

FACULTY PROFILE

DR. BHOLANATH PAKHIRA, M.Sc., Ph.D.

ASSISTANT PROFESSOR (W.B.E.S.)

DEPARTMENT OF CHEMISTRY

Government General Degree College at Kaliganj

Kaliganj, Nadia, W.B. Pin- 741137

bpakhira@kaliganjgovtcollege.ac.in, pakhirabhola@gmail.com



A. BIOGRAPHY:

1. Name: Dr. Bholanath Pakhira
2. Date of Birth: 17/09/1986
3. Sex: Male
4. Nationality: Indian
5. Permanent Address Vill+P.O- Manikura, Dist- Howrah, Pin-711410
6. Language known: Bengali, English, Hindi
7. Mother Tongue Bengali

B. ACADEMIC PROFILES:

Degree	Institute	Division/ Class	Subject	Year
Ph.D.	IEST, Shibpur	First	Chemistry	2019
M.Sc.	IIT Kanpur	First	Chemistry	2009
B.Sc.	University of Calcutta (Ramakrishna Mission Vidya Mandira)	First	Chemistry (Hons)	2007
HS	WBCHSE	First	Science	2004
MP	WBBSE	First	Science and language and social science	2002

C. TEACHING EXPERIENCE:

- Assistant Professor (WBES) in Govt. General Degree College, Kaliganj, Nadia from 19th May, 2026 till date.
- Assistant Professor (WBES) in Sister Nibedita Govt. General Degree College for Girls, Hastings House, Alipore, Kolkata from 11th June, 2015 till 18th May, 2026.
- Post Graduate Teacher, The Indian Public School, Dehradun, 2009-2012.

D. RESEARCH EXPERIENCE:

After completing my M.Sc. Chemistry from Indian Institute Technology, Kanpur in 2009, I have received Ph.D. from Indian Institute of Engineering Science and Technology, Shibpur, under the supervision of [Prof. Sabyasachi Sarkar](#) (Honorary Professor, IEST, Shibpur, former senior Professor and Head, Dept. of Chemistry, IIT Kanpur) and [Prof. Shyamal Kumar Chattopadhyay](#) (Professor of Chemistry, IEST, Shibpur) on the topic “Graphene and nano carbons from coal and their use as cargo for drug delivery including passage through blood-brain barrier” in 2019.

E. ACADEMIC ACHIEVEMENT:

- CSIR NET (2008, 2010)
- GATE, 2009 with Gate Score 99.38 percentile
- JRF, SRF
- MCM Scholarship at IIT Kanpur
- ACC Fellowship

F. RESEARCH INTEREST:

Low-cost synthesis of carbon-based, water soluble nanomaterials like carbon nano-onions, graphene oxide and reduced graphene oxide and their uses in the fields of drug delivery, bioimaging, energy harvesting, and computational studies.

G. PUBLICATIONS:

a) BOOK CHAPTER

1. Nanoengineered one dimensional carbon, graphene, and polyoxometalate based emerging electrode for energy storage, Bholanath Pakhira, Manas Roy, Susanta Ghanta, in "Industrial Applications of Carbon Nanomaterials", (2026), *Chapter 29*, 779-808. [View](#)

2. Nanotechnology: Unlocking Tomorrow's Potential, in "The Fascinating World of Nano.", (2024), *Chapter 4*, 28-33, Big Book Distributor, Noida West, UP, India, ISBN 978-81-965714-0-5
3. Revealing Nano Biosensors: The Mighty Innovators Reshaping Our Future, "The Fascinating World of Nano." (2024), *Chapter 11*, 80-102, Big Book Distributor, Noida West, UP, India, ISBN 978-81-965714-0-5
4. Nanostructured Plasmonic Sensors for Real-Time, Detection of Environmental Pollutants, "The Fascinating World of Nano." (2024), *Chapter 12*, 103-111, 2024, Big Book Distributor, Noida West, UP, India, ISBN 978-81-965714-0-5, DOI:10.1016/B978-0-443-33473-3.00021-8. [View](#)
5. Electron Transfer Mechanisms in Molybdenum and Tungsten Model Compounds, Bholanath Pakhira, Rudra Sarkar and Sabyasachi Sarkar, in "Molybdenum and Tungsten Enzymes" Royal Society of Chemistry, Eds. Russ Hille, Carola Schulzke, Martin L. Kirk, (2016), *Chapter 3*, 68-93, DOI:10.1039/9781782628828-00068. [View](#)

b) PEER REVIEW RESEARCH ARTICLE (INTERNATIONAL JOURNAL):

