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## List of Research Papers in National/International Journal

1. Naturally Occurring Bioactive *O*-Heterocycles: A Quest For New Sources; G. Brahmachari, S. Mondal, **S. K. Jash**, K. S. Mandal, S. Chattopadhyay, A. Gangopadhyay; *Natural Products - An Indian Journal*, 2006, 2(3-4), 74-77.
2. Antibacterial activity of *Adiantum lunulatum*; Goutam Brahmachari, Arindam Gangopadhyay, **Shyamal Jash**, Madhumita Roy and Narayan Chandra Mandal; *Journal of Hill Research*, 2006, 19 (2), 83-86.

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3. Chemical Investigation of *Limnophila rugosa* — An Indigenous Medicinal Plant; D. Gorai, **S. K. Jash**, S. Mandal and G. Brahmachari; *Proceedings of the National Symposium on Medicinal & Aromatic Plants for Economic Benefit of Rural People, Ramkishna Vivekananda Mission Institute of Advanced Studies, Kamarhati, Kolkata-700058, 2007*, 49-52.
4. 5-Hydroxy-3,7,4'-trimethoxyflavone from *Cheilanthes farinose* Kaulf (Cheilanthaceae); Goutam Brahmachari, Arindam Gangopadhyay, **Shyamal K. Jash** and Lalan Chandra Mondal; *Journal of Indian Chemical Society*, **2008**, *85*, 546-547.
5. Cyclooxygenase (COX) — inhibitory flavonoid from *Limnophila heterophylla*; Goutam Brahmachari, **S. K. Jash**, L. C. Mandal, A. Mondal and R. Roy; *RASAYAN—Journal of Chemistry*, **2008**, *1(2)*, 288-291.
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10. Crystal structure Analysis of 3-( $\beta$ -D-glucopyranosyloxy)-5,7-di-hydroxy-2-(4-hydroxy-3-methoxyphenyl)-4H-1-benzopyran-4-one tri- hydrate; Sumati Anthal, Rajiv Roy, Vivek K. Gupta, Rajnikant, Goutam Brahmachari, **Shyamal K. Jash** and Lalan C. Mandal; *X-Ray Structure Analysis Online* (The Japan Society for Analytical Chemistry), **2012**, *28*, 15-16.
11. Recent Progress in the Research of Naturally Occurring Flavonoids: A Look Through; **Shyamal K. Jash** and Goutam Brahmachari; *Signpost Open Access J. Org. Biomol. Chem.*, **2013**, *1*, 65-168.

