Machine Learning and Computational Chemistry for Equilibrium Conformation
	of Bimetallic Nanoparticles Under Gas Atmosphere
	Speaker: Md. Khorshed Alam, R. Miah, I. J. Powshi, H. Takaba, University of Barishal

09:35 – 09:45	SP-08
07.33 07.43	Gamma Radiation-Induced Modifications in Chemical Vapor Deposition-Grown Two-
	Dimensional Tungsten Diselenide Mongur Hossain, Biao Qin, and Xidong Duan
09:45 - 09:55	SP-09
	Synthesis and Characterization of MoO ₃ and CNTs Incorporated WS ₂ Nanocomposites for Hybrid
	Supercapacitor Applications
	Md. Faysual Kabir, Muhammad Rakibul Islam
09:55 – 10:05	SP-10
	Temperature Dependent Entropy of Liquid Noble Metals: A Simulation Based Study
	Jahid Hasan, Amitav Das, A. Kabir and R.C. Gosh
10:05 – 10:15	SP-11
	Solvent-Mediated Dispersion of TMDs: A Systematic Exploration of Strategies, Challenges, and
	Opportunities Description of the state of t
	Rutaba Jania, Mehnaz Sharmin, Kazi Hanium Maria
10:15– 10:25	SP-12
	Pressure-Induced Tuning of Optoelectronic Properties in Lead-Free Halide Double perovskites Rb ₂ AB ₆ (A = Te, Zr; B = Cl, Br): An AB Initio Investigation
	Antor Saha, Md. Atikur Rahman, Shoriful Islam
10:25 – 10:35	SP-13
10:23 – 10:33	Effects of Local Minima on Atomic Transport Properties of Liquids Zn and Bi
	S. M. Karmakar, R.C. Gosh and Md Tareq Mahmud
10:35 – 10:45	SP-14
	Crystallographic and Magnetic Properties of Spinel-Type Mg-Ce-Zn Nano Particles
	Muhammad Samir Ullah, Kaniz Fatema Laizo, Mahmudul Hasan, and Md. Rasel Shikder
10:45 - 11:00	Tea Break
11:00 – 12:30	Technical Session-IV
	Parallel Session IVA: Physical Chemistry-2
	Venue: Prof. Dr. Sayed Ali Afzal Multipurpose Room, Dept. of Mathematics, BUET Chairs: Prof. Dr. Taposhi Ghosh Roy, Department of Chemistry, CU
	Dr. Chanchal Kumar Roy, Department of Chemistry, BUET
	Invited Talk (20 min) Contributory Talk (10 min each)
11:00 – 11:20	IL-C-5
	Title: Translating Molecular Design into Macroscopic Properties: Next-Generation Smart
	Polymeric Materials Speaker: <i>Prof. Abu Bin Imran, Dept. of Chemistry, Bangladesh University of Engineering and</i>
	Technology
11:20 – 11:30	PC-06
	Nitrogen-doped Carbon Dots Derived from Carbohydrates as Fluorescent Probes for Biomedical
	Applications Sumaiya Hasan Suma and Md. Abu Bin Hasan Susan
11:30 – 11:40	PC-07
11:30 – 11:40	PC-07 Bifunctional MOF-based Electrocatalysts for Medical-Grade Oxygen Generation Rowshan Yeasmin Snigdha, Tabassum Taspya, and Md. Mominul Islam

11:40 – 12:50	PC-08 Electrochemical Surface Activation of Glassy Carbon: A Cost-Effective Catalyst for Oxidation and Reduction Reactions Munira Siddika, Mohammad A. Hasnat
11:50 – 12:00	PC-09 Recent Advances on Carbon-Based Electrocatalyst for Energy-Related Oxygen Reduction Reaction in Alkaline Medium Md. Saiful Islam, Md. Rayhanul Islam, Md. Shamim Ahmed, Md. Ashik Mahmud, Md. Jahid Hasan Tareq, Sraboni Akter, Promita Poroma Sarker, Sha Md. Shahan Shahriar, Md. Khairul Islam and Sayed M A Salam
12:00 – 12:10	PC-10 Turning Lightweight Biomass into a High-Performance Channeled Carbon Mat Featuring Electrolyte-Dependent Supercapacitive Charge Storage Md. Mehedi Hasan Foysal, Umme Sanima Chowdhury, Imran Hossain, and Md. Mominul Islam
12:10 – 12:20	PC-11 CuO/TiO ₂ Nanocomposites for Sunlight-Driven Photodegradation of Methylene Blue and Amoxicillin Amena Jaman, Md. Sajib and Muhammed Shah Miran
12:20 – 12:30	PC-12 Magnetic Graphene Oxide Modified with Carboxymethylcellulose for High-Performance Tetracycline Removal from Aqueous Media Nosheen Tabassum Dipannita, Monira Akter Somapti, Sabina Yasmin, Md. Kamrul Hasan, and Md Humayun Kabir
11:00 – 12:30	Technical Session-IV Parallel Session IVB: Functional Materials-2 Venue: Room no. OAB 104, Old Academic Building, BUET Chairs: Prof. Dr. M. Mizanur Rahman, Department of Physics, DU Prof. Dr. Md. Samiul Islam Sarker, Department of Physics, RU Invited Talk (20 min) Contributory Talk (10 min each)
11:00 – 11:20	IL-P-07 Title: ML-DFT-Experimental Approach: A Probable Survival Path in Resource Limited Sustainable Materials Science Research in Bangladesh Speaker: Prof. Dr. Imtiaz Ahmed, Department of Electrical and Electronic Engineering, University of Dhaka
11:20 – 11:30	FM-08 Morphological, Elastic, Magnetic and Optical Properties of Biopolymer-coated Gd-doped Mg-Cu-Zn Ferrite Md Fahim, Zakia Sultana Tithi, Shadid Ibne Salim, Khandker Saadat Hossain and Mohammad Mizanur Rahman
11:30 – 11:40	FM-09 Atomistic Simulation of Dislocation and Grain Boundary Effects on Mechanical Properties in High Entropy Alloy Most. Meftaul Zannati Kemi, Sanzida Naznin Mim, Md. Lokman Ali