1. Contemporary Progress on Single-Atom Electrocatalysts for H₂ Evolution and CO₂ Reduction Reaction: Insights, Bottlenecks, and Perspectives, Dr. Jit Satra, Suraj Goswami, Shankab J. Phukan, Dr. Chanchal Bhaumik, Dr. Susanta Ghanta, Dr. Bholanath Pakhira, Dr. Somenath Garai, Dr. Manas Roy, Dr. Tarun Kumar Misra, *Chem. Asian J.* (2025), e00841. [View](#)
2. Contemporary Progress on Graphene/Graphene Derivatives-Based Adsorbents and Photocatalysts for the Eradication of Organic Toxins: An Updated Overview, Soumalya Bhowmik, Mohammed Mufeed, Shankab J. Phukan, Souradip Sarkar, Suraj Goswami, Dr. Khalid Ali Khan, Dr. Rohit Sharma, Dr. Somenath Garai, Dr. Manas Roy, Dr. Bholanath Pakhira, Dr. Mitali Saha, *Chem. Asian J.* (2025), e00628. [View](#)
3. Strategic methods for the preparation of coumarin fused dihydroquinolines (CFDQ): A concise review, Reshmi Bose, Tamanna Pradhan, Bholanath Pakhira, Manas Roy, Subrata Dolui, Ambrish Singh, Tanay Pramanik, *Results Chem.*, (2025), 15, 102287. [View](#)
4. Recent Advancement in the Green Synthesis of Bis(indolyl) Methane via One-pot Multicomponent Condensation Strategy – A Mini Review, Pooja Bedi, Rajbir Kaur, Reshmi Bose, Bholanath Pakhira, Manas Roy and Tanay Pramanik *Orient. J. Chem.*, (2024), 40, 1207. [View](#)
5. Applications of Graphene and Graphene Oxide as Versatile Sensors: A Brief Review, Reshmi Bose, Abdullah K. Alanazi, Soumalya Bhowmik, Somenath Garai, Manas Roy, Bholanath Pakhira* and Tanay Pramanik*, *Biointerface Res. Appl. Chem.*, (2022), 13,5,457. [View](#)

6. Structural Control in Nano-assembly of Tungsten and Molybdenum Dithiolene Complex Analog, Jagannath Bhuyan, Bholanath Pakhira, Ameerunisha Begum, Sabyasachi Sarkar and Kumud Malika Tripathi, *React. Chem. Eng.*, (2022), 7, 2231-2239. [View](#)
7. Fluorescence Quenching based Detection of p-Nitrophenol using Luminescent Silicon Nanocrystals and Insights into the Quenching Mechanism, Bhaskar Das, Syed Minhaz Hossain, Bholanath Pakhira, Ashit Kumar Pramanick, Rahul Das and Mallar Ray, *Semiconductor Sci. Tech.*, (2020), 35. [View](#)
8. Nitrogen-doped fluorescent graphene nanosheets as visible-light-driven photocatalysts for dye degradation and selective sensing of ascorbic acid, Gouri Sankar Das, Kumud Malika Tripathi, Gautam Kumar, Sudip Paul, Surbhi Mehara, Soumalya Bhowmik, Bholanath Pakhira, Sabyasachi Sarkar, Manas Roy, TaeYoung Kim, *New J. Chem.*, (2019), 43, 14575-14583. [View](#)
9. Crystal structure, spectroscopic, DNA binding studies and DFT calculations of a Zn (ii) complex, Satyajit Mondal, Moumita Chakraborty, Antu Mondal, Bholanath Pakhira, Subhra Kanti Mukhopadhyay, Avishek Banik, Swaraj Sengupta, Shyamal Kumar Chattopadhyay, *New J. Chem.*, (2019), 43, 5466-5474. [View](#)
10. Sensing study of quinoxaline analogues with theoretical calculation, single-crystal X-ray structure and real application in commercial fruit juices, Shampa Chakraborty, Shyamaprosad Goswami, Ching Kheng Quah, and Bholanath Pakhira, *R. Soc. Open. Sci.*, (2018), 5, doi.org/10.1098/rsos.180149. [View](#)
11. Turn on ESIPT based chemosensor for histidine: Application in urine analysis and live cell imaging, Chandrima Das, Bholanath Pakhira, Arnold L. Rheingold, Shyamal Kumar Chattopadhyay, *Inorganica Chimica Acta*, (2018), 482,292-298. [View](#)
12. Indoor Floating Dust Contains Graphene Derivative to Generate Reactive Oxygen Species with Visible Light and Oxygen, Bholanath Pakhira, Indrani Kumbhakar, Ankit Samanta, Gouri Sankar Das and Sabyasachi Sarkar, *Materials Today Proceedings*, (2018), 5, 10131-1-136. [View](#)
13. Cu(II) complexes of a tridentate N,N,O-donor Schiff base of pyridoxal: Synthesis, X-ray structures, DNA-binding properties and catecholase activity, Satyajit Mondal, Moumita Chakraborty, Antu Mondal, Bholanath Pakhira, Alexander J. Blake, Ekkehard Sinn and Shyamal Kumar Chattopadhyay, *New J. Chem.*, (2018), 42, 9588-9597. [View](#)
14. Micro carbon-based facial creams activate aerial oxygen under light to reactive oxygen species damaging cell, Sheli Maity, Bholanath Pakhira, Subrata Ghosh, Royina Saha, Ripon Sarkar, Ananya Barui and Sabyasachi Sarkar, *Appl. NanoSci.*, (2017), doi:10.1007/s13204-017-0604-9. [View](#)