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14. *Limnophila indica* (Scrophulariaceae): Chemical and pharmacological aspects; Dilip Gorai, **Shyamal K. Jash** and Atasi Sarkar; *International Journal of Natural Products Research*, **2013**, 3(4), 110-114.
15. Chemical and pharmacological aspects of *Limnophila rugosa*: An update; Dilip Gorai, **Shyamal K. Jash**, Raj K. Singh, Atasi Sarkar and Sasadhar Majhi; *International Journal of Natural Products Research*, **2013**, 3(4), 120-124.
16. *Peltophorum pterocarpum*: Chemical and Pharmacological Aspects; **Shyamal K. Jash**, Raj Kumar Singh, Sasadhar Majhi, Atasi Sarkar and Dilip Gorai; *International Journal of Pharmaceutical Sciences and Research*, **2014**, 5(1), 26-36.
17. Chemical and pharmacological aspects of *Limnophila heterophylla* (Scrophulariaceae): An Overview; Dilip Gorai, **Shyamal K. Jash** and Raj K. Singh; *International Journal of Pharmaceutical Sciences Review and Research*, **2014**, 25(2), Article No. 19, 100-102.
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19. Naturally Occurring Calanolides: An Update on Their Anti-HIV Potential and Total Syntheses; Goutam Brahmachari and **Shyamal K. Jash**; *Recent Patents on Biotechnology*, **2014**, 8(3), 3-16.
20. Bioactive Constituents from *Bauhinia variegata* Linn.; **S. K. Jash**, R. Roy and D. Gorai; *International Journal of Pharmaceutical and Biomedical Research*, **2014**, 5(2), 51-54.
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23. Bioactive flavonoid fisetin – A molecule of pharmacological interest; **Shyamal K. Jash** and Sadhan Mondal; *Signpost Open Access J. Org. Biomol. Chem.*, **2014**, 2, 89-128.
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25. Sunlight-induced rapid and efficient biogenic synthesis of silver nanoparticles using aqueous leaf extract of *Osimum sanctum* with enhanced antibacterial activity; Goutam Brahmachari, Sajal Sarkar, Ranjan Ghosh, Soma Barman, Narayan C. Mandal, **Shyamal K. Jash**, Bubun Banerjee and Rajiv Roy; *Organic and Medicinal Chemistry Letter*, **2014**, 4(18), 1-10.
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28. Sugar Derivatives of Morphine: A New Window for the Development of Potent Anesthetic Drugs; **Shyamal K. Jash** and Dilip Gorai; *Natural Products and Bioprospecting*, **2015**, 5, 111-127.
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30. *Salvia* Genus: Minor Isolated Triterpenoid (s); **Shyamal K. Jash**, Dilip Gorai and Rajiv Roy; *International Journal of Innovation Sciences and Research*, **2016**, 5(2), 661-664.
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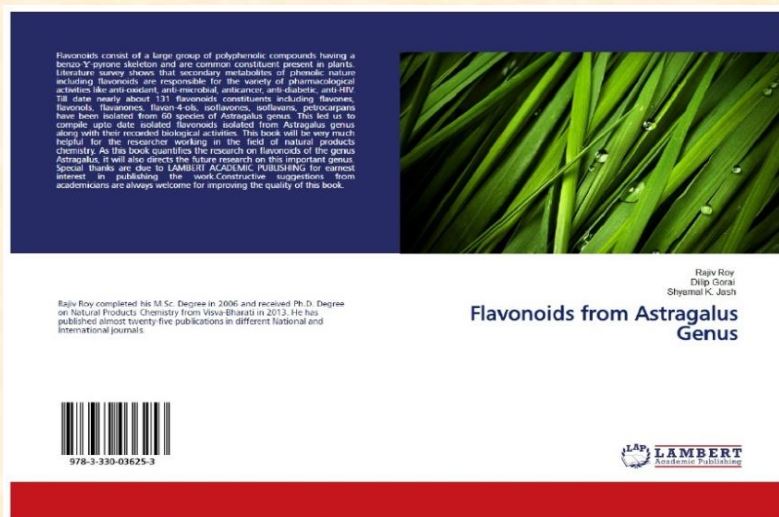
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35. Ethnopharmacological, phytochemical, pharmacological and toxicological aspects of *Lantana camara* L.: A comprehensive Review; Dilip Gorai, **Shyamal K. Jash** and Rajiv Roy; *Advances in Biomedicine and Pharmacy*, 2016; 3(5), 328-357.
36. Computational and Docking Studies of 5,6-dihydroxy-7,8,4'-trimethoxyflavone: A  $\alpha$ -Glucosidase Inhibitory Constituent from *Limnophila indica*; Dipak Kumar Rana, Dipanwita Saha, Partha Sarathi Sengupta, Bipul Sarkar, Palash Mondal, Dilip Gorai and **Shyamal K. Jash**; *Journal of Chemistry and Chemical Sciences*, 2018; 8(3), 548-561.
37. *Lantana Camara*: Ransack of Phytochemical and Pharmacological Aspect; **Shyamal K. Jash** and Lalan Chandra Mandal; *International Journal of Green and Herbal Chemistry*, 2018; 7(3), 369-381.
38. Nuclear Magnetic Resonance Spectroscopic Behaviour of Some Selective Natural Flavonoids: A Look Through; **Shyamal K. Jash**, Dilip Gorai, Lalan Chandra Mandal and Rajiv Roy; *Mini-Reviews in Organic Chemistry*, 2020, 17(2), 185-196.
39. Concealed Chemical Cue in Human Relationship with Smell; **Shyamal K. Jash** and Lalan Chandra Mandal; *Journal of Advance Scientific Research*, 2020, 11(2), 17-24.
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42. Cytotoxicity of Natural Flavones and Flavonols Against Different Cancer Cells.; Arindam Gangopadhyay, Syamantak Chakraborty **Shyamal K. Jash** and Dilip Gorai; *Journal of the Iranian Chemical Society*, 2022, 1-27.

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## Book Chapters in Edited Volume