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11:40 – 11:50	FM-10
	Hydrothermal Synthesis, Structural Characterizations and Physical Properties of Bi & Nb Based
	Piezoelectric
	Md. Mukhlasur Rahman Biswas, Md. Tahmidur Rahman Sadd, Mirza H.K. Rubel
11:50 – 12:00	FM-11
	Investigation on the Structural, Magnetic, Electrical & Optical Properties of Gd Doped Mn Ferrite
	Nanoparticles Prepared by Hydrothermal Method
	M.Sornali, N. Deb, I. M. Syed, S. M. Hoque
12:00 – 12:10	FM-12
	Green Approach for the Synthesis and Photocatalytic Assessment of Copper Nanoparticles Using
	Diospyros malabarica Leaf Extract
	Abhi Saha, Mst. Jesmin Sultana, Fazle Rabbi Shakil Ahmed
12:10 – 12:20	FM-13
	Green Synthesis and Characterization of ZnO Nanoparticles from Moringa oleifera Leaf Extract
	for Enhanced Photocatalytic Dye Degradation
	Antara Rahman, Fariha Chowdhury, I. N. Esha, Kazi Hanium Maria
12:20 – 12:30	FM-14
	Structural, Optical, and Photocatalytic Behavior of Sm and Dy Doped ZnO Nanoparticles
	Synthesized by a Modified Pechini (Polymeric Sol–Gel) Method
	A. A. Retu, Fariha Chowdhury, I. N. Esha, Kazi Hanium Maria
11:00 – 12:30	Technical Session-IV
	Parallel Session IVC: Energy Related Materials-2
	Venue: Seminar Room, Department of Physics, BUET
	Chairs: Prof. Dr. Ratan Chandra Gosh, Department of Physics, DU
	Prof. Dr. Parvin Sultana, Department of Physics, BUET
11.00 11.20	Invited Talk (20 min) Contributory Talk (10 min each) IL-P-08
11:00 – 11:20	
	Title: GaN-based Single Photon Emitters for Quantum Photonic Applications
	Speaker: Dr. Zunaid Baten, Electrical & Electronic Engineering, Bangladesh University of Engineering and Technology
11.20 11.20	
11:20 – 11:30	EM-08 Symbols Modified 7nCo O /V O Hetemostmyetymes via Ion Eychenge for Enhanced Enemy
	Surface-Modified ZnCo ₂ O ₄ /V ₂ O ₅ Heterostructures via Ion Exchange for Enhanced Energy Storage Performance
	Mehedi Hasan, Md. Raihan Siddiki, Md. Abdullah Zubair and Muhammad Rakibul Islam
11:30 – 11:40	EM-09
11.50 11.10	Effect of Cobalt Doping on the Properties of SnO ₂ Thin Films Deposited by Ultrasonic Spray
	Pyrolysis Method
	Md. Mohiuddin, Ishtiaque M. Syed, Rahima Nasrin
11:40 – 11:50	EM-10
	A Comprehensive DFT Study on Novel Double Perovskite Halides X ₂ CuPCl ₆ (X = K, Rb) for
	optoelectronic and thermoelectric applications.
	Sadman Sakib, Apu Das and Muhammad Ruhul Amin
11:50 – 12:00	EM-11
	Catalytic Co-Pyrolysis of Sugarcane Bagasse and waste LDPE Using Metal-Modified Clay for
	Renewable Biofuel Production
	Tasdikul Hasan, Mohammed Mahmudur Rahman

