

Conference of Bangladesh Crystallographic Association

Zoom Webinar/Meeting Link Summary

Timings are Bangladesh Standard Time (BST)

Session	Time	Date	Meeting ID/Link
Inauguration	18:00–18:30	14.01.2021	https://bdren.zoom.us/j/64936472976 Webinar ID: 649 3647 2976
Plenary Lecture: PL 01-03	18:40–20:20		
Session: I	10:00–12:40	15.01.2021	
Session: III	15:00–16:40		
Plenary Lecture: PL 04-05	18:30–19:30		
Poster Session	19:40–21:00	16.01.2021	
Session: V	10:00–12:30		
Session: VII	14:30–16:30		
Plenary Lecture: PL 06-07	18:30–19:35		
Closing	19:40–20:10		
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Session: II	10:00–12:40	15.01.2021	https://bdren.zoom.us/j/63676807977 Webinar ID: 636 7680 7977
Session: IV	15:00–16:40		
Session: VI	10:00–12:30	16.01.2021	
Session: VIII	14:30–16:30		

6th Conference of Bangladesh Crystallographic Association

Venue: Zoom online platform

Date: Friday – Saturday, 15-16 January 2021

Programme Summary

Timings are Bangladesh Standard Time (BST)

BST

14 January 2021 (Thursday)

ZOOM link: <https://bdren.zoom.us/j/64936472976>

18:00 - 18:30 Inauguration

18:40 - 20:20 Plenary Lectures

18:40 - 19:10 Plenary Lecture – PL 01

19:15 - 19:45 Plenary Lecture – PL 02

19:50 - 20:20 Plenary Lecture – PL 03

Day 1		15 January 2021 (Friday)	
BST	Morning Session		
10:00-12:40	Session – I: Materials Science & Functional Materials-I ZOOM link: https://bdren.zoom.us/j/64936472976	Session-II Structural Chemistry & Structural Physics ZOOM link: https://bdren.zoom.us/j/63676807977	
10:00-10:15	IL-01	10:00-10:15	IL-04
10:15-10:30	IL-02	10:15-10:30	IL-05
10:30-10:45	IL-03	10:30-10:45	IL-06
10:45-11:00	Break	10:45-11:00	Break
11:00-11:10	MSFM 01	11:00-11:10	SCSP 01
11:10-11:20	MSFM 02	11:10-11:20	SCSP 02
11:20-11:30	MSFM 03	11:20-11:30	SCSP 03
11:30-11:40	MSFM 04	11:30-11:40	SCSP 04
11:40-11:50	MSFM 05	11:40-11:50	SCSP 05
11:50-12:00	MSFM 06	11:50-12:00	SCSP 06
12:00-12:10	MSFM 07	12:00-12:10	SCSP 07
12:10-12:20	MSFM 08	12:10-12:20	SCSP 08
12:20-12:30	MSFM 09	12:20-12:30	SCSP 09
		12:30-12:40	SCSP 10
12:30-15:00	Break	12:40-15:00	Break
15:00-16:40	Afternoon Session Session-III Energy Related Materials ZOOM link: https://bdren.zoom.us/j/64936472976	15:00-17:00 Session-IV Mineralogy & Composites ZOOM link: https://bdren.zoom.us/j/63676807977	Afternoon Session
15:00-15:15	IL-07	15:00-15:15	IL-09
15:15-15:30	IL-08	15:15-15:30	IL-10
		15:30-15:45	IL-11
15:30-15:40	Break	15:45-16:00	Break
15:40-15:50	ERM 01	16:00-16:10	MC 01
15:50-16:00	ERM 02	16:10-16:20	MC 02
16:00-16:10	ERM 03	16:20-16:30	MC 03
16:10-16:20	ERM 04	16:30-16:40	MC 04
16:20-16:30	ERM 05	16:40-16:50	MC 05
16:30-16:40	ERM 06	16:50-17:00	MC 06
16:40-18:30	Break	17:00- 18:30	Break

- 18:30-19:30 **Evening Session: Plenary Lectures**
ZOOM link: <https://bdren.zoom.us/j/64936472976>
- 18:30-19:00 Plenary Lecture – PL 04
 19:05-19:35 Plenary Lecture – PL 05
- 19:40-21:00 **Poster Session**
ZOOM link: <https://bdren.zoom.us/j/64936472976>

Day 2		16 January 2021 (Saturday)	
BST	Morning Session		
10:00-12:30	Session-V Materials Science & Functional Materials-II ZOOM link: https://bdren.zoom.us/j/64936472976	Session-VI Small & Macro Molecules ZOOM link: https://bdren.zoom.us/j/63676807977	
10:00-10:15	IL-12	IL-15	
10:15-10:30	IL-13	IL-16	
10:30-10:45	IL-14	IL-17	
10:45-11:00	Break		
11:00-11:10	MSFM 10	SMM 01	
11:10-11:20	MSFM 11	SMM 02	
11:20-11:30	MSFM 12	SMM 03	
11:30-11:40	MSFM 13	SMM 04	
11:40-11:50	MSFM 14	SMM 05	
11:50-12:00	MSFM 15	SMM 06	
12:00-12:10	MSFM 16	SMM 07	
12:10-12:20	MSFM 17	SMM 08	
12:20-12:30	MSFM 18	SMM 09	
12:30 - 14:30	Break		
14:30-16:30	Afternoon Session		
	Session-VII Interdisciplinary ZOOM link: https://bdren.zoom.us/j/64936472976	Session-VIII Drug Design ZOOM link: https://bdren.zoom.us/j/63676807977	
14:30 - 14:45	IL-18	14:30 - 14:45	IL-21
14:45 - 15:00	IL-19	14:45 - 15:00	IL-22
15:00 - 15:15	IL-20	15:00 - 15:10	Break
15:15-15:30	Break	15:10-15:20	DD 01
15:30 - 15:40	ID 01	15:20 -15:30	DD 02

15:40-15:50	ID 02	15:30-15:40	DD 03
15:50-16:00	ID 03	15:40-15:50	DD 04
16:00-16:10	ID 04	15:50-16:00	DD 05
16:10-16:20	ID 05	16:00-16:10	DD 06
16:20-16:30	ID 06		
16:30 - 18:30	Break	16:10-18:30	Break
16:30 -	Annual General Meeting (AGM-2020) <u>BCA members only.</u>		
	Evening Session:Plenary Lectures		
	ZOOM link:		
	https://bdren.zoom.us/j/64936472976		
18:30 - 19:00	Plenary Lecture – PL 06		
19:05 - 19:35	Plenary Lecture – PL 07		
19:40-20:10	Closing		
	ZOOM link: https://bdren.zoom.us/j/64936472976		

Programme in Details

Timings are Bangladesh Standard Time (BST)

14 January 2020 (Thursday)

Venue	Zoom Online Platform
Inauguration	18:00 – 18:30 ZOOM link: https://bdren.zoom.us/j/64936472976
Welcome address	Prof. A. K. M. Akther Hossain Convener, Scientific Sub-committee
Address by the General Secretary of BCA	Prof. Md. Aftab Ali Shaikh , General Secretary BCA
Address by the Guest of Honour	Prof. Sven Lidin , President, IUCr
Address by the Chief Guest	Prof. AK Azad Chowdhury , President BAS
Address by the Chair	Prof. Altaf Hussain , President, BCA
Vote of Thanks	Prof. Muhammed Shah Miran , Secretary, Organizing Committee

Session: Plenary Lectures

ZOOM link: <https://bdren.zoom.us/j/64936472976>

Session Chairs: Prof. Altaf Hussain (DU), and Prof. Aftab Ali Shaikh (DU)

Plenary Lecture – 01 PL-01	18:40 - 19:10 Prof. Sven Lidin , Lund University, Sweden Title: New Chimney Ladder type compounds – challenges for structural elucidation
Plenary Lecture – 02 PL-02	19:15 – 19:45 Prof. Hitoshi Tabata , University of Tokyo, Japan Title: Ultimate Nano-structural Controlled Functional Metal Oxides for the Non-Invasive and Ultra-High Sensitive Body Gas Sensors. – Electric Nose-
Plenary Lecture – 03 PL-03	19:50 – 20:20 Prof. Shariff E. Kabir , Jahangirnagar University, Bangladesh Title: Structural, spectroscopic and thermolytic studies on bimetallic Os–Sn and related Os–E (E = Ge, Si) clusters bearing a metalated 4-methyl quinoline ligand

Day 1 **15 January 2020 (Friday)**
Session – I: Materials Science and Functional Materials-I
 ZOOM link: <https://bdren.zoom.us/j/64936472976>