15. Graphene oxide: A No-Acid Low-Temperature Synthesis from Graphite, Bholanath Pakhira, Ankit Samanta, Gouri Sankar Das and Sabyasachi Sarkar, *ChemistrySelect*, (2017), 02, 5564–5569. [View](#)
16. DNA–carbon nano-onion aggregate: triangle, hexagon, six-petal flower to dead-end network, Deepak Gorokh Babar, Bholanath Pakhira and Sabyasachi Sarkar, *Appl. NanoSci.*, (2017) ,7, 291-197 DOI: 10.1007/s13204-017-0570-2. [View](#)
17. Ruthenium (II/III) complexes of redox non-innocent bis (thiosemicarbazone) ligands: Synthesis, X-ray crystal structures, electrochemical, DNA binding and DFT studies, Bipinbihari Ghosh, Piyali Adak, Subhendu Naskar, Bholanath Pakhira, Partha Mitra and Shyamal Kumar Chattopadhyay, (2017), 131, 74-85. [View](#)
18. Vanadium (V) complexes of some bidentate hydrazone ligands and their bromoperoxidase activity Piyali Adak, Bipin Ghosh, Bholanath Pakhira, R Sekiya, R Kuroda and S K Chattopadhyay, *Polyhedron*, (2017), 127, 135-143. [View](#)
19. Ruthenium (II) complexes of thiosemicarbazones: Synthesis, X-ray crystal structures, spectroscopy, electrochemistry, DFT studies and fluoride sensing properties , Bipin Ghosh, Piyali Adak, Subhenu Naskar, Bholanath Pakhira, Partha Mitra, Rupam Dinda, *Inorganica Chimica Acta*, (2017), 459, 1-14. [View](#)
20. Two pseudohalide-bridged Cu (II) complexes bearing the anthracene moiety: Synthesis, crystal structures and catecholase-like activity, Piyali Adak, Chandrima Das, Bipinbihari Ghosh, Satyajit Mondal, Bholanath Pakhira, Ekkehard Sinn, Alexander J. Blake, Alice E. O'Connor, Shyamal Kumar Chattopadhyay ,*Polyhedron*, (2016), 119, 39-48. [View](#)
21. Co (III) and Ni (II) complexes of an anthracene appended aroyl hydrazone: Synthesis, crystal structures, DNA binding and catecholase activity, Satyajit Mondal, Bholanath Pakhira, Alexander J. Blake, Mike G.B Drew, Shyamal Kumar Chattopadhyay, *Polyhedron*, (2016), 117, 327-337. [View](#)
22. Carbon Nano Onions Cross Blood Brain Barrier, Bholanath Pakhira, Mitrajit Ghosh, Afreen Allam and Sabyasachi Sarkar, *RSC Adv.*, (2016), 06,29779-29782. [View](#)
23. Synthesis, characterization and theoretical studies of the heteroleptic Ruthenium (II) complexes of 2, 6-bis (benzimidazolyl) pyridine, Sumita Naskar, Bholanath Pakhira, Dipankar Mishra, Partha Mitra, Shyamal Kumar Chattopadhyay, Subhendu Naskar, *Polyhedron*, (2016), 100, 170-179. [View](#)
24. Extraction of Preformed Graphene Oxide from Coal: Its Clenched Fist Form Entrapping Large Molecules, Bholanath Pakhira, Subrata Ghosh, Sheli Maity, Sangeetha D.N., Ankita Laha, Afreen Allam and Sabyasachi Sarkar, *RSC. Adv.*, (2015), 05, 89076-89082. [View](#)