12:00 – 12:10	EM-12 Boosting Stability of Perovskite Solar Cells Using Direct Two-dimensional (2D) Perovskites Surface Passivation S. Biswas, M. Kundar
12:10 – 12:20	EM-13 Charge Transport Layer Engineering with WS ₂ /Cu ₂ Te (ETL/HTL) for Superior Photovoltaic Response in Rb ₂ LiGaI ₆ Double Perovskite Solar Cell Md. Riad Khan, Zihad Hossain, Md. Redwan Alam Hridoy, Sanzida Naznin Mim, Md. Lokman Ali
12:20 – 12:30	EM-14 Effect of Holmium (Ho) Doping on the Structural, Dielectric, and Magnetic Properties of Nickel Ferrites (NiFe ₂ O ₄) Grown by Hydrothermal Method Tamanna Tabassum, Mohammad Kamal Hossain, Rabia Khatun Rita, Mumtahina Hasnat Surovy, Sheikh Manjura Hoque
12:30 - 14:30	Lunch and Prayer Break
14:30 – 16:00	Poster Session IIA: Chemistry and Others-2 (CP: 26 – 51)
	Venue: Department of Chemical Engineering Corridor
	Poster Session IIB: Physics and Material Science-2 (PP: 24 – 45 & MSP: 14 – 27)
	Venue: Department of Physics Premises
16:00 – 16:20	Tea and Prayer Break
16:20 – 17:30	Technical Session-V
	Parallel Session VA: Physical Chemistry-3 and Others
	Venue: Prof. Dr. Sayed Ali Afzal Multipurpose Room, Dept. of Mathematics, BUET
	Chairs: Prof. Dr. Md. Nazrul Islam, Department of Chemistry, BUET
	Prof. Dr. Subas Rajbangshi, Department of Chemistry, JU
	Invited Talk (20 min) Contributory Talk (10 min each)
16:20 – 16:40	IL-C-06 Title: Computational Approach to Understand Properties of Alkali Metal Tungsten Bronze and Bronzoids Speaker: Prof. Dr. Taposh Debnath, Theoretical and Computational Chemistry, University of Dhaka
16:40 – 16:50	PC-13 Exfoliated Kaolinite-rGO Hybridization Unlocks Exceptional Pseudocapacitance via Controlled Ion Intercalation for Next-Generation Supercapacitors Imran Hossain, Suhrid Sayantha Aniv, Muhammed Shah Miran, and Md. Mominul Islam
16:50 – 17:00	PC-14 Utilization of Waste Leather as a Sustainable Electrode Material for Capacitive Deionization Technology Md. Humayun Kabir, Umme Sanima Chowdhury, Md. Abu Bin Hasan Susan and Md. Mominul Islam
17:00 – 17:10	PC-15 Ionic Liquid as Soft Template for Nucleation and Growth of ZnO Nanoparticles at Different pH Using Hydrothermal Method Md. Nimur Rahman, Md. Abu Bin Hasan Susan

17:10 – 17:20	PC-16
	The Thiocyanate Gatekeeper: An In-Situ Adlayer on Gold for Direct and Enhanced Hydrogen
	Peroxide Electroreduction
	Mohebul Ahsan, Md Fahamidul Islam, Md. Rezwan Miah, Mohammad A. Hasnat
17:20 – 17:30	PC-17 Hydrostatic Pressure Effects on the Mechanical, Optoelectronic and Thermal Properties of XM (X
	Figure 1. In the High-Performance Semiconductor Applications AM (A) = A
	M. Sabah, M. S. Islam, M. T. Ahmed, R. Parvin, M. A. Rahman, M. S. Ali
16:20 – 18:00	Technical Session-V
	Parallel Session VB: Functional Materials-3
	Venue: Room no. OAB 104, Old Academic Building, BUET
	Chairs: Prof. Dr. Mohammad Jellur Rahman, Department of Physics, BUET
	Prof. Dr. Mehnaz Sharmin, Department of Physics, BUET
	Invited Talk (20 min) Contributory Talk (10 min each)
16:20 – 16:40	IL-P-09
	Title: Defect-Engineered Heterostructures for Optimized Charge Transfer and Elevated
	Capacitive Behavior in High-Performance Supercapacitor Devices
	Speaker: Prof. Dr. Rakibul Islam, Department of Physics, Bangladesh University of
	Engineering and Technology
16:40 – 17:00	IL-P-10
	Title: Unveiling Structural Insights: Advanced Crystallographic Investigation of Nanomaterials
	Speaker: Prof. Dr. Mohammad Belal Hossen, Department of Physics, Chittagong University of
	Engineering and Technology
17:00 – 17:10	FM-15
	Low-Temperature Synthesis of Ti ₂ CT _x MXene with Tunable Structure and Superior
	Electrochemical Performance
	Humaira Showkat, Mastura Imroz, Md. Ashraful Islam, Md. Sobuj Hossain, Tasnim Jahan,
	Ferdous Yasmeen, Md. Azizul Hoque, Mohasin Tarek and M. A. Basith
17:10 – 17:20	FM-16
	CNT and Co-Zn Ferrite-Incorporated Water Hyacinth Biochar for Chromium Removal from
	Tannery Wastewater
	M. Hedayet Ullah, Mohammad Jellur Rahman
17:20 – 17:30	FM-17
	Structure-Driven Magnetic and Electrical Modulation in Ho–Eu Co-Doped Ni–Zn–Cu Ferrites
	A.T. Sabah, Sheikh Manjura Hoque, Kazi Hanium Maria, Mohammad Khurshed Alam,
	Mohammad Shahriar Bashar, I.N. Esha
17:30 – 17:40	FM-18
	Role of Zn–Al Co-Doping in Tailoring the Structural Defects and Band Gap of CuO Thin Films
	T.I. Prova, Mehnaz Sharmin, Kazi Hanium Maria, Mohammad Shahriar Bashar, I. N. Esha
17:40 – 17:50	FM-19
	Carbon Quantum Dots from Fish Gelatin: Optimization and Characterization for Fluorescent
	Probe Sensor
	Mashkawat Quader Ohee, Mohammad Jellur Rahman, Kazi Hanium Maria, and Md. Abul
	Kalam