Venue	Zoom Online Platform
Time	10:00 – 12:30
Chairs	Prof. Shamima K. Choudhury (DU), and Prof. ParimalBala (JnU)
Invited Lecture– 01	10:00-10:15
IL-01	Optical second harmonic generation (SHG) microscopy of spider silk, <i>GoroMizutani, Zhao Yue, and KhuatThi Thu Hien</i>
Invited Lecture– 02	10:15-10:30
IL-02	Investigation of metal-insulator transition properties for the phase-separated electronic domains in strongly correlated oxides, <i>Azusa N. Hattori</i>
Invited Lecture – 03	10:30-10:45
IL-03	Bandgap engineering of iron oxide semiconductors for solar energy harvesting, <i>Munetoshi Seki</i>
Break	10:45-11:00
Contributory Papers	11:00 – 12:30 [10 minutes each paper]
MSFM 01	Study of the structural, magnetic, dielectric, ferroelectric, and magnetoelectric property of lead-free xLNCZFO+(1-x) BGTDO multiferroic composites <i>Mithun Kumar Das and A.K.M. Akther Hossain</i>
MSFM 02	Synthesis of Vanadium Substituted Mn-Zn ferrites: A Study of their Cationic Distribution and Electromagnetic Properties <i>A. Hossain, I. N. Esha, I. B. Elius, M. N. I. Khan and Kazi Hanium Maria</i>
MSFM 03	Structural and magnetic properties of Gd ₂ FeCrO ₆ double perovskites <i>M. D. I. Bhuyan and M. A. Basith</i>
MSFM 04	Tailoring (1-x) BaTi _{0.5} Mn _{0.5} O ₃ - (x) Ni _{0.6} Zn _{0.4} Fe _{1.85} Sm _{0.15} O ₄ Multiferroic Composites to Explore its Electromagnetic and Resistive Properties

	<i>KhairunnaharMunny, Iffat Nur Esha, Nazrul Islam Khan and KaziHanium Maria</i>
MSFM 05	Substitution of V in Vanadium(V) Oxi-Phosphate with the combination of V ⁴⁺ /Nb ⁵⁺ /W ⁶⁺ <i>Subrata Chandra Roy, LiluferYeasmin, Mahmudur Rahman</i>
MSFM 06	Hydroxyapatite, a Wet Chemically Precipitated Nanoparticle Characterized with Hydroxyapatite/Chitosan-Gelatin Based Bone Scaffold for Orthopedic Application <i>SajibMohonta, Kazi Maria, Sharmin Rahman, Harinarayan Das and Sheikh Hoque</i>
MSFM 07	Mixed polaron hopping type ac conductivity in 0.8BST + 0.2LCCZFO multiferroic composite: analysis and interpretation <i>Roksana Parvin, A.A. Momin, Sharifa Nasrin and A.K.M. Akther Hossain</i>
MSFM 08	High CO ₂ adsorption selectivity from flue gas by nitrogen contain polymer <i>Md. Nuruzzaman and Md. Sharif Khan</i>
MSFM 09	Investigation on structural, optical and PL activity of a transition metal ion doped vanadate <i>KamniPathania</i>

Session – II: Structural Chemistry and Structural Physics

<https://bdren.zoom.us/j/63676807977>

Venue	Zoom Online Platform
Time	10:00 – 12:40
Chairs	Prof. Shariff E. Kabir (JU), and Prof. Claus H. Rüscher (HU)
Invited Lecture– 04	10:00-10:15
IL-04	Copper(II), nickel(II) and cobalt(III) complexes of an aryl substituted macrocyclic ligand: Synthesis, characterization and antimicrobial activities, <i>Tapashi Ghosh Roy</i>
Invited Lecture – 05	10:15-10:30
IL-05	Preparation of Polymer Nanocomposites with Tunable Size and Distribution from Water-in-Oil Microemulsions, <i>Md. Abu Bin Hasan Susan</i>
Invited Lecture – 06	10:30-10:15
IL-06	Strategy to Elucidate Complex Structures of Natural Products Chemistry,

Break	10:45-11:00	
Contributory Papers	11:00 – 12:40	[10 minutes each paper]
SCSP 01	Rietveld refinement analysis and magnetoelectric coupling in $x\text{Ni}_{0.48}\text{Cu}_{0.12}\text{Zn}_{0.40}\text{Gd}_{0.04}\text{Fe}_{1.96}\text{O}_4 + (1-x)\text{Ba}_{0.985}\text{Ca}_{0.015}\text{Zr}_{0.10}\text{Ti}_{0.90}\text{O}_3$ composites <i>Bablu Chandra Das, Harinarayan Das, M. A. Matin and A. K. M. Akther Hossain</i>	
SCSP 02	Cooperative π -stacked Ternary Assemblies involving discrete Water Clusters in Ni(II) Compounds: Anticancer Activities and Theoretical Studies <i>Pranay Sharma and Manjit K. Bhattacharyya</i>	
SCSP 03	Structural insights of a menthol-based therapeutic deep eutectic solvent <i>Md Ackas Ali, Md Sajjadur Rahman, Ranen Roy and Mohammad A. Halim</i>	
SCSP 04	Effect of Bi Substitution on the Structural, Dielectric and Electrical Properties of BaTiO ₃ Ceramics <i>Arijun Nahar, Mahabub Alam Bhuiyan, Mohammad Jellur Rahman, Shamima Choudhury</i>	
SCSP 05	Effect of Mn ²⁺ substitution on structural, morphological, and electrical properties of Ba _{0.4} Ca _{0.4} Sr _{0.2} Mn _x Ti _{1-x} O ₃ perovskites <i>Ayesha Akter, M. N. I Khan, Shamima Choudhury and Armin Anwar</i>	
SCSP 06	Synthesis and Structural Characterization of Zn doped Cobalt Ferrite (CoZn _x Fe _{2-x} O ₄) <i>Amrita Khan; Golam Dastegir Al-Quaderi; Mahabub Alam Bhuiyan; Kazi Hanium Maria; and Shamima Choudhury</i>	
SCSP 07	Morphology, Structure and Optical Properties of Thermal Evaporated Copper (Cu)-Doped Zinc Selenide (ZnSe) Thin Films with Variation of Thickness <i>Md Mustafizur Rahman, Kazi Md Amjad Hussain, Md. Mahafuzur Rahaman and Shamima Choudhury</i>	
SCSP 08	Crystal chemistry and environmental application of boehmite (γ -AlOOH) nanoparticles <i>Md. Aminul Islam, David W. Morton, Bruce B. Johnson, Michael J. Angove</i>	
SCSP 09	Heteroleptic Pd(II)-Chiral-Schiff Bases Complexes: Synthesis, Diastereoselection and Chirality Induction At-Metal, Crystal Structures, Spectroscopy and DFT/TDDFT	

SCSP 10	<i>Nazanin Kordestani, Hadi Amiri Rudbari, Mohammad Khairul Islam, Mohammed Enamullah</i> From molecules to materials: Structural landscape of zinc terephthalates grown from solution <i>Manisha Jadon, Manju Srivastava, Prasun Roy, Arunachalam Ramanan</i>
Break	12:40-15:00

Session – III: Energy Related Materials

ZOOM link: <https://bdren.zoom.us/j/64936472976>

Venue	Zoom Online Platform
Time	15:00 – 16:40
Chairs	Prof. Hidekazu Tanaka , Osaka University, and Prof. A.K.M. Akther Hossain , BUET
Invited Lecture – 07	15:00-15:15
IL-07	Bond length turning in CuO thin films through Mn doping via thermal spray pyrolysis, <i>Jiban Podder</i>
Invited Lecture – 08	15:15-15:30
IL-08	The discovery of ferroelectricity in HfO ₂ , <i>Jordan Bouaziz, Nicolas Baboux, Pedro Rojo Romeo, Bertrand Vilquin</i>
Break	15:30-15:40
Contributory Papers	15:40 – 16:40 [10 minutes each paper]
ERM 01	Evolution of Highly Stable and Luminescent CsPbX ₃ (X = Cl, Br, and I) Nanoplates via Ligand Mediated Anion Exchange of CsPbCl ₃ Nanocubes with AlX ₃ <i>Md Aslam Uddin, Justin D. Glover, So Min Park, Jonathan T. Pham and Kenneth R. Graham</i>
ERM 02	Role of Fast Ion Transportation and Dehydration of Cations Enhancing Capacitive Performance at Graphene-aqueous Interface <i>Sharifa Faraezi, Md Sharif Khan and Tomonori Ohba</i>
ERM 03	Effect of Solvent Orientation and Cationic Size on the Capacitive Behavior of Organic Electrolyte Based Energy Storage Systems <i>Farhana Sharmin, Sharifa Fararezi, A M Mahmudul Hasan, AnggonBarua, TasnimFerdous and Md Sharif Khan</i>

ERM 04	Development of a High-Performance Carbon-Based Counter Electrode for Dye-Sensitized Solar Cell <i>A M Mahmudul Hasan and Md. Abu Bin Hasan Susan</i>
ERM 05	Solar PV performance analysis in global regions with a concern of overheat <i>Md. Touhidul Imam and A. A. Md. Monzur-Ul-Akhir</i>
ERM 06	Effects of metal-doping on the physical properties of non-toxic CsSnCl ₃ metal halide perovskites <i>Jakiul Islam and A.K.M. Akther Hossain</i>
Break	16:40-18:30