25. ROS generation by reduced graphene oxide (rGO) induced by visible light showing antibacterial activity: comparison with graphene oxide (GO), Taposhree Dutta, Rudra Sarkar, Bholanath Pakhira, Subrata Ghosh, Ripon Sarkar, Ananya Barui and Sabyasachi Sarkar, *RSC. Adv.* (2015), 05, 80192-80195. [view](#)
26. Theoretical Studies on Mechanisms of some Mo Enzymes, Nuno M. F. S. A. Cerqueira, Bholanath Pakhira and Sabyasachi Sarkar, *J. Biol. Inorg. Chem.* (Topical Issue on Molybdenum and Tungsten Enzymes: from Biology to Chemistry and Back), (2015): 20,323-335.[view](#)
27. A triphenyl amine based solvatofluorochromic dye for the selective and ratiometric sensing of hypochlorite in human blood cell, Shyamaprosad Goswami, Sangita Das, Krishnendu Aich, Bholanath Pakhira, Kakali Ghoshal, Ching Kheng Quah, Maitree Bhattacharyya, Hoong-Kun Fun and Sabyasachi Sarkar, *Chem. Asian J.*, (2015), 10, 694-700. [view](#)
28. ESIPT based Hg²⁺ and fluoride chemosensor for sensitive and selective 'turn on' red signal and cell imaging, Shyamaprosad Goswami, Sibaprasad Maity, Annada C Maity, Avijit Kumar Das, Bholanath Pakhira, Kalyani Khanra, Nandan Bhattacharyya and Sabyasachi Sarkar, *RSC Adv.*, (2015), 05, 5735-5740. [View](#)
29. One Electron Reduced Square Planar Bis(benzene-1,2-dithiolato) Copper Dianionic Complex and Redox Switch by O₂/HO⁻, Biplob K. Maiti, Luisa B. Maia, Kuntal Pal, Bholanath Pakhira, Teresa Aviles, Isabel Moura, Sofia R. Pauleta, Jose L. Nunez, Alberto C. Rizzi, Carlos D. Brondino, Sabyasachi Sarkar and Jose J. G. Moura., *Inorg. Chem.*, (2014), 53, 12799-12808. [View](#)
30. A Highly Selective Ratiometric Chemosensor for Ni²⁺ in Quinoxaline Matrix, Shyamaprosad Goswami, Monoj Kumar Adak, Sandipan Halder, Ching Kheng Quah, Hoong-Kun Fun, Bholanath Pakhira and Sabyasachi Sarkar, *New J. Chem.*, (2014), 38, 6230-6235. [View](#)
31. Unique fluorogenic 'ratiometric' fluorescent chemodosimeter for rapid sensing of CN⁻ in water, Ajit Mahapatra, Kalipada Maiti, Saikat Manna, Rajkishor Maji, Chitrangada Mukhopadhyay, Bholanath Pakhira and Sabyasachi Sarkar, *Chem. Asian. J.*, (2014), 9,23-32.[View](#)
32. Synthesis, X-ray crystal structures, spectroscopic and electrochemical studies of Zn (II), Cd (II), Ni (II) and Mn (II) complexes of N 1, N 4-bis (pyridoxylidene) triethylenetetramine, Satyajit Mondal, Piyali Adak, Chandrima Das, Sumita Naskar, Bholanath Pakhira, Arnold L Rheingold, Ekkehard Sinn, Carla Sue Eribal, Shyamal Kumar Chattopadhyay, *Polyhedron*, (2014), 81, 428-435. [View](#)
33. Synthesis, spectroscopic studies, X-ray crystal structures, electrochemical properties and DFT calculations of three Ni (II) complexes of aroyl hydrazone ligands bearing

anthracene moiety, Satyajit Mondal, Chandrima Das, Bipinbihari Ghosh, Bholanath Pakhira, Alexander J Blake, Mike GB Drew, Shyamal Kumar Chattopadhyay, *Polyhedron*, (2014), 80, 272-281. [View](#)