17:50 – 18:00	FM-20	
	Structural and Mech	nanical Properties of Jute-derived Cellulose-reinforced Epoxy and PVA
	Composites Enhanced	d with Multi-Walled Carbon Nanotubes
	Noor Alam Naim, Sal	
18:00 – 19:00	Closing and Award	Giving
	Venue: Seminar Ro	oom, Dr. Jamilur Reza Choudhury Civil Engineering Building, BUET
	Speech by	: Prof. Dr. Altaf Hussain
		Conference chair and BCA president
	Speech by	: Prof. Dr. Muhammad Qumrul Hassan
		Vice President, Bangladesh Crystallographic Society
	Speech by	
	Distinguished Guest	: Prof. Dr. Aparna Islam
		Biotechnology Department, Brac University
	Speech by	: Prof. Dr. Mohammed Abdul Basith
		Co-Chair of Conference
		Head, Department of Physics, BUET
	Speech by	: Prof. Dr. Jellur Rahman, Convener, Scientific Sub-Committee
	Announcements of	
	Awards	: Prof. Dr. Kazi Hanium Maria
		General Secretary, Bangladesh Crystallographic Society

List of Abstracts Selected for Poster Presentations Subject Area: Chemistry

Sl. No. Title and Authors CP-01 Development of a High-Capacitance Flexible Supercapacitor with Enhanced Cycling Stability Based on Nanotubular Polyaniline-Modified Titanium Sheet Othai Saha, Md Sanwar Hossain, Md Humayun Kabir, Sabina Yasmin CP-02 Phase Transformation in Poly(Vinylidene Fluoride) Using Porous Silica Fillers for Improved Dielectric Performance Mst. Rumana Akter, Mst. Momotaz Begam, And Saika Ahmed CP-03 Sustainable, Green Synthesis of Carbon Quantum Dots in a Net-Zero Carbon Emissions Approach Saiful Islam, Tasrina Rabia Choudhury and Mohammad Mainul Karim CP-04 Fabrication of Fe₂O₃/N, Fe Co-Doped Tio₂ Composite with Enhanced Activity for the Photocatalytic Degradation of Ciprofloxacin Under UV-Visible Light Ayrin Akter Ety, Bappy Mia and Abdus Samad CP-05 Optoelectronic **Properties** of Boron-Nitrogen Co-Doped Benzodithiophene and Benzodiselenophene: A Density Functional Theory Study Md. Enamul Haque, Joyanta K. Saha CP-06 Tio2-Coated Zn-Bi Alloy as an Advanced Anode: Reduce Dendrite Formation and Enhance Cycling Stability in Zinc-Ion Batteries Md. Sezan Ali, Juli Afrin Ananna, Md. Jahid Hasan, Sraboni Akter, Promita Poroma, And Md. Saiful Islam

CP-07	Ionic Liquid-Derived Nitrogen-Enriched Carbon Materials as Efficient and Sustainable Counter Electrodes for Dye-Sensitized Solar Cells M. R. Ali, M. H. Jihad, M. A. B. H. Susan
CP-08	In Situ Hybrid Formation of Polyoxomolybdate and Cellulose-Derived Carbon for High-Performance Supercapacitor Electrodes Salma, Md. Akib Hasan, Suhrid Sayantha Aniv, Md. Mehedi Hasan Foysal, Imran Hossain, And Md. Mominul Islam
CP-09	Controlled Synthesis of Polyaniline in Nanoscale Using Microemulsion as a Medium Mehnaj Tahnoon Pronomee, Md. Abu Bin Hasan Susan
CP-10	Environmentally Benign Fast Degradation of Basic Brown-4 And Disperse Black-9 Jannatun Naim Prithi and Md. Abdul Jabbar
CP-11	Groundwater Manganese Contamination in Brahmanbaria District: Assessment and Efficient Removal Using a Cellulose-Derived Bio-Adsorbent Md Sobur Hossain Molla, Jahed Hosen, Pradip Paul, Tapashi G. Roy, Debashis Palit, Shoji Yoshioka, Shafiqur Rahman, Kuo H. Wong, Ismail M. M. Rahman, Hiroshi Hasegawa, Foni B. Biswas
CP-12	Electrocatalytic Oxygen Reduction at N-Doped Graphite Electrode in Acidic Solution Runa Mazumder, Mohsina Tayeba, and Md. Mominul Islam
CP-13	Synergistic Redox-Conductive Interfaces in Carbon Log Supported A-MnO ₂ for High-Performance Supercapacitors Azher Uddin Mullah, Imran Hossain, Suhrid Sayantha Aniv, Md. Mehedi Hasan Foysal, Md. Akib Hasan and Md. Mominul Islam
CP-14	Functionalized Jute Fiber/Polyaniline Composites as Efficient Adsorbents for Dye-Contaminated Water Treatment Farjana Rahman, Umme Sanima Chowdhury, Shadiqul Islam Sheikh, and Md. Mominul Islam
CP-15	Indium Counter Cation-Stabilized Monophosphate Tungsten Bronzes as Robust Electrocatalysts for Efficient Acidic Oxygen Evolution Chandon Kumar Saha, Akash Pandit, Taspya Tabassum, Rowshan Yeasmin Snigdha and Md. Mominul Islam
CP-16	Cauliflower Waste-Derived Adsorbent for Efficient Removal of Alizarin Red S Dye from Water Tonmoy Mojumder, Hosne Ara Begum and Md. Safiqul Islam
CP-17	Preparation and Characterization of Graphene Decked MnO ₂ Nanoparticles as High-Performance Cathode Materials for Aqueous Zn-Ion Battery Habiba Jahan, Nusrat Tazeen Tonu, Ahammad Musa, Parbhej Ahamed, And Muhammad Abu Yousuf
CP-18	Physicochemical and Thermodynamic Properties of Double Salt Protic Ionic Liquids Based on Diethyl methylammonium Ion for High Temperature Fuel Cell Electrolyte Md. Arif Ullah, Jakia Sultana, and Muhammed Shah Miran
CP-19	Investigation of the Conformational Dynamics and Interaction Mechanisms of Antimicrobial Peptide Temporin L With Helix Promoters