Session – IV: Mineralogy and Composites

<https://bdren.zoom.us/j/63676807977>

Venue	Zoom Online Platform
Time	15:00 – 16:40
Chairs	Prof. Thorsten M. Gesing , University of Bremen, and Prof. Jiban Podder , BUET
Invited Lecture – 09	15:00-15:15
IL-09	Carbon dioxide and (basic) hydrosodalites - template configuration as key factor for CO ₂ trapping features, <i>Irma Peschke, Claus Henning Rüscher and Josef-Christian Buhl</i>
Invited Lecture – 10	15:15-15:30
IL-10	An effective liquid phase exfoliation approach to prepare transition metal dichalcogenides 2D nanoflakes for gas sensing applications, <i>KaziHanium Maria</i>
Invited Lecture – 11	15:30-15:45
IL-11	Poly (brilliant cresyl blue)-reduced graphene oxide modified activated GCE for nitrite detection: Analyzing the synergistic interactions through experimental and computational study, <i>A. J. Saleh Ahammad, Md. KawsarAlam, Tamanna Islam, Md. Mahedi Hasan, Rejwana Karim, Anjuman Nesa Anju, M.N. Islam Mozumder</i>
Break	15:45-16:00
Contributory Papers	16:00 – 17:00 [10 minutes each paper]

- MC 01 Cuprophilic interactions and Encapsulation of water chains in Novel Hexanuclear and Polymeric Coordination Compounds: Antiproliferative Evaluation and Theoretical Studies
Hiren Nath, Debajit Dutta, Manjit K Bhattacharyya
- MC 02 Crystallographic, spectral and computational studies on (S)-(E)-4-[4-(benzylidene-amino)-benzyl]-oxazolidin-2-one
Manikandan. D, Swaminathan. J, SharmilaTagore. S, Ramalingam. M, Sethuraman. V
- MC 03 Diastereoselection and chirality induction at-metal in bis[(R or S)-2-((E)-1-(1-(Ar)ethylimino)ethyl)phenolato-κ²N,O]-Λ/Δ-copper(II): Synthesis, spectroscopy, molecular structure, electrochemistry, hydrolysis, PXRD and DFT/TDDFT
Mohammed Enamullah, Mohammad Anwar, Mohammad Khairul Islam, Dennis Woschko, Christoph Janiak
- MC 04 Application of [IrI(PPh₃)₃Cl]complex to achieve C-H activation by using 2-(naphthyl-1'-azo)-4-methylphenoland 2-(naphthyl-2'-azo)-4-methylphenolligand
Abhisek Saha
- MC 05 Manual interruption to identify six streaks of a twin-crystalline peaks with XRD having angular constraint
A. A. Md. Monzur-Ul-Akhir, Masayuki Mori and Koichi Maezawa
- MC 06 Study the structural and electromagnetic properties of (1-y) [Ba_{0.9}Ca_{0.1}Zr_{0.1}Ti_{0.9}O₃] + (y) [Ni_{0.25}Cu_{0.13}Zn_{0.62}Fe₂O₄] composites
Sharifa Nasrin, A.K.M. Akther Hossain, Md. D. Rahaman

Break 17:00-18:30

Plenary Lectures

ZOOM link: <https://bdren.zoom.us/j/64936472976>

Venue	Zoom Online Platform
Time	18:30 – 19:35
Chairs	Prof. C. Malla Reddy (IISER), and Prof. Tapashi Ghosh Roy, CU
Plenary Lecture – 04	18:30-19:00

- PL-04** Prof. Hidekazu Tanaka, Institute of Scientific and Industrial Research, Osaka University, Japan
Title: Control of electrical properties on transition metal oxide thin films via protonic-electronic coupling
- Plenary Lecture – 05** **19:05-19:35**
- PL-05** Prof. Graciela Diaz de Delgado, Universidad de Los Andes, Venezuela
Title: Investigating polymorphs, salts, solvates, and metal derivatives of Active Pharmaceutical Ingredients

Poster Session

ZOOM link: <https://bdren.zoom.us/j/64936472976>

Venue	Zoom Online Platform
Time	19:40 – 21:00
Chairs	Prof. S. H. Firoz (BUET), Prof. Muhammed Shah Miran (DU), Prof. Syed Jamal Ahmed (DUET), and Dr. Md. Nazrul Islam Khan (BAEC)
PP 01	Antitumor and Antimicrobial Potential of a Lectin Purified from <i>Amaranthus gangeticus</i> Seeds <i>Imtiaj Hasan, Sharif Nasibur Rahman, Mahenur Islam, Sourav Ghosh, Mizanur Rahman Mamun and Syed Rashel Kabir</i>
PP 02	Silver Chloride Nanoparticles from Seaweed (<i>Hypneamusciiformis</i>) Extract inhibit human cervical, colorectal and breast cancer cell line <i>Rita Ghose, A. K. M. Asaduzzaman, Imtiaj Hasan and Syed Rashel Kabir</i>
PP 03	Identification of effective antiviral drugs from Remdesivir analogs against SARS-CoV-2 RNA dependent RNA polymerase through molecular modeling approach <i>Sinthyia Ahmed, Rumana Mahtarin, Md. Shamiul Islam, Susmita Das, Abdulla Al Mamun, Sayeda Samina Ahmed, Md Ackas Ali, and Mohammad A. Halim</i>
PP 04	Biogenic silver/silver chloride nanoparticles inhibit human pancreatic cancer cells growth by the induction of apoptosis <i>Syed Rashel Kabir</i>
PP 05	Eco-friendly amorphous binders, geopolymers: impact on the sturdiness of mortars and (high performance) concretes compared to crystalline csh-phases <i>Constantin Lübbe, Marvin Schobel, Philipp Wiegel and Claus Rüscher</i>

- PP 06 Experiments on hydrogen release of H₂O containing [BH₄]-sodalites using different atmospheric conditions
Marie Bode, Benedict Hagel, Pascal Oelkers and Claus Rüscher
- PP 07 Influence of sintering treatment on the permeability of Li-Ni-Zn ferrite
Rakibul Hassan, Mithun Kumar Das, A.K.M. Akther Hossain
- PP 08 Computational Investigations of Strontium and Nickel Doped Barium Titanate
Mehedi Hasan and A. K. M. Akther Hossain
- PP 09 Role of Holmium in the Structural, Magnetic and Dielectric Properties of Mn-Zn Ferrites
Nila Rani Kundu, Mithun Kumar Das and A. K. M. Akther Hossain
- PP 10 Taro carbon modified glassy carbon electrode (TC-GCE) for simultaneous determination of hydroquinone and catechol
Nasrin Sultana, S.M. Abu Nayem, Tamanna Islam, Mahedi Hasan, Subrata Chandra Roy, Md Abdul Aziz and A.J. Saleh Ahammad
- PP 11 Simultaneous detection of hydroquinone and catechol based on porous Tal palm carbon nanosheets modified glassy carbon electrode
S. M. Abu Nayem, Nasrin Sultana, Tamanna Islam, Mahedi Hasan, Md Abdul Aziz and A. J. Saleh Ahammad
- PP 12 Interaction of lysozyme and single-wall Carbon Nanotube: Insights from Molecular Dynamics Simulations
Aktiya Anjum Nishat, Md. Ackas Ali, Faiyaz Md. Efaz, Md. Minhas Hossain Sakib, Mohammad A. Halim
- PP 13 Preparation and characterization of nitrogen-doped carbon and its electrochemical applications
Md. Mahmudur Rahman, Joy Basak, Md. Mominul Islam, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan and Muhammed Shah Miran
- PP 14 Supramolecular assemblies in Ni(II) and Zn(II) Coordination Compounds involving Unconventional nitrile based interactions: Antiproliferative Evaluation and Theoretical Studies
Amal Das and Manjit Kumar Bhattacharyya
- PP 15 Unconventional Enclathration of 4-NO₂bz and a single guest water molecule in Phenanthroline based Ni(II) and