34. Pyrophosphate Selective Fluorescent Chemosensor: A Cascade Recognition of Nuclear Stain Mimicking DAPI, Shyamaprosad Goswami, Avijit Kumar Das, Bholanath Pakhira, Sohini Basuroy, Anup Kumar Maity, Partha Saha and Sabyasachi Sarkar, *Dalton Trans.*, (2014), 43, 12689-12697. [View](#)
35. A reaction based colorimetric as well as fluorescence ‘turn on’ probe for the rapid detection of hydrazine, Shyamaprosad Goswami, Krishnendu Aich, Sangita Das, Sohini Basu Roy, Bholanath Pakhira and Sabyasachi Sarkar, *RSC Adv.*, (2014), 4, 14210-14214. [View](#)
36. A chemodosimeter for the ratiometric detection of hydrazine-based on return of ESIPT and its application in live-cell imaging, Shyamaprosad Goswami, Sangita Das, Krishnendu Aich, Bholanath Pakhira, Sukanya Panja, Subhra Kanti Mukherjee and Sabyasachi Sarkar, *Org. Lett.*, (2013), 15, 5412-5415. [View](#)

c) SEMINAR/CONFERENCE/WORKSHOP/OP/RC

- Presented paper Toxicity of Nanocarbon: Myth vs Reality in 1st International Conference on Environmental Challenges of the Dynamic Earth: A Multidisciplinary Approach (ECDEMA–2025), 17th & 18th November, 2025 at Sister Nibedita Government General Degree College for Girls, Kolkata
- RC (Online Refresher Course in Chemistry), 27 October, 2025 to 08 November, 2025, UGC-MMTTC, Manipur
- Organized/Participated a National webinar on AI in Research and Education by Research Cell of SNGGDCG in association with IQAC on 24/08/2025
- Organized/Participated a National webinar on Issues relating to Intellectual Property Right, by IPR Cell of SNGGDCG in association with IQAC on 11/05/2025
- Participated in the One-Day National Webinar on “Research Methodology and Intellectual Property Rights” organized by Research and Development Cell in association with IQAC, Banwarilal Bhalotia College, Asansol, India held on 17th July, 2022.
- Participated in First Training Program on Fundamentals of Python Language for faculty members from 16.02.2022 to 03.03.2022 organised by West Bengal State Council of Higher Education in collaboration with Maulana Abul Kalam Azad University of Technology, West Bengal.

- Participated in the one day National Level Webinar on “Intellectual Property Rights(IPR)” organized by IQAC, Tamralipta Mahavidyalaya on 13th November, 2021 (1:30 P.M-4 PM).
- Participated in Outreach Webinar “টেলিস্কোপের গল্প, মহাবিশ্বের গল্প” Organised by Department of Physics Under DBT-STAR College Scheme, Govt. of India (Department of Botany, Chemistry, Physics & Zoology) Surendranath College, 24/2 M.G. Road, Kolkata - 700009 on 26th December 2020
- Participated in the Webinar held on 25/09/2020 from 11 am to 1.30 pm A National Webinar on "Indian Economy at Crossroads: Some Insights from the Lockdown Phase”Organized by Department of Economics and The Internal Quality Assurance Cell (IQAC), Sister Nibedita Govt. General Degree College for Girls
- Participated in the webinar on "Recent Advances in Chemical Sciences - IV", organized by the Post Graduate Department of Chemistry, Lady Brabourne College, on 19th September, 2020
- Participated in the Two-Day State-level Webinar on Skill Enhancement Courses (SEC) of UG Chemistry (Hons.), CBCS Syllabus, University of Calcutta, jointly organized by the Dept. of Chemistry & IQAC, Maulana Azad College and the Dept. of Chemistry & IQAC, Asutosh College, in collaboration with UG Board of Studies, University of Calcutta from 24-25th August, 2020 (3-5:30 P.M.)
- Participated in One Day International Webinar on “Covid-19 Pandemic: a Search for Relief” organized by the Department of Chemistry in Association with IQAC,Charuchandra College, Kolkata, West Bengal, India, on 22nd August, 2020 (6pm-8pm).
- Participated in the Four-Day National Webinar on Discipline Specific Elective (DSE) Topics of UG Chemistry (Hons.), CBCS Syllabus, University of Calcutta, jointly organized by the Dept. of Chemistry & IQAC, Maulana Azad College and the Dept. of Chemistry & IQAC, Asutosh College, in collaboration with UG Board of Studies, University of Calcutta from 4th-7th August, 2020 (3-5 P.M.)
- Participated in the International Webinar on "Interrelation between Soil Chemistry and Human Health" organized by the Department of Chemistry, Dr. Shyama Prasad Mukherjee University, Ranchi, India on 04 August, 2020.
- Participated in the Webinar on “Promotion of College Teachers in the Light of UGC Guidelines 2016 and 2018” organized by CAS Committee in collaboration with IQAC, Bethune College, Kolkata on 08.08.2020.