	Md. Saif Uddin, S M Abdullah Al Shawal Sami, Md Rakibul Hasan, Md. Jaish Uddin, Mohammad A. Halim
CP-20	Surfactant-Assisted Self-Assembly as a Platform for Photoelectrochemical Switching of Azobenzene Sabikun Naher Sumi, Md. Akib Hasan, and Md. Abu Bin Hasan Susan
CP-21	Efficient Removal of Lead (II) From Industrial Wastewater using Thiocarbohydrazide-Functionalized Cellulose Biosorbent Jahed Hosena, Pradip Paul, Mrs. Mariam Islam, Tapashi G. Roy, Debashis Palita, Shoji, Yoshioka, Shafiqur Rahman, Kuo H. Wong, Ismail M. M. Rahman, Hiroshi Hasegawa, Foni B. Biswas
CP-22	Jute-Derived Cellulose and ZnO-Cellulose Composite as Sustainable Adsorbents for Textile Dye Removal from Aqueous Media Bishwajit Kumar Karmokar, Farhana Khanam Ferdousi, A. K. Mohiuddin and Md. Ahsan Habib
CP-23	U ₃ O ₈ Nanoparticles from Uranyl-Amino Acid Complexes: Morphology, Electrocatalyst for Oxygen Evolution Reaction, Oxidation, And Photocatalytic Properties Sumiya Ahsan, Saiful Islam, R. Y. Snigdha, Hasina Akhter Simol, Md. Mominul Islam, Pradip K. Bakshi
CP-24	Synthesis Of Magnetically Separable G-C ₃ N ₄ /Fe ₃ O ₄ /ZnO Ternary Nanocomposite for the Enhanced Photocatalytic Degradation of Antibiotics from Aqueous Media Bappy Mia, Ayrin Akter Ety, Abdus Samad
CP-25	Reactivity of Di(Pentamethylene) Thiuram Tetrasulfide (PMTT), a Vulcanization Accelerator, Towards Low and High Valent Molybdenum Centers Popy Akter, Graeme Hogarth, Jagodish C. Sarker
CP-26	Eco-Friendly Preparation of Copper Oxide Nanoparticles Utilizing Leaf Extract and Its Application As Fenton-Like Photocatalyst for Removal of Antibiotic from Aqueous Solution Avoy Kanti Mondal, Md. Anamul Haque, Samina Ahmed and Mashrafi Bin Mobarak
CP-27	Copper Diaryl-Dithiocarbamate Complexes as Single Source Precursors (SSPS) for Copper Sulfide Nanomaterials Amrita Roy, Graeme Hogarth, Jagodish C. Sarker
CP-28	Plant Extract-Mediated Synthesis of Nano-Crystallite TiO ₂ for the Efficient Photocatalytic Degradation of Textile Effluent and Antibiotics Md. Anayet Ullah, Fataha Nur Robel, Newaz Mohammed Bahadur, Muhammad Shahriar Bashar, Sanjida Khan, Md Farid Ahmed, Samina Ahmed and Md. Sahadat Hossain
CP-29	Synthesis And Unveiling Crystal Structure-Driven Properties of a Novel Organic-Inorganic Hybrid Material Mohammad Asiful Bahar, Md. Masud Rana, Belal Ahmed
CP-30	A Novel Nonenzymatic Glucose Sensor Based on Gold Nanoparticle-Antimony Oxide Composite Modified Glassy Carbon Electrode Jannatul Shahrin Ananna, Fatima Omar AL Qwairi, Mahbuba Aktary, Md. Abdul Aziz, A. J. Saleh Ahammad
CP-31	Design, Synthesis and Crystal Structure of Two Novel Transition Metal Oxyfluoride Compounds