- Cu(II) Hosts: Anticancer activities and Theoretical studies
PinkuSarma, Pranay Sharma and Manjit K. Bhattacharyya
- PP 16 Unique H-bonded Guest (H₂O)₈ Chains in a Fumarato bridged Polymeric Ni(II) Phenanthroline Coordination Compound: Antiproliferative Evaluation and Theoretical studies
Debasish Dutta, Pranay Sharma, Hiren Nath and Manjit K. Bhattacharyya
- PP 17 Antiviral and antifungal drugs targeting Papain-like Protease (PLpro) using Steered and Conventional Molecular dynamics Simulations
Sayed Samina Ahmed, FarjanaAkter, Nabila Tabassum Tasfia, ShailaAkter, Md Ackas Ali, Md Abu Sufian and Mohammad A. Halim
- PP 18 Designing Potent Inhibitors against Transmembrane Serine Protease 2 to halt SARS-CoV-2 Entry
Abdulla Al Mamun, FarjanaAkter, Maksud Khan, Sayeda Samina Ahmed, Md. Giash Uddin, Nabila Tabassum Tasfia, Faiyaz Md. Efaz, Md. Nayeem Hossain, Md Ackas Ali, MossammadUmme Chand Sultana and Mohammad A. Halim
- PP 19 Designing fusion inhibitor peptides against SARS-CoV-2
Faiyaz Md. Efaz, Shafiqul Islam, Shafi Ahmed Talukder, ShailaAkter, Zakaria Tashrif, Md. Ackas Ali, Md. Abu Sufian, Md. Jahirul Islam and Mohammad A. Halim
- PP 20 Large Scale Screening of the Antiviral Peptides to Inhibit the - SARS-CoV-2 Entry
Md. Minhas Hossain Sakib, Atkiya Anjum Nishat, Mohammad Tarequal Islam, Mohammad Abu Raihan Uddin, Md Shahriar Iqbal, Farhan Fuad Bin Hossen, Mohammad Imran Ahmed, Md Samiul Bashir, Takbir Hossain, Umma SumiaTohura, Saiful Islam Saif, Nabila Rahman Jui, MosharafAlam, Md. Aminul Islam, Md. Mehadi Hasan, Md. Abu Sufian, Md. Ackas Ali, Rajib Islam and Mohammad A. Halim
- PP 21 Antiviral Peptide Inhibitors against Zika Virus NS₂B-NS₃ Protease
Sadia Afrose, Mohammad Mehedi Hasan, Md. Tanjil Islam Shovon, Md. Shahoriar Nazir, Fahmida Akhter, Fuad Taufiqul Hakim, Md. Rafid Hasan, SabihaTasnim, Md. Shahadat Hossain, Sumit Kumar Baral and Mohammad A. Halim

- PP 22 Designing Favipiravir Derivatives against RNA dependent RNA polymerase of SARS-CoV-2
Zannatul Ferdous Sonia, Md Ackas Ali, Md. Mahbubur Rahman and Mohammad A. Halim
- PP 23 Synthesis-Structure-Property Correlation in Manganese Dicarboxylates Based Coordination Polymers
B. Singh and A. Ramanan

Day 2 16 January 2020 (Saturday)
Session – V: Materials Science and Functional Materials-II

ZOOM link: <https://bdren.zoom.us/j/64936472976>

Venue	Zoom Online Platform
Time	10:00 – 12:30
Chairs	Prof. Al-Nakib Chowdhury (BUET), and Prof. Md. Abu Bin Hasan Susan (DU)
Invited Lecture – 12	10:00-10:15
IL-12	Effects of micro/nano size TiO ₂ addition on Pure Hydroxyapatite, <i>M A Gafur</i>
Invited Lecture – 13	10:15-10:30
IL-13	Study of solid solution series in the system M ₂ O-V ₂ O ₅ -WO ₃ (M=Rb, Cs) <i>Tapas Debnath, Istiak Hossain, Habiba Tashnim, Claus H Rüscher and Altaf Hussain</i>
Invited Lecture – 14	10:30-10:45
IL-14	Thermodynamically metastable polymorphs of VPO ₄ , <i>Subrata Chandra Roy</i>
Break	10:45-11:00
Contributory Papers	11:00 – 12:30 [10 minutes each paper]
MSFM 10	Electrochemical investigation of heavy metal ions by ionic liquid (1-butyl-3-methylimidazolium hexafluorophosphate) modified carbon paste electrodes <i>Md. Mazharul Islam and Chanchal Kumar Roy</i>

- MSFM 11 Dye-sensitized solar cells with reduced graphene oxide as the counter electrode prepared by a facile thermal reduction process
Md. Nizam Uddin, Md. Shamim Rahaman, Tasfia Tabassum Asha, Md. Nazmul Haque Nuri, Md. Rashedul Rahman and Nazmul Haque
- MSFM 12 Synthesis and Characterization of Rare Earth Modified Bismuth Iron Oxide and Lithium Nickel Manganese Ferrite Multiferroic Composites
Abdulla Al-Momin and A.K.M. Akther Hossain
- MSFM 13 A Comparative Study Based on the Variation of Anodic and Cathodic Materials for Quantum Dot Sensitized Solar Cell Aiming it's Better Performance
Tasfia Tabassum Asha, Md. Shamim Rahaman, Md. Nazmul Haque Nuri, Md. Rashedul Rahman, Nazmul Haque and Md. Nizam Uddin
- MSFM 14 Acid activated kaolinite/ZnO composite for photodegradation of methylene blue in aqueous solution
Md. Fardin Ehsan, Md. Mominul Islam, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan and Muhammed Shah Miran
- MSFM 15 Synthesis, Characterization and biological activities of metal complexes of an N-pendent derivative of an isomeric macrocyclic ligand
Lucky Dey, Md. N. Uddin, Md. I. Morshed S. K. S. Hazari, T. G. Roy
- MSFM 16 Zinc(II) complexes with hexamethyl-tetraazamacrocyclic ligands: Synthesis, characterization and antibacterial investigations
Sabina Yasmin, S. Alam, A. Chakrabarty, L. Barua, T. G. Roy
- MSFM 17 Rhodium(III) and platinum(II) complexes of tetraazamacrocyclic ligands: Synthesis, characterization, antimicrobial investigation and X-ray analysis of free diene ligand
Saswata Rabi, D. Palit, T. G. Roy
- MSFM 18 Electrical Properties of V₂O₅ added Ni-Co-Zn Ferrites
M. Firoz Uddin, Sm. Rubayatul Islam, R. Satara, S. Manjura Hoque and M. Samir Ullah

Break

12:30-14:30

Session – VI: Small and Macro Molecules

<https://bdren.zoom.us/j/63676807977>

Venue	Zoom Online Platform
Time	10:00 – 12:30
Chairs	Prof. Muhammad Qumrul Hassan (DU) and Prof. Md. Mominul Islam (DU)
Invited Lecture – 15	10:00-10:15
IL-15	Structural Diversity in Metal-oxotetrate Coordination Architectures Sustained by Hydrogen Bond, <i>Kafeel Ahmad Siddiqui</i>
Invited Lecture – 16	10:15-10:30
IL-16	Can a multi-component crystal formation between any two given compounds be predicted? <i>Tejender S. Thakur</i>
Invited Lecture– 17	10:30-10:45
IL-17	Exploring Co-crystallization in Organic Solid State Chemistry <i>Deepak Chopra</i>
Break	10:45-11:00
Contributory Papers	11:00 – 12:30 [10 minutes each paper]
SMM 01	Step-wise synthesis of polymer network using click chemistry and their computational study <i>Md. Kausar Ahmed, AjoyKumer and Abu Bin Imran</i>
SMM 02	Crystal structure determination, Hirshfeld surfaces analysis, Energy Framework investigation, and evaluation of the anticancer activity of (3E)-3-[(2E)-3-[4-(dimethylamino) phenyl] prop-2-enylidene}-2, 3-dihydro-4h-chromen-4-one <i>G. Usha</i>
SMM 03	Rational design of Chemokine CXCL13 to produce High-Affinity CXCR5 Antagonist <i>Manjula Ramu, Eric Rosenberg, Bryce Nelson and Elias Lolis</i>
SMM 04	Structural Characterization of Chitin Synthase-5 Saprolegnia parasitica in a Phospholipid Bilayer by Computational Approach <i>Md. Rubel Hossen, Sourav Biswas, Shaila Akter, Md. Ackas Ali, M obayed Ullah, and Mohammad A. Halim</i>

SMM 05	Effects of osmotic pressure on the irreversible electroporation in giant lipid vesicles <i>Malay Kumar Sarkar, Marzuk Ahmed, Md. Kabir Ahamed, Shareef Ahammed, Mohammad Abu SayemKaral and Sayed Ul AlamShibly</i>
SMM 06	Dual Filtration in Purification Controls the Size Distribution of Giant Vesicles <i>Tawfika Nasrin, Salma Akter, Shareef Ahammed, Marzuk Ahmed, Md. Kabir Ahamed and Mohammad Abu SayemKaral</i>
SMM 07	Cloning, Optimization of Protein solubility and purification of Human Interferon Regulatory Factor 6 <i>Binita Kumari Sinha, Sonali Ranjan, Sanju Kumari Singh and Tara Kashav</i>
SMM 08	Homology Modeling, Molecular Dynamics and Docking Studies of ORF3a in SARS- COV-2 <i>Shaila Akter, Md. Jahirul Islam, Shafiqul Islam, Rumana Mahtarin, Md Ackas Ali, M. Obayed Ullah and Mohammad A. Halim</i>
SMM 09	Hetero-Structured Polyoxometalate Electrocatalysts for Oxygen Evolution Reaction in Acidic Media <i>Mousumi Saha, Md. Imran Hossain, Md. Abu Bin Hasan Susan and Md. Mominul Islam</i>
Break	12:30-14:30

Session – VII: Interdisciplinary

ZOOM link: <https://bdren.zoom.us/j/64936472976>

Venue	Zoom Online Platform
Time	14:30 – 16:30
Chairs	Prof. M. Yousuf Ali Mollah(DU) and Prof. Deepak Chopra (IISER, India)
Invited Lecture – 18	14:30-14:45
IL-18	Periodic trend of stereochemical activity of lone electron pairs, <i>M. MangirMurshed, Thorsten M. Gesing</i>
Invited Lecture – 19	14:45-15:00
IL-19	Influence of alumina on the compressive strengths and microstructural properties of the acid-based geopolymers from calcined laterite and metakaolin, <i>Hervé K. Tchakouté, Christelle N. Bewa, Cedric M. Dieuhou, Claus H. Rüschler</i>
Invited Lecture– 20	15:00-15:15

