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Personal Details

DR. PINAKI MANDAL

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DEPARTMENT OF CHEMISTRY
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Date of Birth : 06/11/1982
Educational Qualification : M.Sc., Ph.D.
Permanent Address : Katjuridanga, P.O.-Kenduadihi,
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Date of Joining : 02/07/2008
Areas of Teaching : Organic Chemistry, General Chemistry
Research Interest : Natural Product Chemistry and Nano Chemistry

List of Research Papers in National / International Journal

- i) K Chattopadhyay, CG Mateu, P Mandal, CA Pujol, EB Damonte, B Ray. Galactan sulfate of *Grateloupia indica*: isolation, structural features and antiviral activity. *Phytochem.*, 68(10), 1428-1435, 2007.
- ii) K Chattopadhyay, P Mandal, P Lerouge, A Driouich, P Ghosal, B Ray. Sulfated polysaccharides from Indian samples of *Enteromorpha compressa* (Ulvaes, Chlorophyta): Isolation and structural features. *Food Chem.*, 104, 928-935. 2007.
- iii) P Mandal, CG Mateu, K Chattopadhyay, CA Pujol, EB Damonte, B Ray. Structural features and antiviral activity of sulfated fucans from the brown seaweed *Cystoseira indica*. *Antivir. Chem. Chemother.*, 18, 153-162. 2007.
- iv) P Mandal, CA Pujol, MJ Carlucci, K Chattopadhyay, EB Damonte, B Ray. Anti-herpetic activity of a sulfated xylomannan from *Scinaia hatei*. *Phytochem.*, 69(11), 2193-2199, 2008.
- v) T Ghosh, K Chattopadhyay, M Marschall, P Karmakar, P Mandal, B Ray. Focus on antivirally active sulfated polysaccharides: from structure-activity analysis to clinical evaluation. *Glycobiology*, 19, 2-15, 2009.



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vi) P Karmakar, T Ghosh, S Sinha, S Saha, P Mandal, PK Ghosal, B Ray. Polysaccharides from the brown seaweed *Padina tetrastromatica*: Characterization of a sulfated fucan. Carbohydr. Polym., 78, 416-421, 2009.

vii) P Mandal, CA Pujol, EB Damonte, T Ghosh, B Ray. Xylans from *Scinaia hatei*: Structural features, sulfation and anti-HSV activity. Int. J. Bio. Macromol., Vol. 46, Issue 2, page 173-178, 2010.

viii) P Mandal. Green Synthesis and Characterization of Poly(vinyl Alcohol) Embedded Silver Nanoparticles using Simul (*Bombax ceiba*) Flower Extract. Int. J. Curr. Res. Rev., 9(14), 3-6, 2017.

ix) P Mandal. Biosynthesis of Silver Nanoparticles by *Plumeria rubra* Flower Extract: Characterization and Their Antimicrobial Activities. Int. J. Eng. Sci. & Inv., 7(1): 01-06, 2018.

x) P Mandal, S Ghosh. Green synthesis of poly(vinyl alcohol)–silver nanoparticles hybrid using Palash (*Butea monosperma*) flower extract and investigation of antibacterial activity. Poly. Bull., 75(5): 1949–1955, 2018.

xi) P Mandal, S Maji. Colorimetric Sensing of Hg^{2+} and Fe^{3+} Ions in aqueous solution using Green Synthesized Silver Nanoparticles. Int. J. Life Sci. Pharma Res. 10(2), 76-82, 2020.

Xii) P Mandal, S Ghosh. Green Approach to the Synthesis of Poly(Vinyl Alcohol)-Silver Nanoparticles Hybrid Using Rice Husk Extract and Study of its Antibacterial Activity. Biointerface Res. Appl. Chem. 10(5), 6474 – 6480, 2020.

Xiii) A Chatterjee, P Chakraborty, B Kumar., C Rizzoli, P Mandal, SK Dey. Synthesis, characterization of one Cr (III) complex: An efficient chemosensor for Cr (III) ions and designing of a molecular logic gate. J. Mol. Struct., 1256, 132486, 2022.