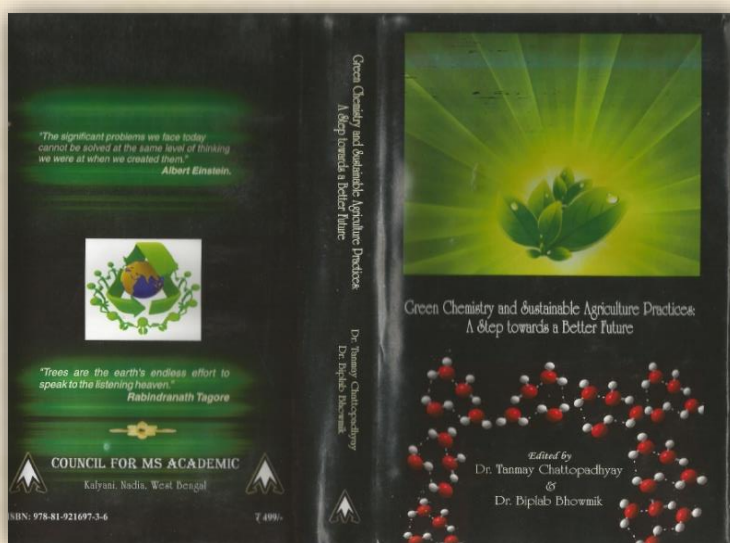
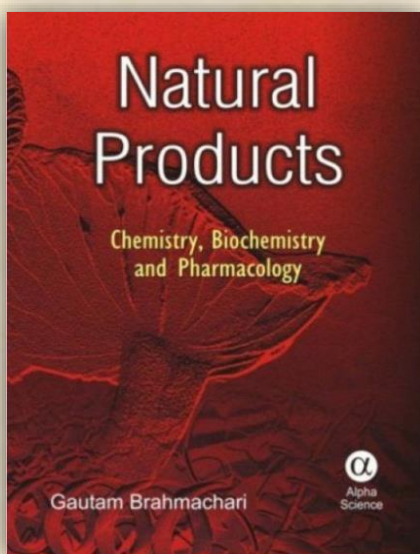
1. Goutam Brahmachari, Sadhan Mondal and **Shyamal K. Jash**; *Nuclear magnetic resonance spectroscopic behaviour of naturally occurring abietane-diterpenoids: A look through*, In "NATURAL PRODUCTS: CHEMISTRY, BIOCHEMISTRY & PHARMACOLOGY", G. Brahmachari (ed.), 1<sup>st</sup> ed., Narosa Publishing House, New Delhi, India/Alpha Science International, Oxford, U.K., **2009**, 734-781. (ISBN: 978-81-7319-886-1/978-1-84265-450-7).
2. **Shyamal K. Jash** and Dilip Gorai; *Trends in Development of Biopesticides*, In "GREEN CHEMISTRY AND SUSTAINABLE AGRICULTURE PRACTICES: A STEP TOWARDS A BETTER FUTURE", T. Chattopadhyaya and B. Bhowmik (eds.), 1<sup>st</sup> ed., Council for MS Academic, Kalyani, Nadia, West Bengal, India, **2013**, 185-204. (ISBN: 978-81-921697-3-6).
3. Binay Barman and **Shyamal K. Jash**; *Human Right and The Human Society: A Study on Historical Perspectives*, In "MANABADHIKAR: SWARUP O TAR PRATISTHA", Shaikh Sirajuddin and Bidhan Mukherjee (eds.), 1<sup>st</sup> ed., Desh Prakashan, 65, Stand Road, Kolkata-700006, West Bengal, India, **2016**, 65-82 (ISBN: 978-93-81678-73-2).
4. Rajiv Roy, **Shyamal K. Jash** and Dilip Gorai; *Phytochemical and GC-MS Studies on Symphorema polyandrum seeds*, In "CHEMISTRY ON ITS WAYS: IMPACT ON



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THE ENVIRONMENT", S. K. Mandal, S. K. Jash, D. Rana and S. Sahana (eds.), 1<sup>st</sup> ed., Cinnamara College Sakha Sahitya Sabha and Publication, Cinnamara, Jorhat, Assam, India **2017**, 58-71 (ISBN: 978-93-84191-17-7).

5. **Shyamal K. Jash**, Dilip Gorai, Nilam Sing and Palash Mondal; **Synthesis and Characterization of Cu(II) Complex Containing a N-Donor Schiff Base: DNA binding study**, In "NIOONLINEAR DYNAMICS AND ITS APPLICATION IN PHYSICAL AND BIOLOGICAL SCIENCES", Swapan Kr. Ghosh (ed.), 1<sup>st</sup> ed., Book Center, Auroma Market, Simantapally, Santiniketan-731235, West Bengal, India, **2017**, 182-191 (ISBN: 978-81-92162-5-6).
6. **Shyamal K. Jash** and Lalan Chandra Mandal; **Cultivation of Observation on Soil Carbon Dynamics and Aspect of Some Mathematical Insight**, In "RECENT DEVELOPMENTS IN NONLINEAR DYNAMICS AND IT'S APPLICATIONS", Nupur Bhakta (ed.), 1<sup>st</sup> ed., Book Center, Auroma Market, Santiniketan, West Bengal & Aakar Books, 28E Pocket IV, Mayur Vihar Phase I, New Delhi, India; **2020**, 77-93 (ISBN: 978-81-944611-1-1).
7. Dilip Gorai, **Shyamal K Jash** and Debasish Kundu; **Progress in the Research of Naturally Occurring Biflavonoids: A Look Through**, In "FRONTIERS IN NATURAL PRODUCT CHEMISTRY", Atta-ur-Rahman (ed.), Vol-10, Bentham Science Publishers Pte. Ltd, 80 Robinson Road, Singapore; **2022**, 73-153 (ISBN: 978-981-5040-77-7).
8. **Shyamal K Jash**; **Chemistry and Role of Flavonoids in Agriculture: A Recent Update**, In "Flavonoid Metabolism - Recent Advances and Applications in Crop Breeding", Dr. Hafiz Muhammad Khalid Abbas (ed.), IntechOpen Limited, 5 Princes Gate Court, London, United Kingdom; **2022**, 1-27 (ISBN: 978-1-80356-705-1).