IL-20 A Tale of the Discovery of Multi-Stimuli Responsive Materials,
Naba K. Nath

Break **15:15-15:30**

Contributory Papers **15:30 – 16:30** [10 minutes each paper]

ID 01 Impact of Highly Mutated SNP in the SARS-CoV-2 ORF8 Protein: Insight from Microsecond Molecular Dynamics Simulation Study

Shafiqul Islam, Md. Rimon Parves, Md. Jahirul Islam, Md Ackas Ali, M. Obayed Ullah and Mohammad A. Halim

ID 02 Modelling studies on LEA protein - DR0105 from *Deinococcus radiodurans*

Aruldoss Immanuel and SarabojiKadhirvel

ID 03 The effect of solvents on structural properties of DMPC lipid bilayers: A Systematic MD simulation Study

Mohammad Shofiqul Islam, Md Ackas Ali, Md Ishak Khan and Mohammad A. Halim

ID 04 Complex Permeability Studies on Li-Zn ferrites: Effect of V₂O₅ Addition

Sm. Rubayatul Islam, M. Firoz Uddin, R. Satara, S. Manjura Hoque and M. Samir Ullah

ID 05 Studies on some new cadmium complexes of an N-pendent tetraazamacrocyclic ligand L_{BZ} and X-ray crystallographic evaluation of L_{BZ}

Pradip Paul, S. Muntaha, D. Palit, T. G. Roy

ID 06 Vanadium complexes with hexamethyl tetraazacyclotetradecadiene (L) and isomers of its reduced form ('tet-a' & 'tet-b'): Synthesis, characterization and antimicrobial studies

Ratul Kumar Shil, E. Debanathb, B. K. Dey, T. G. Roy

Session –VIII: Drug Design

<https://bdren.zoom.us/j/63676807977>

Venue **Zoom Online Platform**

Time **14:30 – 16:30**

Chairs **Prof. Syed Rashel Kabir (RU) and Prof. Mohammad Shoeb (DU)**

Invited Lecture – 20 **14:30-14:45**

IL-21	Anticancer potential of plant extract mediated biogenic silver/silver chloride nanoparticles, <i>A. K. M. Asaduzzaman, Imtiaj Hasan and Syed Rashel Kabir</i>
Invited Lecture – 21	14:45-15:00
IL-22	Control Drug Nucleation at the Heterogeneous Interface, <i>BipulSarma</i>
Break	15:00-15:10
Contributory Papers	15:10 – 16:10 [10 minutes each paper]
DD 01	Structural studies on Cu/Zn Superoxide Dismutase of <i>Wuchereriabancrofti</i> towards the development of novel structure based drug lead discovery for Lymphatic filariasis <i>Sureshan Muthusamy and SarabojiKadhirvel</i>
DD 02	Antiviral Phytochemicals as Potent Inhibitors against NS3 protease of Dengue Virus <i>Sourav Biswas, Md. Mahbubur Rahman, KaziJahidul Islam, Archi Sundar Paul, Shiplob Kumar Mahato, Md. Ackas Ali and Mohammad A. Halim</i>
DD 03	Structural studies on far-positioned mutant of SOD1 and its association in protein aggregation <i>Srimari Srikanth and SarabojiKadhirvel</i>
DD 04	Anti-fungal drugs as potential inhibitors of main protease of SARS-CoV-2 <i>Maksud Khan, Md. Giash Uddin, Md. Mahbubur Rahman, Rajib Islam, Abdulla Al Mamun, Md Ackas Ali and Mohammad A. Halim</i>
DD 05	Antiviral Peptides Targeting the Receptor Binding Domain of the S Protein in SARS-CoV-2 <i>Shafi Ahmad Talukder, Surid Mohammad Chowdhury, Akib Mahmud Khan, Nadia Afrin, Md Ackas Ali, Rajib Islam, RimonParves, Abdulla Al Mamun, Md. Abu Sufian, Md Nayeem Hossain, Akhter Hossain, Mohammad A. Halim</i>
DD 06	2019 Dengue Outbreak in Chittagong: Seroprevalence and natural anti-dengue antibody responses <i>Moushumi Roy, TahminaSharmin, Kutub Uddin, Anjuwan Singh and Monirul Islam</i>

Break **16:10-18:30**

Plenary Lectures

ZOOM link: <https://bdren.zoom.us/j/64936472976>

Venue	Zoom Online Platform
Time	18:30 – 19:30
Chairs	Prof. M. Muhibur Rahman (DU), and Prof. M. Nizam Uddin (SUST)
Plenary Lecture – 06	18:30-19:00
PL-06	Prof. Thorsten M. Gesing, MAPEX Center for Materials and Processes University of Bremen, Germany Title: Mullite-type phases: Structural complexity and temperature-dependent structure property relations
Plenary Lecture – 07	19:05-19:35
PL – 07	Prof. Waltraud M Kriven, University of Illinois at Urbana-Champaign, Urbana, IL, USA Title: In situ, in air, high temperature synchrotron studies of ceramics to 3000°C
Closing	19:40-20:10 ZOOM link: https://bdren.zoom.us/j/64936472976
Declaration of Award for Poster	Prof. A. K. M. Akther Hossain , Convener, Scientific Subcommittee
Address by the Guest of Honor	Prof. Md. Aftab Ali Shaikh , Chairman, BCSIR
Address by the Chief Guest	Rear Admiral M Khaled Iqbal , NBP,BSP,ndc,psc (retd) Vice-Chancellor, Bangabandhu Sheikh Mujibur Rahman Maritime University, Bangladesh
Chair	Professor Dr. Altaf Hussain , President, BCA
Vote of Thanks	Prof. Muhammed Shah Miran , Secretary, Organizing Committee

Plenary Lectures

Abstract No.	Title	Authors
PL 01	New Chimney Ladder type compounds – challenges for structural elucidation	Sven Lidin sven.lidin@chem.lu.se
PL 02	Ultimate Nano-structural Controlled Functional Metal Oxides for the Non-	Hitoshi TABATA tabata@bioeng.t.u-tokyo.ac.jp

	Invasive and Ultra-High Sensitive Body Gas Sensors. –Electric Nose-	tabata@g.ecc.u-tokyo.ac.jp
PL 03	Structural, spectroscopic and thermolytic studies on bimetallic Os–Sn and related Os–E (E = Ge, Si) clusters bearing a metalated 4-methyl quinoline ligand	Md. Selim Reza, Shishir Ghosh and Shariff E. Kabir skabir_ju@yahoo.com
PL 04	Control of electrical properties on transition metal oxide thin films via protonic-electronic coupling	Hidekazu Tanaka h-tanaka@sanken.osaka-u.ac.jp
PL 05	Investigating polymorphs, salts, solvates, and metal derivatives of Active Pharmaceutical Ingredients	Graciela Díaz de Delgado gdiazedelgado@gmail.com
PL 06	Mullite-type phases: Structural complexity and temperature-dependent structure property relations	Thorsten M. Gesing gesing@uni-bremen.de
PL 07	In situ, in air, high temperature synchrotron studies of ceramics to 3000°C	Waltraud M Kriven kriven@illinois.edu

Invited Lectures

Abstract No.	Title	Authors
IL 01	Optical second harmonic generation (SHG) microscopy of spider silk	<u>Goro Mizutani</u> , Zhao Yue, and Khuat Thi Thu Hien mizutani@jaist.ac.jp