List of Books / Book Chapters

i) Ethnopharmacological Uses, Chemical Constituents and Biological Activities of Sesame: A Review. Recent Progress in Medicinal Plants, 23, 91-113, 2008, Studium Press LLC, USA.

Papers presented in National / International seminars / conferences / workshop

i) UGC Sponsored one-day National Seminar on Recent Developments in Green Chemistry organized by Department of Chemistry, Gushkara Mahavidyalaya, Burdwan, W.B. held on 22nd March, 2015 and presented a paper entitled "**Purification and Chemical investigation of bioactive polysaccharides isolated from seaweed *Scinaia hatei***".



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ii) UGC Sponsored two day National Seminar on Environmental Friendly Biodegradable Polymers: Present and Future, organized by Department of Chemistry, Mugberia Gangadhar Mahavidyalaya, Purba Mednipur, W.B. held on 9th-10th September, 2015 and presented a paper entitled **“Carbohydrate Polymers From marine algae: Structural Features and Bioactivity”**.

iii) UGC Sponsored two day National Seminar on The Biggest Challenge Of Green Chemistry To Use Its Rule In Practice, organized by Department of Chemistry, A. K. P. C. Mahavidyalaya, Bengai, Hooghly, W.B., held on 8th-9th October, 2015 and presented a paper entitled **“Structural features and antiviral activity of Galactan Sulfate isolated from red seaweed”**.

iv) One day State level Seminar on Recent Trends in Chemical Sciences, organized by Department of Chemistry, Bankura Sammilani College, Bankura, held on 16th July, 2015 and presented a paper entitled **“Xylomannan from marine algae: Structural features and bioactivity”**.

v) TEQIP-II One day International Seminar on “Chemical Engineering and Advanced Polymeric Materials (ICEAPM 2016)”, organized by Department of Chemical Engineering & Technology, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, held on 18th-20th, August 2016 and presented a paper entitled **“Polymer Network composed of Poly(vinyl alcohol) and epoxy based pH indicator”**

vi) UGC Sponsored two day National Seminar on “Chemistry on Its Way: Impacts on the Environment”, organized by Department of Chemistry, Saldiha College, Saldiha, Bankura held on 1st -2nd September, 2016 and presented a paper entitled **“Seaweed polysaccharides: Potential antiviral drug candidate”**.

vii) UGC Sponsored two day National Seminar on “Chemistry Today- Nanoworld to Macroworld”, organized by Department of Chemistry, Sonamukhi College, Sonamukhi, Bankura held on 22nd -23rd December, 2016 and presented a paper entitled **“Polysaccharides from brown alga: Structural features, Chemical Modification and bioactivity”**.

viii) Department of Health and Family Welfare, Govt. of West Bengal Sponsored one day State Level Seminar on “Rural Health Ecology: Issues of Public Health, Nutrition and Fluorosis”, organized by Department of Nutrition Science, Sammilani College, Bankura held on 11th January, 2017 and presented a paper entitled **“Sulfated glucans generated from**



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rice bran: A potential antiviral agent at the stage of viral entry".

ix) Indian Chemical Society Sponsored one day International "Science Seminar" organized by Department of Chemistry, Burdwan Raj College, Aftab House, Burdwan-713104 held on 10th October, 2017 and presented a paper entitled "*Green synthesis and characterization of Poly- (vinyl alcohol) embedded silver nanoparticles using Shimul (Bombax ceiba) flower extract and investigation of antibacterial activity*".

x) One day International Seminar on Advancements in Chemical Sciences: Issues and Challenges organized by Department of Chemistry, Bidhan Chandra College, Asansol, West Bengal, India held on 4-5th February, 2020 and presented a paper entitled "*Epoxy-based network: An effective pH indicator*".

xi) One day State Level Seminar on Science in the 21st century for a sustainable future organized by Department of Chemistry, Science departments of Sidho-Kanho-Birsha University, Purulia, West Bengal, India held on 12-13th February, 2020 and presented a paper entitled "*Biosynthesis of Silver nanoparticles for metal ion sensing*".