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	Md. Masud Rana, Mohammad Asiful Bahar, Belal Ahmed
CP-32	Oxidative-Addition of Tetramethylthiuram Disulfide (Me ₄ TDS) And Monosulfide (Me ₄ TMS) at a Triosmium Center: Generation of Dithiocarbamate, Trithiocarbamate, Thiocarboxamide, and Amino-Carbyne Ligands Md. Azizul Hakim, Graeme Hogarth, Shariff E. Kabir, Jagodish C. Sarker
CP-33	Lignin Mediated Eco-Friendly Synthesis of Magnesium Oxide (MgO) Nanoparticles: Process Optimization Through Response Surface Methodology <i>Md. Naimur Rahman, Taslim Ur Rashid</i>
CP-34	Synthesis, Characterization and Antimicrobial Studies of Ruthenium(III) Complexes of an Isomeric Tetraazamacrocyclic Ligand (Tet-B) And X-Ray Crystallography of CIS-[Ni(Tet-B)(CH ₃ COO)](ClO ₄) A. Das, P. Paul, E. Panna, Md. T. Islam, F. B. Biswas, And T. G. Roy
CP-35	Sustainable Synthesis of Cow-Dung-Derived Activated Carbon as a Functional Material for
	Efficient Ferric Ion Adsorption Zahid Hasan Pilot, Sayed M A Salam, Aneek Krishna Karmakar, Md. Khairul Islam, Md. Saiful Islam and Sha Md. Shahan Shahriar
CP-36	A New Azo-Schiff Base and Its Co(II), Ni(II), and Cu(II) Complexes: Synthesis, Characterization, DFT Analysis, Chemosensing of Uranyl Ion, And Biological Activities Mehedi Hasan, Saiful Islam, Shyama Prosad Moulick, Md. Abdullah Al Zayed, Pradip K. Bakshi
CP-37	A Novel Nonenzymatic Glucose Sensor Based on Gold Nanoparticle-Antimony Oxide Composite Modified Glassy Carbon Electrode Jannatul Shahrin Ananna, Fatima Omar Al Qwairi, Mahbuba Aktary, Md. Abdul Aziz, A. J. Saleh Ahammad
CP-38	Fabrication of Fe(II)-Co(II)-Ni(II)-Based Heterometallo Supramolecular Polymer for Electrochemical Sensing of 4-Nitrophenol Najia Tahsin Kumkum, Sheikh Jakia Nur Oishee, Rakib Khan, Abdul Awal, Md. Delwar Hossain and A. J. Saleh Ahammad
CP-39	Effect of Methyl Ethyl Ketone And N-Methyl Pyrrolidone Solvents in the Purification of Waste Engine Oil by Solvent Extraction, Flocculation, and Adsorption Techniques Shaida Kabir Jaren, Md. Mahmudur Rahman
CP-40	Nickel(II) Complexes of Tetrazamacrocycle: Synthesis, Characterization, and Antibacterial Investigations T. R. Majumder, P. Paul, A. Baidya, K. Hossain, Md. A. Rahman, B. K. Dey and T. G. Roy
CP-41	In Silico Screening of Neem-Derived Phytochemicals as Potential Inhibitors of Nipah Virus Attachment Glycoprotein Toukir Biswas, Nur Mohamad, Md. Ahad Ali
CP-42	Desloratadine Inhibits the Growth of Liver Cancer Cells (SMMC-7721) By Inducing Apoptosis Through a Caspase-Dependent Pathway Syed Rashel Kabir, Mohammad Taufiq Alam
CP-43	A Synergistic Experimental and DFT Investigation of Melamine-Modified Waterborne Polyurethane Coatings Urbana Kawsar Mitali, Mohammad Mizanur Rahman, Joyanta Kumar Saha