IL 02	Investigation of metal-insulator transition properties for the phase-separated electronic domains in strongly correlated oxides	Azusa N. Hattori a-hattori@sanken.osaka-u.ac.jp
IL03	Bandgap engineering of iron oxide semiconductors for solar energy harvesting	Munetoshi Seki m-seki@ee.t.u-tokyo.ac.jp
IL 04	Copper(II), nickel(II) and cobalt(III) complexes of an aryl substituted macrocyclic ligand: Synthesis, characterization and antimicrobial activities	Tapashi Ghosh Roy tapashir57@gmail.com
IL 05	Preparation of Polymer Nanocomposites with Tunable Size and Distribution from Water-in-Oil Microemulsions	Md. Abu Bin Hasan Susan susan@du.ac.bd
IL 06	Strategy to Elucidate Complex Structures of Natural Products Chemistry	Mohammad Shoeb shoeb@du.ac.bd
IL 07	Bond length turning in CuO thin films through Mn doping via thermal spray pyrolysis	Jiban Podder jpoddar@phy.buet.ac.bd
IL 08	The discovery of ferroelectricity in HfO ₂	Jordan Bouaziz, Nicolas Baboux, Pedro Rojo Romeo, Bertrand Vilquin bertrand.vilquin@ec-lyon.fr
IL 09	Carbon dioxide and (basic) hydrosodalites - template configuration as key factor for CO ₂ trapping features	Irma Peschke, Claus Henning Rüscher and Josef-Christian Buhl i.peschke@mineralogie.uni-hannover.de
IL 10	An effective liquid phase exfoliation approach to prepare transition metal dichalcogenides 2D nanoflakes for gas sensing applications	KaziHanium Maria kazimaria@du.ac.bd
IL 11	Poly (brilliant cresyl blue)-reduced graphene oxide modified activated GCE for nitrite detection: Analyzing the synergistic interactions through experimental and computational study	A. J. Saleh Ahammad, Md. KawsarAlam, Tamanna Islam, Md. Mahedi Hasan, Rejwana Karim, AnjumanNesa Anju, M.N. Islam Mozumder saleh203@yahoo.com
IL 12	Effects of micro/nano size TiO ₂ addition on Pure Hydroxyapatite	MA Gafur dr.abdul.gafur999@gmail.com
IL 13	Study of solid solution series in the system M ₂ O-V ₂ O ₅ -WO ₃ (M=Rb, Cs)	Tapas Debnath, Istiak Hossain, Habiba Tashnim, Claus H Rüscher and Altaf Hussain debnath@du.ac.bd
IL 14	Thermodynamically metastable polymorphs of VPO ₄	Subrata Chandra Roy scroy1979@yahoo.com
IL 15	Structural Diversity in Metal-orotate Coordination Architectures Sustained by Hydrogen Bond	Kafeel Ahmad Siddiqui kasiddiqui.chy@nitrr.ac.in
IL 16	Can a multi-component crystal formation between any two given compounds be predicted?	Tejender S. Thakur tejender.thakur@cdri.res.in
IL 17	Exploring Co-crystallization in Organic Solid State Chemistry	Deepak Chopra dchopra@iiserb.ac.in

IL 18	Periodic trend of stereochemical activity of lone electron pairs	<u>M. MangirMurshed</u> , Thorsten M. Gesing
IL 19	Influence of alumina on the compressive strengths and microstructural properties of the acid-based geopolymers from calcined laterite and metakaolin	Hervé K. Tchakouté, Christelle N. Bewa, Cedric M. Dieuhou, Claus H. Rüschler htchak@yahoo.fr
IL 20	A Tale of the Discovery of Multi-Stimuli Responsive Materials	Naba K. Nath nabakamal.nath@nitm.ac.in
IL 21	Anticancer potential of plant extract mediated biogenic silver/silver chloride nanoparticles	<u>A. K. M. Asaduzzaman</u> , Imtiaj Hasan and Syed Rashel Kabir jonyasad2005@yahoo.com
IL 22	Control Drug Nucleation at the Heterogeneous Interface	BipulSarma bcsarma@tezu.ernet.in

Contributory Paper List

Materials Science and Functional Materials

Abstract No.	Title	Authors
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MSFM 01	Study of the structural, magnetic, dielectric, ferroelectric, and magnetoelectric property of lead-free $x\text{LNCZFO}+(1-x)\text{BGTDO}$ multiferroic composites	Mithun Kumar Das and A.K.M. Akther Hossain mkdas.ju@gmail.com
MSFM 02	Synthesis of Vanadium Substituted Mn-Zn ferrites: A Study of their Cationic Distribution and Electromagnetic Properties	A. Hossain, I. N. Esha, I. B. Elius, M. N. I. Khan and KaziHanium Maria amitahossain08@gmail.com
MSFM 03	Structural and magnetic properties of $\text{Gd}_2\text{FeCrO}_6$ double perovskites	M. D. I. Bhuyan and M. A. Basith didar_bhuiyan@yahoo.com
MSFM 04	Tailoring $(1-x)\text{BaTi}_{0.5}\text{Mn}_{0.5}\text{O}_3 - (x)\text{Ni}_{0.6}\text{Zn}_{0.4}\text{Fe}_{1.85}\text{Sm}_{0.15}\text{O}_4$ Multiferroic Composites to Explore its Electromagnetic and Resistive Properties	KhairunnaharMunny, Iffat Nur Esha, Nazrul Islam Khan and KaziHanium Maria khairunnahar@mbstu.ac.bd
MSFM 05	Substitution of V in Vanadium(V) Oxi-Phosphate with the combination of $\text{V}^{4+}/\text{Nb}^{5+}/\text{W}^{6+}$	Subrata Chandra Roy, LiluferYeasmin, Mahmudur Rahman scroy1979@yahoo.com
MSFM 06	Hydroxyapatite, a Wet Chemically Precipitated Nanoparticle Characterized with Hydroxyapatite/Chitosan-Gelatin Based Bone Scaffold for Orthopedic Application	SajibMohonta, Kazi Maria, Sharmin Rahman, Harinarayan Das and Sheikh Hoque skmohonta-phy@sust.edu
MSFM 07	Mixed polaron hopping type ac conductivity in $0.8\text{BST} + 0.2\text{LCCZFO}$ multiferroic composite: analysis and interpretation	Roksana Parvin, A.A. Momin, Sharifa Nasrin and A.K.M. Akther Hossain roksanashimul@gmail.com
MSFM 08	High CO_2 adsorption selectivity from flue gas by nitrogen contain polymer	Md. Nuruzzaman and Md. Sharif Khan sharifkhanjnu@gmail.com
MSFM 09	Investigation on structural, optical and PL activity of a transition metal ion doped vanadate	KamniPathania kampa24@gmail.com
MSFM 10	Electrochemical investigation of heavy metal ions by ionic liquid (1-butyl-3-methylimidazolium hexafluorophosphate) modified carbon paste electrodes	Md. Mazharul Islam and Chanchal Kumar Roy mazharul.chembuet@gmail.com
MSFM 11	Dye-sensitized solar cells with reduced graphene oxide as the counter electrode prepared by a facile thermal reduction process	Md. Nizam Uddin, Md. Shamim Rahaman, Tasfia Tabassum Asha, Md. Nazmul Haque Nuri, Md. Rashedul Rahman and Nazmul Haque nizam3472@yahoo.com

MSFM 12	Synthesis and Characterization of Rare Earth Modified Bismuth Iron Oxide and Lithium Nickel Manganese Ferrite Multiferroic Composites	Abdulla Al-Momin and A.K.M. Akther Hossain abdulla.al.momin@gmail.com
MSFM 13	A Comparative Study Based on the Variation of Anodic and Cathodic Materials for Quantum Dot Sensitized Solar Cell Aiming it's Better Performance	Tasfia Tabassum Asha, Md. Shamim Rahaman, Md. Nazmul Haque Nuri, Md. Rashedul Rahman, Nazmul Haque and Md. Nizam Uddin nizam1472@yahoo.com
MSFM 14	Acid activated kaolinite/ZnO composite for photodegradation of methylene blue in aqueous solution	Md. Fardin Ehsan, Md. Mominul Islam, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susanand Muhammed Shah Miran ehsanfardin98@gmail.com
MSFM 15	Synthesis, Characterization and biological activities of metal complexes of an N-pendent derivative of an isomeric macrocyclic ligand	Lucky Dey, Md. N. Uddin, Md. I. Morshed S. K. S. Hazari, T. G. Roy luckydey22@gmail.com ; tapashir57@gmail.com
MSFM 16	Zinc(II) complexes with hexamethyl-tetraazamacrocyclic ligands: Synthesis, characterization and antibacterial investigations	Sabina Yasmin, S. Alam, A. Chakrabarty, L. Barua, T. G. Roy Sabina.Yasmin.cu@gmail.com ; tapashir57@gmail.com
MSFM 17	Rhodium(III) and platinum(II) complexes of tetraazamacrocyclic ligands: Synthesis, characterization, antimicrobial investigation and X-ray analysis of free diene ligand	Saswata Rabi, D. Palit, T. G. Roy rabi chem16@cuet.ac.bd ; tapashir57@gmail.com
MSFM 18	Electrical Properties of V ₂ O ₅ added Ni-Co-Zn Ferrites	M. Firoz Uddin, Sm. Rubayatul Islam, R. Satara, S. Manjura Hoque and M. Samir Ullah samirullah@phy.buet.ac.bd

Structural Chemistry and Structural Physics

Abstract No.	Title	Authors
SCSP 01	Rietveld refinement analysis and magnetoelectric coupling in $x\text{NiO} \cdot 0.48\text{CuO} \cdot 0.12\text{ZnO} \cdot 0.40\text{GdO} \cdot 0.04\text{Fe}_2\text{O}_3 \cdot (1-x)\text{BaO} \cdot 0.985\text{CaO} \cdot 0.015\text{ZrO} \cdot 0.10\text{TiO} \cdot 0.90\text{O}_3$ composites	Bablu Chandra Das, Harinarayan Das, M. A. Matin and A. K. M. Akther Hossain bcdasbuet@gmail.com