National / International seminars / conferences / workshop attended

i) National Conference on Recent Developments in Carbohydrate Chemistry, organized by Department of Chemistry, The University of Delhi, 26th - 29th November, 2006.

ii) National Seminar on Recent Trends in Carbohydrate Chemistry organized by National Institute of Pharmaceutical Education and Research (NIPER), S. A. S. Nagar-160062, Panjab, India on 13th – 15th December, 2007.

iii) UGC Sponsored National Seminar on Advanced Spectroscopy, Theoretical Chemistry, Synthesis, Reactivity and Structure Evaluation-1st organized by Department Of Chemistry, The University of Burdwan, Burdwan-713104, W.B., on 25-27th April, 2008.

iv) U.G.C. Sponsored National Seminar on Higher Education and employability organized by Malda College, Malda west Bengal on 15th November, 2008

v) D.S.T Sponsored State Level Seminar on Role of Metal Ions in Biological System organized by Department Of Chemistry, Raghunathpur College, Purulia, West bengal on 18th November, 2008

vi) National Seminar on Carbohydrate Chemistry organized by Department Of Chemistry, Bhavnagar University, Bhavnagar, Gujrat, India during January 22-24, 2009

vii) U.G.C. Sponsored National Seminar on Advanced Spectroscopy, Theoretical



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Chemistry, Synthesis, Reactivity and Structure Evaluation-2nd organized by Department Of Chemistry, The University of Burdwan, Burdwan-713104, W.B., on 20th-22nd February, 2009

viii) UGC Sponsored National Seminar on The Evolution of Human Rights in India Through Ages organized by Department Of History, Bankura Sammilani College, Kenduadihi Bankura-722102 during February 10-12, 2010

ix) National Seminar on Chemistry Today organized by Department Of Chemistry, The University of Burdwan, Burdwan-713104, W.B., on 18-20th March, 2010

x) UGC Sponsored National Seminar on Recent Reforms In Education In India: Trends And Challenges organized By University B.T. & Evening College And Tufanganj College, Cooch Behar, West Bengal during 1-2 October, 2010.

xi) One day State level Seminar on Recent Trends In Chemical Science, Organized by Bankura Christian College, Bankura held during November 18-19, 2011

xii) National Seminar on Recent Trends In Chemical Science organized by Department Of Chemistry, The University of Burdwan, Burdwan-713104, west Bengal from 15-17th March, 2012

xiii) One day Workshop cum Seminar on Career Advancement Scheme organized by IQAC, Bankura Christian College, Bankura held on 30th August 2014.

xiv) One day Workshop on Quality Enhancement through IQAC Initiatives, organized by IQAC, Bankura Zilla Saradamani Mahavidyalaya, Bankura, held on 10th November 2014.

xv) UGC Sponsored National Seminar on Trends in Contemporary Indian Historical Studies: Crises and Transition organized By Mahadevananda Mahavidyalaya, Barrackpore, North 24 Parganas West bengal on December, 20, 2014

xvi) National Seminar on Advanced Spectroscopy, Theoretical Chemistry, Synthesis, Reactivity and Structure Evaluation organized by Department Of Chemistry, The University of Burdwan, Burdwan-713104, west Bengal from 19-21st February, 2015.

xvii) 3 days Science Academics' Lecture Workshop On "Emerging Trends in Chemistry And its Pharmaceutical Applications" organized by Deptt. Of Chemistry, Bankura Sammilani College during 19-21 January 2018.

xviii) Two Days National Symposium on Celebrating International Year of Periodic Table (IYPT 2019) organized by Department Of Chemistry, Bankura Sammilani College in collaboration with Bankura University, Bankura and Sponsored by RSC (South Eastern Region) and Indian Chemical Society, Kolkata on 18th-19th March, 2019.



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Faculty Development Courses / Programmes attended

Sl. No.	Programme	Duration	Organized by
1	79 th Orientation Programme	March 04 to March 31, 2011	Academic Staff College, University of Burdwan
2.	1 st refresher Course in Materials Science	June 28 to July 18, 2013	Academic Staff College, University of Burdwan
3.	Refresher Course in Basic Science	11-01-2016 to 31-01-2016	Academic Staff College, Ranchi University, India
4.	Refresher Programme in Chemistry	June 08 to June 28, 2018	Faculty Development Centre, IIT (ISM), Dhanbad, Jharkhand, India