	T
CP-44	Unravelling the Regulatory Network and Evolutionary Aspects of the ARID Gene Family of Arabidopsis Through In- Silico Analyses
	Pinki Debnath, Md. Redwan Ahmed, Nahida Akter, Rounak Jahan Raka
CP-45	Synthesis, Characterization with Stability Insights and Computational Study of a Schiff Base (Sal-OAPH ₂) And Its Cu(II) Complex Johan Hossain Sakib, Elias Ahmed, Md. Ali Hasan Misbah Uddin, Md. Qamrul Ehsan, Md. Ershad Halim
CP-46	Cellulose Acetate-Stabilized Pickering Emulsions: A Novel Platform for Active Pesticide Delivery Md Rakib Hasan, Md. Naimur Rahman, Saiful Islam and Khandoker Samaher Salem
CP-47	Poly (Acrylomido-2-Methyl-1-Propane Sulphonic Acid) Hydrogel for the Sorption of Crystal Violet Dye from Aqueous Solution: Kinetics and Thermodynamics Studies Md. Towsif Ur Rahman, Md. Anamul Haque, Sakib Hasan, Joyanta K. Saha, Mahmudur Rahman and Nafees Ahmed
CP-48	Bis-Cyanoethyl Derivative (L _{CX}) and Its Cadmium(II) Complexes: Synthesis, Characterization and Antibacterial Studies. X-Ray Crystallographic Studies Of L _{CX} . S. Rabi, A. Chakraborty, S. K. D. Gupta, D. Palit and T. G. Roy
CP-49	Morphology, Thermal Kinetics, Luminescence, Photocatalytic, Adsorption, and In-Silico DFT Studies of Uranyl (VI) Complexes of Aspartic Acid And N-Donor Ligands S M Mahfuzul Islam, Saiful Islam, Pradip K. Bakshi
CP-50	Synthesis, Characterization, and Application of the Composite Material Cebioibr With G-C ₃ N ₄ To Enhance Photocatalytic Activity SK Faisal Ahmed, Md. Ashikur Rahman Ashik, Liton Bishwas, P. C. Barman, Pial Chowdhury, Partha Pratim Nath, Rashed Mahmud, Md. Nizam Uddin
CP-51	Synthesis, Characterisation, DFT Studies, Microbial Activity of Novel Palladium Dithiocarbamates and use as Single Source Precursors of Palladium Sulfide Md. Atikul Islam, Md. Nayem Hossen, Tannith-Jade Cole, David Pugh, Md. Aminul Haque, Graeme Hogarth, Jagodish C. Sarker
	Subject Area: Physics
Sl. No.	Title and Authors
PP-01	Strain Engineering and Hybrid Functional Insights into III–V Compounds and the 2D InSe Monolayer for Advanced Electronic Applications M. T. Ahmed, M. Sabah, M. S. Islam, R. Parvin, S.H. Naqib, M. S. Ali
PP-02	Strain-Tunable Properties of GaGeSe ₃ and GaGeTe ₃ Monolayers: A DFT-Based Study M.R. Shanta, M. T. Ahmed, M. Sabah, M. S. Islam, R. Parvin, M. S. Ali
PP-03	Crystallographic And Paramagnetic Behavior of Nanocrystalline Mg-Cr-Zn Ferrites Rizwana Afrin, Kaniz Fatema Laizo and Muhammad Samir Ullah
PP-04	MoO ₃ Incorporated CoFe ₂ O ₄ Nanocomposites: Structural, Magnetic and Electrochemical Properties for Energy Storage Application Mahmudul Hasan, Kaniz Fatema Laizo and Muhammad Samir Ullah

PP-05	Influence of The Sintering Aids on The Structural and Magnetic properties of Li-Cu-Mg-Zn Ferrites Kaniz Fatema Laizo, Md. Rasel Shikder, Mahmudul Hasan, Md. Ataul Haque, Suzam Gifary and Muhammad Samir Ullah
PP-06	Impact of Dy Substitution on La-Ba Perovskite Manganites for Magnetocaloric Applications Md. Ataul Haque, Rimi Rashid, Md. Rasel Shikdar and Muhammad Samir Ullah
PP-07	Structural and Magnetocaloric Properties of La-Pb-Ba Perovskite Manganites: Exploring the Griffiths Phase Evolution Mehjabin Afroz Neha, Muhammad Samir Ullah and K. Saadat Hossain
PP-08	Optimization of SnO ₂ Electron Transport Layers for Perovskite Solar Cells via Chemical Bath Deposition: A Low-Temperature Approach Sadia Homyra, Md Ariful Islam, Ayesha Wasima Rashid, Shamima Ahmed Shetu, Md Anowar Hosen, Md Shahiduzzaman,, Aminul I. Talukder, Md Akhtaruzzaman, Ishtiaque M Sayed
PP-09	Effects of Temperature on Electroporation in Lipid Membranes using Molecular Dynamics Simulations Anika Akther and Mohammad Abu Sayem Karal
PP-10	Effect of Sintering Temperature on the Structural and Functional Properties of ZnO/NiFe ₂ O ₄ Binary Nanocomposites Synthesized by a Controlled Co- precipitation Method <i>Tanvir Hossain Fahim, Mashkawat Quader Ohee, M. S. Bashar, Iffat Nur Esha, Kazi Hanium Maria</i>
PP-11	Comprehensive First-Principles Analysis of the Structural, Electronic, Optical, and Mechanical Properties of Ti ₃ AC ₂ (A = Al, Si, Ge) MAX Phases Md. Hasnat Shahriar Shanto, Md. Riad Khan, Irfan Bin Habibi, Md. Lokman Ali, Md. Khairul Alam
PP-12	Exploring Interstitial Hydrogenation as a Strategy for Enhanced Photovoltaic and Thermoelectric Performance in Double Perovskite Cs ₂ AgSbBr ₆ Prarthona Shaha, Md. Riad Khan, Md. Emon Hassan, Md. Lokman Ali
PP-13	Pressure-Induced Structural and Electronic Modulation of LiCdH ₃ Perovskite Hydride for Energy Storage Applications Mst Israt Jahan, Md. Emon Hassan, Md. Riad Khan, Md. Khairul Alom, Md. Lokman Ali
PP-14	First-Principles investigation of Pressure-induced Structural and Superconducting Transitions in LaO Md. Mazharul Islam, Md. Hasnat Shahriar Shanto, Irfan Bin Habibi, Md. Riad Khan, Md. Hafijur Rahman, Md. Lokman Ali
PP-15	Exploring Charge Transport Layer Effects on Lead-Free NaSiCl ₃ Perovskite Solar Cells Using SCAPS-1D Simulation Md. Redwan Alam Hridoy, Zihad Hossain, Md. Riad Khan, Md. Lokman Ali