SCSP 02	Cooperative π -stacked Ternary Assemblies involving discrete Water Clusters in Ni(II) Compounds: Anticancer Activities and Theoretical Studies	Pranay Sharma and Manjit K. Bhattacharyya pranay1234sharma@gmail.com , manjit.bhattacharyya@cottonuniversity.ac.in
SCSP 03	Structural insights of a menthol-based therapeutic deep eutectic solvent	Md Ackas Ali, Md Sajjadur Rahman, Ranen Roy and Mohammad A. Halim akashali16dec@gmail.com , mohammad.halim@uafs.edu
SCSP 04	Effect of Bi Substitution on the Structural, Dielectric and Electrical Properties of BaTiO ₃ Ceramics	Arijun Nahar, Mahabub Alam Bhuiyan, Mohammad Jellur Rahman, Shamima Choudhury arijunnaharairin@yahoo.com
SCSP 05	Effect of Mn ²⁺ substitution on structural, morphological, and electrical properties of Ba _{0.4} Ca _{0.4} Sr _{0.2} Mn _x Ti _{1-x} O ₃ perovskites	Ayesha Akter, M. N. I Khan, Shamima Choudhury and Armin Anwar armin.phy@du.ac.bd
SCSP 06	Synthesis and Structural Characterization of Zn doped Cobalt Ferrite (CoZn _x Fe _{2-x} O ₄)	Amrita Khan; Golam Dastagir Al-Quaderi; Mahabub Alam Bhuiyan; Kazi Haniun Maria; and Shamima Choudhury amrita@iub.edu.bd
SCSP 07	Morphology, Structure and Optical Properties of Thermal Evaporated Copper (Cu)-Doped Zinc Selenide (ZnSe) Thin Films with Variation of Thickness	Md Mustafizur Rahman, Kazi Md Amjad Hussain, Md. Mahafuzur Rahman and Shamima Choudhury mahafuz.du@gmail.com
SCSP 08	Crystal chemistry and environmental application of boehmite (γ -AlOOH) nanoparticles	Md. Aminul Islam, David W. Morton, Bruce B. Johnson, Michael J. Angove aminulchem@gmail.com
SCSP 09	Heteroleptic Pd(II)-Chiral-Schiff Bases Complexes: Synthesis, Diastereoselection and Chirality Induction At-Metal, Crystal Structures, Spectroscopy and DFT/TDDFT	Nazanin Kordestani, Hadi Amiri Rudbari, Mohammad Khairul Islam, Mohammed Enamullah
SCSP 10	From molecules to materials: Structural landscape of zinc terephthalates grown from solution	Manisha Jadon, Manju Srivastava, Prasun Roy, Arunachalam Ramanan aramanan@chemistry.iitd.ac.in

Energy Related Materials

Abstract No.	Title	Author
ERM 01	Evolution of Highly Stable and Luminescent CsPbX ₃ (X = Cl, Br, and I) Nanoplates via Ligand Mediated Anion	Md Aslam Uddin, Justin D. Glover, So Min Park, Jonathan T. Pham and Kenneth R. Graham

	Exchange of CsPbCl ₃ Nanocubes with AlX ₃	md.uddin_chem@uky.edu , kenneth.graham@uky.edu
ERM 02	Role of Fast Ion Transportation and Dehydration of Cations Enhancing Capacitive Performance at Graphene-aqueous Interface	Sharifa Faraezi, Md Sharif Khan and Tomonori Ohba ohba@chiba-u.jp
ERM 03	Effect of Solvent Orientation and Cationic Size on the Capacitive Behavior of Organic Electrolyte Based Energy Storage Systems	Farhana Sharmin, Sharifa Faraezi, A M Mahmudul Hasan, AnggonBarua, TasnimFerdaus and Md Sharif Khan sharifkhanjnu@gmail.com
ERM 04	Development of a High-Performance Carbon-Based Counter Electrode for Dye-Sensitized Solar Cell	A M Mahmudul Hasan and Md. Abu Bin Hasan Susan susan@du.ac.bd
ERM 05	Solar PV performance analysis in global regions with a concern of overheat	Md. Touhidul Imam and A. A. Md. Monzur-Ul-Akhir messut.imamsharif@gmail.com , monzurulakhir@gmail.com
ERM 06	Effects of metal-doping on the physical properties of non-toxic CsSnCl ₃ metal halide perovskites	Jakiul Islam and A.K.M. Akther Hossain jakiul.pust.phy.39@gmail.com

Mineralogy and Composites

Abstract No.	Title	Author
MC 01	Cuprophilic interactions and Encapsulation of water chains in Novel Hexanuclear and Polymeric Coordination Compounds: Antiproliferative Evaluation and Theoretical Studies	HirenNath, Debajit Dutta, Manjit K Bhattacharyya manjit.bhattacharyya@cottonuniversity.ac.in

MC 02	Crystallographic, spectral and computational studies on (S)-(E)-4-[4-(benzylidene-amino)-benzyl]-oxazolidin-2-one	Manikandan. D, Swaminathan. J, Sharmila Tagore. S, Ramalingam. M, Sethuraman. V xrdsethu@gmail.com
MC 03	Diastereoselection and chirality induction at-metal in bis[(R or S)-2-((E)-1-(1-(Ar)ethylimino)ethyl)phenolato-κ ² N,O)]-Λ/Δ-copper(II): Synthesis, spectroscopy, molecular structure, electrochemistry, hydrolysis, PXRD and DFT/TDDFT	Mohammed Enamullah, Mohammad Anwar, Mohammad Khairul Islam, Dennis Woschko, Christoph Janiak
MC 04	Application of [IrI(PPh ₃) ₃ Cl] complex to achieve C-H activation by using 2-(naphthyl-1'-azo)-4-methylphenol and 2-(naphthyl-2'-azo)-4-methylphenol ligand	Abhisek Saha abhisek_nbu@rediffmail.com
MC 05	Manual interruption to identify six streaks of a twin-crystalline peaks with XRD having angular constraint	A. A. Md. Monzur-Ul-Akhir, Masayuki Mori and Koichi Maezawa monzurulakhir@gmail.com
MC 06	Study the structural and electromagnetic properties of (1-y) [Ba _{0.9} Ca _{0.1} Zr _{0.1} Ti _{0.9} O ₃] + (y) [Ni _{0.25} Cu _{0.13} Zn _{0.62} Fe ₂ O ₄] composites	Sharifa Nasrin, A.K.M. Akther Hossain, Md. D. Rahaman sharifa_labiba@yahoo.com

Small and Macro Molecules

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SMM 01	Step-wise synthesis of polymer network using click chemistry and their computational study	Md. Kausar Ahmed, Ajoy Kumer and Abu Bin Imran kausar55@chem.buet.ac.bd
SMM 02	Crystal structure determination, Hirshfeld surfaces analysis, Energy Framework investigation, and evaluation of the anticancer activity of (3E)-3-[(2E)-3-[4-(dimethylamino) phenyl] prop-2-	G. Usha guqmc@yahoo.com

	enylidene}-2, 3-dihydro-4h-chromen-4-one	
SMM 03	Rational design of Chemokine CXCL13 to produce High-Affinity CXCR5 Antagonist	Manjula Ramu, Eric Rosenberg, Bryce Nelson and Elias Lolis manjula.ramu@yale.edu , Elias.lolis@yale.edu
SMM 04	Structural Characterization of Chitin Synthase-5 Saprolegnia parasitica in a Phospholipid Bilayer by Computational Approach	Md. Rubel Hossen, Sourav Biswas, ShailaAker, Md. Ackas Ali, M obayed Ullah, and Mohammad A. Halim rubelhossencu17@gmail.com , obayed.obhi@gmail.com , mohammad.halim@uafs.edu
SMM 05	Effects of osmotic pressure on the irreversible electroporation in giant lipid vesicles	Malay Kumar Sarkar, Marzuk Ahmed, Md. Kabir Ahamed, Shareef Ahammed, Mohammad Abu SayemKaral and Sayed Ul AlamShibly malay.as@aust.edu , asayem221@phy.buet.ac.bd
SMM 06	Dual Filtration in Purification Controls the Size Distribution of Giant Vesicles	Tawfika Nasrin, Salma Akter, Shareef Ahammed, Marzuk Ahmed, Md. Kabir Ahamed and Mohammad Abu SayemKaral tawfikatuli@gmail.com , asayem221@phy.buet.ac.bd
SMM 07	Cloning, Optimization of Protein solubility and purification of Human Interferon Regulatory Factor 6	Binita Kumari Sinha, Sonali Ranjan, Sanju Kumari Singh and Tara Kashav binitasinha@cusb.ac.in , tarakashav@cub.ac.in
SMM 08	Homology Modeling, Molecular Dynamics and Docking Studies of ORF3a in SARS- COV-2	ShailaAker, Md. Jahirul Islam, Shafiqul Islam, RumanaMahtarin, Md Ackas Ali, M. Obayed Ullah and Mohammad A. Halim shailaaktar19@gmail.com , ahalim134@gmail.com
SMM 09	Hetero-Structured Polyoxometalate Electrocatalysts for Oxygen Evolution Reaction in Acidic Media	Mousumi Saha, Md. Imran Hossain, Md. Abu Bin Hasan Susan and Md. Mominul Islam mominul@du.ac.bd