- Participated in the An International Webinar on "The Emerging Pandemic Crisis: Physiological and Socio-environmental Imperatives" Organised by Department of Physiology in Association with IQAC held on 3rd August, 2020 from 6 pm to 9 pm.
- Participated in Webinar "Bi-functional Electrocatalysts for Rechargeable Zinc-Air Batteries" organized by Department of Chemistry, RPS Degree College, Balana, Mahendergarh, Haryana (NCR), 6th August, 2020
- Participated in One-Day State Level Webinar on "Home Management of COVID-19 Patients " organized by the IQAC, Charuchandra College, Kolkata, West Bengal, on 30th July, 2020 (7pm -9pm).
- Participated in the Faculty Development Program held on the July 8th - July 12th, 2020 under the flagship of "Amity Institute of Applied Sciences (Department of Chemistry)" primarily focused on "Recent Advances in Material Science".
- Participated in the TWO-DAY WEBINAR on NAAC ASSESSMENT AND ACCREDITATION PROCESS on 30th and 31st July, 2020 (2.30 P.M. to 5 P.M.) under UGC PARAMARSH Scheme by St. Xavier's College (Autonomous), Kolkata
- Participated in the Webinar on Professional Development of Teachers through e-Resources held on July 04, 2020 organised by Department of Education, University of Allahabad, Prayagraj, U.P.
- Participated in the one day International Webinar on "Strategies to Boost Immunity by Functional Foods to Combat COVID-19" organized by Dept. of Food Processing, in collaboration with Dept. of Nutrition and Research Cell of Mugberia Gangadhar Mahavidyalaya on 15th July, 2020.
- Participated in the Chemistry Webinar- Recent Advances in Chemical Sciences - II, organized by the Post Graduate Department of Chemistry, Lady Brabourne College, dated 18th Jul, 2020.
- Participated in the Webinar held on 22/07/2020 at 4 pm to 6pm National Webinar on "Exploring the Environmental Crisis and Pandemic Health Care in Nightingale Bicentennial" Organized by The Internal Quality Assurance Cell (IQAC) with the support of the Seminar Committee
- Participated in International Webinar on PHYSICAL AND MENTAL HEALTH CARE DURING COVID -19 PANDEMIC SITUATION held on 18th & 19th July, 2020 organized by BIJNAN PARISHAD; Midnapore College (Autonomous), Midnapore.
- Participated in the National Webinar presentation (of one hour) on 'Hydrogen Bonding – A Simple Solution to Challenging Problems' jointly organized by the Department of Chemistry and the IQAC, Narasinha Dutt College, dated 22nd July, 2020,