PP-16	Structural, Optical, and Electrical Properties of Pristine and Cr-Doped CuO Thin Films: A Synergistic Experimental and DFT+U Analysis Md Ashraful Islam, Dibakar Dhar, I. N. Esha, Faria Chowdhury, M. S. Bashar, Shirin Akter Jahan, Kazi Hanium Maria
PP-17	Structural, Optical, and Transport Properties of Fe-doped Manganese Dioxide Thin Films Mushfikatul Zannah, Taposhi Rabeya Binta Rashed Anika, Nawshin Tithi, Farhan Labib Fahim, Mehnaz Sharmin
PP-18	Structural, Magnetic, and Optical Properties of Octadecylalkylammonium Intercalated Montmorillonite Incorporated Calcium Ferrite Nanocomposites Sha Mohammed Sharfuddin, Md. Hedayet Ullah, Parimal Bala, Mohammad Jellur Rahman
PP-19	Pressure Induced Functional Potential of Mn ₃ ZnC Anti-Perovskite for Technological Applications <i>Irfan Bin Habibi, Md. Riad Khan, Md. Emon Hassan, Md. Lokman Ali</i>
PP-20	Computational Study of Mn ⁴⁺ -doped Luminescent Host K ₂ SiF ₆ for Applications in White Light-Emitting Diodes <i>A.R. Alif, R.K. Pramanik and M.S. Islam</i>
PP-21	Structural, Optoelectronic, Mechanical, and Thermodynamic Properties of AgMgX ₃ (X= Cl, Br): A First Principles Study Md. Jobayer Hassan, Md. Ashikur Rahman, Md. Meskat Ali, and Md. Alamgir Badsha
PP-22	Tuning Interfacial Charge Dynamics and Synergistic Electrochemical Behavior of ZnMoO4@V2O5 Heterostructure for Advanced Energy Storage device Md. Rifat Bhuiyan, Mst. Rowson Aktar and Muhammad Rakibul Islam
PP-23	Exploring the Structural, Optical, Electronic, and Photocatalytic Behavior of Ba ₂ XZO ₆ (X = La, Y; Z = Bi, Sb) Double Perovskite Semiconductors: A DFT Investigation <i>Md. Abdul Karim, Md. Jubayer Hossain, Md. Shahin Kabir, Dayal Chandra Roy</i>
PP-24	Theoretical Insights on Structural, Electronic, and Photocatalytic Properties of Ba ₂ CeMO ₆ (M = Bi, Sb) Double Perovskite Oxide Semiconductors Md. Jubayer Hossain, Md. Abdul Karim, Md. Shahin Kabir, Dayal Chandra Roy
PP-25	Enhanced Visible-Light-Driven Photocatalytic Degradation of Ciprofloxacin Antibiotic Achieved by ZnV ₂ O ₄ @NiCo-LDH Nanocomposite through Synergistic Charge Separation <i>Mst. Rowson Aktar, Md. Rifat Bhuiyan, and Muhammad Rakibul Islam</i>
PP-26	Influence of Sintering Temperature on Structural and Electromagnetic Properties of Al ³⁺ Substituted Ni-Cu Ferrites Prepared Through Sol-Gel Method. Md. Mahfuzur Rahman, Md Shajjad Khan Faisal, Md Turab Haque Payel
PP-27	Withdrawn Cu ₆ AgBiI ₁₀ Solar Cells: Optimizing Hole Transport Layers for Enhanced Efficiency Kazi Najrul Islam, Sumaya Sultana, Most. Samira Khatun, Md. Arif Ul Islam and T.Soga
PP-28	Molecular Dynamics Simulation of Edge Dislocation and Grain Boundary Effects on the Mechanical Properties of FeNiCoCrAl High Entropy Alloy Jenifar Yasmin, Sanzida Naznin Mim, Most. Meftaul Zannati Kemi, Md. Khairul Alam, Md. Lokman Ali

PP-29	Withdrawn Linking Experimentation and Simulation: Unlocking the Efficiency of Ag ₃ BiI ₆ Solar
	Cells Through Organic HTL Engineering Sumaya Sultana, Most. Samira Khatun, Kazi Najrul Islam, Md. Arif Ul Islam and T. Soga
PP-30	Pressure-Driven Bandgap Modulation in Lead-Free Double Perovskite Cs ₂ AgSbCl ₆ : Insights from TB-mBJ Based First-Principles Study <i>Mohammad Abdur Rashid, Md. Borhanul Asfia, Sahadat Jaman,</i>
PP-31	Exploring the Superconducting Properties of Al ₂ CN Using First- Principles Calculations Tanu Saha and Alamgir Kabir
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