Interdisciplinary

Abstract No.	Title	Authors
ID 01	Impact of Highly Mutated SNP in the SARS-CoV-2 ORF8 Protein: Insight from Microsecond Molecular Dynamics Simulation Study	Shafiqul Islam, Md. RimonParves, Md. Jahirul Islam, Md Ackas Ali, M. Obayed Ullah and Mohammad A. Halim shafiqulhasan8097@gmail.com , mohammad.halim@uafs.edu
ID 02	Modelling studies on LEA protein - DR0105 from Deinococcusradiodurans	Aruldoss Immanuel and SarabojiKadhirvel

		saraboji@scbt.sastra.edu
ID 03	The effect of solvents on structural properties of DMPC lipid bilayers: A Systematic MD simulation Study	Mohammad Shofiqul Islam, Md Ackas Ali, Md Ishak Khan and Mohammad A. Halim shofiq5576@yahoo.com
ID 04	Complex Permeability Studies on Li-Zn ferrites: Effect of V ₂ O ₅ Addition	Sm. Rubayatul Islam, M. Firoz Uddin, R. Satara, S. Manjura Hoque and M. Samir Ullah samirullah@phy.buet.ac.bd
ID 05	Studies on some new cadmium complexes of an N-pendent tetraazamacrocyclic ligand L _{BZ} and X-ray crystallographic evaluation of L _{BZ}	Pradip Paul, S. Muntaha, D. Palit, T. G. Roy paulpradip911@gmail.com ; tapashir57@gmail.com
ID 06	Vanadium complexes with hexamethyl tetraazacyclotetradecadiene (L) and isomers of its reduced form ('tet-a' & 'tet-b'): Synthesis, characterization and antimicrobial studies	Ratul Kumar Shil, E. Debanathb, B. K. Dey, T. G. Roy rabichem07@gmail.com ; rabichem16@cuet.ac.bd

Drug Designing

Abstract No.	Title	Author
DD 01	Structural studies on Cu/Zn Superoxide Dismutase of Wuchereriabancrofti towards the development of novel	Sureshan Muthusamy and SarabojiKadhirvel saraboji@scbt.sastra.edu

	structure based drug lead discovery for Lymphatic filariasis	
DD 02	Antiviral Phytochemicals as Potent Inhibitors against NS3 protease of Dengue Virus	Sourav Biswas, Md. Mahbubur Rahman, Kazi Jahidul Islam, Archi Sundar Paul, Shiplob Kumar Mahato, Md. Ackas Ali and Mohammad A. Halim souravctg8@gmail.com , ahalim134@gmail.com
DD 03	Structural studies on far-positioned mutant of SOD1 and its association in protein aggregation	Srimari Srikanth and Saraboji Kadirvel saraboji@scbt.sastra.edu
DD 04	Anti-fungal drugs as potential inhibitors of main protease of SARS-CoV-2	Maksud Khan, Md. Giash Uddin, Md. Mahbubur Rahman, Rajib Islam, Abdulla Al Mamun, Md Ackas Ali and Mohammad A. Halim maksud.chem@std.cu.ac.bd , mohammad.halim@uafs.edu
DD 05	Antiviral Peptides Targeting the Receptor Binding Domain of the S Protein in SARS-CoV-2	Shafi Ahmad Talukder, Surid Mohammad Chowdhury, Akib Mahmud Khan, Nadia Afrin, Md Ackas Ali, Rajib Islam, Rimon Parves, Abdulla Al Mamun, Md. Abu Sufian, Md Nayeem Hossain, Akhter Hossain, Mohammad A. Halim mohammad.halim@uafs.edu
DD 06	2019 Dengue Outbreak in Chittagong: Seroprevalence and natural anti-dengue antibody responses	Moushumi Roy, Tahmina Sharmin, Kutub Uddin, Anjuvan Singh and Monirul Islam moushumi27@yahoo.com , islammm@cu.ac.bd

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PP 02	Silver Chloride Nanoparticles from Seaweed (<i>Hypneamusciiformis</i>) Extract inhibit human cervical, colorectal and breast cancer cell line	Rita Ghose, A. K. M. Asaduzzaman, Imtiaj Hasan and Syed Rashel Kabir rashelkabir@ru.ac.bd
PP 03	Identification of effective antiviral drugs from Remdesivir analogs against SARS-CoV-2 RNA dependent RNA polymerase through molecular modeling approach	Sinthya Ahmed, RumanaMahtarin, Md. Shamiul Islam, Susmita Das, Abdulla Al Mamun, Sayeda Samina Ahmed, Md Ackas Ali, and Mohammad A. Halim
PP 04	Biogenic silver/silver chloride nanoparticles inhibit human pancreatic cancer cells growth by the induction of apoptosis	Syed Rashel Kabir rashelkabir@ru.ac.bd
PP 05	Eco-friendly amorphous binders, geopolymers: impact on the sturdiness of mortars and (high performance) concretes compared to crystalline csh-phases	Constantin Lübbe, Marvin Schobel, Philipp Wiegel and Claus Rüscher c.ruescher@mineralogie.uni-hannover.de
PP 06	Experiments on hydrogen release of H ₂ O containing [BH ₄]-sodalites using different atmospheric conditions	Marie Bode, Benedict Hagel, Pascal Oelkers and Claus Rüscher c.ruescher@mineralogie.uni-hannover.de
PP 07	Influence of sintering treatment on the permeability of Li-Ni-Zn ferrite	Rakibul Hassan, Mithun Kumar Das, A.K.M. Akther Hossain
PP 08	Computational Investigations of Strontium and Nickel Doped Barium Titanate	Mehedi Hasan and A. K. M. Akther Hossain mehedi.physics@gmail.com
PP 09	Role of Holmium in the Structural, Magnetic and Dielectric Properties of Mn-Zn Ferrites	Nila Rani Kundu, Mithun Kumar Das and A. K. M. Akther Hossain nilaphy@yahoo.com
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PP 11	Simultaneous detection of hydroquinone and catechol based on porous Tal palm carbon nanosheets modified glassy carbon electrode	S. M. Abu Nayem, Nasrin Sultana, Tamanna Islam, Mahedi Hasan, Md Abdul Aziz and A. J. Saleh Ahammad saleh203@yahoo.com
PP 12	Interaction of lysozyme and single-wall Carbon Nanotube: Insights from Molecular Dynamics Simulations	Aktiya Anjum Nishat, Md. Ackas Ali, Faiyaz Md. Efaz, Md. Minhas Hossain Sakib, Mohammad A. Halim mohammad.halim@uafs.edu

PP 13	Preparation and characterization of nitrogen-doped carbon and its electrochemical applications	Md. Mahmudur Rahman, Joy Basak, Md. Mominul Islam, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susanand Muhammed Shah Miran mahmudche@gmail.com shahmiran@du.ac.bd
PP 14	Supramolecular assemblies in Ni(II) and Zn(II) Coordination Compounds involving Unconventional nitrile based interactions: Antiproliferative Evaluation and Theoretical Studies	Amal Das and Manjit Kumar Bhattacharyya amalgc2019@gmail.com , manjit.bhattacharyya@cottonuniversity.ac.in
PP 15	Unconventional Enclathration of 4-NO ₂ bz and a single guest water molecule in Phenanthroline based Ni(II) and Cu(II) Hosts: Anticancer activities and Theoretical studies	PinkuSarma,Pranay Sharma and Manjit K. Bhattacharyya manjit.bhattacharyya@cottonuniversity.ac.in
PP 16	Unique H-bonded Guest (H ₂ O) ₈ Chains in a Fumarato bridged Polymeric Ni(II) Phenanthroline Coordination Compound: Antiproliferative Evaluation and Theoretical studies	Debasish Dutta, Pranay Sharma, Hiren Nath and Manjit K. Bhattacharyya debasishdutta369@gmail.com
PP 17	Antiviral and antifungal drugs targeting Papain-like Protease (PLpro) using Steered and Conventional Molecular dynamics Simulations	Sayed Samina Ahmed, FarjanaAkter, Nabila Tabassum Tasfia, ShailaAkter, Md Ackas Ali, Md Abu Sufian and Mohammad A. Halim saminaahmed.cu@gmail.com , ahalim134@gmail.com
PP 18	Designing Potent Inhibitors against Transmembrane Serine Protease 2 to halt SARS-CoV-2 Entry	Abdulla Al Mamun, FarjanaAkter, Maksud Khan, Sayeda Samina Ahmed, Md. Giash Uddin, Nabila Tabassum Tasfia, Faiyaz Md. Efaz, Md. Nayeem Hossain, Md Ackas Ali, MossammadUmme Chand Sultana and Mohammad A. Halim arjana61994@gmail.com , ahalim134@gmail.com
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PP 20	Large Scale Screening of the Antiviral Peptides to Inhibit the - SARS-CoV-2 Entry	Md. Minhas Hossain Sakib, Atkiya Anjum Nishat, Mohammad Tarequal Islam, Mohammad Abu Raihan Uddin, Md Shahriar Iqbal, Farhan Fuad Bin Hossen, Mohammad Imran Ahmed, Md Samiul Bashir,

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PP 23	Synthesis-Structure-Property Correlation in Manganese Dicarboxylates Based Coordination Polymers	B. Singh and A. Ramanan aramanan@chemistry.iitd.ac.in