- Participated in one day webinar on "How to overcome stress during Covid-19 Situation" on 25/06/2020 by IQAC, Sister Nibedita Govt General Degree College for Girls
- Participated in the Natuonal webinar on June 29th 2020 on Application of Radioisotopes and Radiation in Human Healthcare by The Heritage College
- Presented a paper on “Science behind the detection of COVID-19” ,Two-Day International Webinar COVID-19: The Biggest Threat to Human Civilization and Medical Science, (18 July-19 July, 2020) Dept. of Chemistry, Netaji Mahavidyalaya, Arambagh, Hooghly
- Participated in the Webinar held on 15th, 16th and 17th July, 2020, from 6:00P.M. to 8:00P.M., A Three-day International Webinar on “ROLE OF CHEMISTRY IN HUMAN BENEFIT: THREE TALES” Organized by The Department of Chemistry in collaboration with IQAC & Indian Chemical Society
- Presented a paper "Synthesis of Nitrogen-doped water soluble fluorescent graphene nanosheets form cheap sources and its application in visible-light-driven photocatalysts for dye degradation" Two days International webinar on An insight into the recent global pandemic: Chemical and Biological approach, (11th and 12th July, 2020) Dept. of Chemistry and Dept. of Zoology in collaboration with IQAC, Seth Anandram Jaipuria College
- Participated in the webinar on "Recent Advances in Chemical Sciences - I", organized by the Post Graduate Department of Chemistry, Lady Brabourne College, on 8th July, 2020.
- Participated in One-Day International Webinar entitled “Recent Advancement in Chemical Sciences” organized by Department of Chemistry in coordination with IQAC, Ranaghat College on 7th July, 2020.
- Participated in the One Day State Level Webinar On "PHYSIOLOGICAL WELL-BEING DURING THE COVID19 PANDEMIC" Date: 10th July, 2020 Time: 1:45pm - 3:30pm Organized by Department of Physiology and IQAC, Krishnagar Government College
- Participated in one day state level webinar entitled “Sustainable Development in Context of India: Its Chemical Scenario” organized by Department of Chemistry in collaboration with IQAC, Nabadwip Vidyasagar College on 10th July, 2020(6:00 p.m. - 7:30 p.m.).
- Participated in the International Webinar "Academics vs Industry: Choosing the Right Path". organised by Department of Chemistry, Surendranath College under DBT-Star College Strengthening Scheme on 6th July, 2020.
- Participated in the Webinar on ‘Representations in Quantum Mechanics’ jointly organized by the Department of Chemistry and the IQAC, Narasinha Dutt College, dated 9th July, 2020,

- Participated in the workshop on Best Practices for Teaching Online July 4th 2020, Surendranath College for Women, Powered by: The Telegraph online, ABP EDUCATION
- Participated in the Webinar entitled “Scope of Virtual Labs in UG Physics and Chemistry Teaching” conducted on 30th June, 2020 by the Departments of Physics, Chemistry and IQAC, Sarojini Naidu College for Women
- Participated International Webinar on IMPACT OF COVID-19 ON HIGHER EDUCATION & A QUEST FOR POSSIBLE ALTERNATIVES Date : 22-24th June, 2020 Organized by IQAC, Sukanta Mahavidyalaya
- Participated in two days National webinar on "Recent Advances in Chemical Science" during 25th & 26th June, 2020, organized by Department of Chemistry, JB Institute of Engineering and Technology, Hyderabad, India.
- Participated in the One-Day National Level Webinar titled “Metal-Organic Frameworks (MOFs) for Energy and Environment Related Applications” organised by the Department of Chemistry and IQAC, Mahadevananda Mahavidyalaya on June 27, 2020.
- Participated in the Inter National Webinar Better Understanding of Pandemic COVID-19, 23rd June, 2020 organized by IQAC, Kharagpur College
- Participated in the National Webinar on “Current Trends in Chemical Research and Their Correlation with UG Courses” organized by the Department of Chemistry & IQAC, Basirhat College on 23th of June 2020
- Participated in the National Webinar on MIND, BODY, EXERCISE AND LIFE STYLE MANAGEMENT IN CHANGING ENVIRONMENT organized by Dept. of YOGA & NSS Units, 21st June, 2020, Midnapore College (Autonomous), Midnapore
- Participated in the International Online Faculty Enrichment Programme on "Tips & Tricks for Publishing in International Scientific Journals" on June 20th, 2020. Organized by Department of Zoology, Chemistry, Botany & Physics (Under DBT-Star College Strengthening Scheme, Govt. of India) Surendranath College
- Participated in the Webinar 2: 'COVID-19: Economy, Polity and Social media' organized by IQAC, Bethune College on 19.06.2020.
- Participated in the webinar on RECENT TRENDS IN CHEMICAL SCIENCES: BASICS, APPLICATIONS AND PROSPECTS jointly organized by the Department of Chemistry and the IQAC, Narasinha Dutt College, dated 18th June, 2020
- Participated in an e-short-term course on "EARTH: OUR HOME", jointly organized by the Department of Chemistry & IQAC, BASANTI DEVI COLLEGE. 5-11 June, 2020.
- OP (Orientation Programme 115), HRDC-University of Burdwan 08 to 28 August, 2019.

- RC (Online Refresher Course in Chemistry for Higher Education Faculty), 1 November, 2018 to 28 February, 2019, Exam conducted on 30.03.2019, SWAYAM, ARPIT
- Participated in Science Academies' Refreshers Course on The Classroom Chemistry- Concepts and The Curiosities by Jhargram Raj College (6-20/12/2018)
- UGC sponsored workshop on 'Administrative Reforms in Higher Education Institutions: Perspective CBCS', 20-21 March 2018, UGC-HRDC, University of Calcutta
- "National Symposium on Recent Advances in Chemistry and Industry (2017)" 02-03 August, 2017, Indian Chemical Society to commemorate the 156th Acharya Prafulla Chandra Ray at IEST, Shibpur
- National Innovation Festival, 27-29 January, 2017, Science City, Kolkata, India. Innovation Title: Aerobic Respiration by Coal to Generate Electricity under Ambient Condition.
- Symposium on Advanced Biological Inorganic Chemistry (SABIC-2017), Kolkata, January 7-11, 2017 at Hotel Stadel in Kolkata.
- Regional Science Congress, Presidency Division, Kolkata, India 13 - 14 November, 2016, NITTTR, Kolkata, Lecture Title: Water Soluble Nano Carbons Outsmart Blood Brain Barrier to Deliver Drug in Brain.
- International Conference for Functionalized Nano Material, 13-15 September, 2016, Kolkata, India Lecture Title: Indoor Floating Dust Contains Graphene Derivative to Generate Reactive Oxygen Species with Visible Light and Oxygen.
- Research Scholar Colloquium (RSC-2016), 23-24 August, 2016, IEST, Shibpur, India. Lecture Title: Water Soluble Nano Carbon Overcomes the Bottleneck of Drug Delivery in Brain.
- International Conference on Nanoscience and Tissue Engineering, (ICNT-2016), 12-14 August, 2016, Kottayam, Kochi, India. Invited Lecture Title: Water Soluble Nano Carbon for Drug Delivery in Brain and also chaired a session "Degradation of Drugs"
- National level Workshop on Materials Characterization: Principles and Practices (MCP 2016), 25th July to 5th August, 2016 at IEST, Shibpur.
- National Level Workshop on Stress Management, 22-23 July, 2016 at IEST, Shibpur
- Metals in medicine, Gordon Research Conference, 22-27 June, 2014, NH, USA. Poster Title: Nano Carbon onion crosses blood brain barrier.

- Bio-inorganic Approaches to Current Health Problems, 24-28 March, 2014, Pondicherry, India (Indo-French Seminar). Poster Title: Tungsten and Molybdenum Dithiolene Complexes Aggregate to Replicate Natural Flower.
- Overcoming the Bottlenecks in Drug Discovery and Development, 20 - 21 March 2014, Gurgaon, India (Organizer: RSC-DSIN-RANBAXY) Poster Title: Water Soluble Nano Carbon Onions in Bio-imaging and Passing the “Blood Brain Barrier”.

d) RESEARCH WORK HIGHLIGHTED:

- Microcarbon in face creams harmful Published in Nature India, 28th September, 2017. [View](#)
- Here is how use of some facial creams can turn out to be fatal Published in India TV, 27th September, 2017. [View](#)
- Some facial creams can cause death, scientists warn Published in The Statesman, 27th September, 2017. [View](#)
- Beware! Some facial creams can claim your life Published in Times Now, 26th September, 2017. [View](#)
- Caution! Your facial creams could be a reason for your death, Published in The Economic Times, 26th September, 2017. [View](#)
- Some facial creams can even cause death, scientists warn, Published in Business Standard, 26th September, 2017. [View](#)
- Some facial creams can even cause death, scientists warn, Published in India.com, 26th September, 2017. [View](#)
- Safer method to synthesize graphene oxide Published in Nature India, 17th July, 2017 [View](#)
- Trojan horse to transport drugs to brain Published in Nature India, 21st March, 2016 [View](#)
- Easy way to fight hospital pathogens Published in Nature India, 26th October, 2015 [View](#)

H. AWARDS

- Young Researcher Award, 2022 by INSC, Bangalore.
- AWSAR Award 2018 (AW/2018/2730), awardees of 100 best stories by Department of Science and Technology (DST), Govt of India on National Science Day 28/02/2018.
- International Travel Support, by SERB, Govt. of India, 2014.

I. OTHERS:

- Google Scholar profile: <https://scholar.google.co.in/citations?user=tgbBu3wAAAAJ&hl=en>
- Research Gate profile: https://www.researchgate.net/profile/Bholanath_Pakhira2
- ORCID ID: <https://orcid.org/0000-0002-6141-3824>
- Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=55917884600>
- VIDYAN ID: <https://vidwan.inflibnet.ac.in/profile/534066>

Date: 17.07.2026

Dr. Bholanath Pakhira