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OPEN ACCESS PEER-REVIEWED CHAPTER - ONLINE FIRST

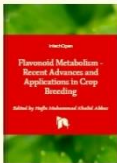
## Chemistry and Role of Flavonoids in Agriculture: A Recent Update

WRITTEN BY  
Shyamal K. Jash

Submitted: June 28th, 2022 , Reviewed: July 14th, 2022 , Published: August 20th, 2022  
DOI: 10.5772/intechopen.106571

FROM THE EDITED VOLUME

**Flavonoid Metabolism - Recent Advances and Applications in Crop Breeding [Working Title]**  
Dr. Hafiz Muhammad Khalid Abbas and Dr. Aqeel Ahmad






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## Seminars/Conferences Proceeding Abstracts

1. ***Limnophila rugosa* – A new source for Salvigenin**; Goutam Brahmachari, **Shyamal Jash**, Arindam Gangopadhyay and Sadhan Mondal; *Proceedings of the 42<sup>nd</sup> Annual Convention of Chemists-Feb.9-13<sup>th</sup>, 2006*, Dept. of Chemistry, Visva-Bharati University, Santiniketan, W.B., India, OP-11, C-10.
2. **Naturally occurring O-heterocycles: A quest for new sources**; G. Brahmachari, **S. K. Jash**, L. C. Mandal and A. Gangopadhyay; *Proceedings of the INDO-US Conference on New Bioactive Molecules in Pharmaceutical Research-Contribution of Natural Products*, 13-14<sup>th</sup> Nov. **2006**, IICT, Hyderabad, India, p-46.
3. **Evaluation of Cyclooxygenase inhibition activity of Nevadensin – A Pentaoxygenated Flavonoid isolated from *Limnophila hetrophylla***; **Shyamal K. Jash**, Satyajit Chattopadhyay, Lalan C. Mandal, Uttam C. Banerjee and Goutam Brahmachari; *Proceedings of the National Seminar on Medicinal Plants: Indian Medicinal Plants to Marketable Drugs*, 8-9<sup>th</sup> March, **2007**, Midnapore College, Midnapore, W.B., India, p-14.
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5. **Antimicrobial activities of 5,7-Dihydroxy-6,8,4'-trimethoxyflavone**; Arindam Gangopadhyay, **Shyamal K. Jash**, Lalan C. Mandal, Sajal Sarkar and Goutam Brahmachari; *Proceedings of the 10<sup>th</sup> CRSI National Symposium in Chemistry*, 1-3<sup>rd</sup> Feb., **2008**, Indian Institute of Science, Bangalore, India, PP-256, p-357.
6. **5,7-Dihydroxy-6,8,4'-trimethoxyflavone – A Potent Antibacterial Agent**; **Shyamal K. Jash**, Lalan C. Mandal, Rajiv Roy, Avijit Mondal and Goutam Brahmachari; *Proceedings of the International Conference on The Interface of Chemistry-Biology in Biomedical Research*, 22-24<sup>th</sup> Feb., **2008**, Birla Institute of Technology and Science, Pilani, Rajasthan, India, PP-249, p-353.
7. **An Antimicrobial Flavonoid from *Limnophila indica***; Sujay Laskar, Sajal Sarkar, **Shyamal K. Jash**, Sasdhar Majhi and Goutam Brahmachari; *Proceedings of The 96<sup>th</sup> Indian Science Congress-2009*, North-Eastern Hill University, Shillong, Meghalaya, India.
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Goutam Brahmachari; *Proceeding of the 2<sup>nd</sup> UGC Sponsored National Seminar on Advanced Spectroscopy, Theoretical Chemistry, Synthesis, Reaction and Structural Evaluation*, 20-22<sup>th</sup> Feb., **2009**, Dept. of Chemistry, University of Burdwan, Burdwan, West-Bengal, India, *OP-14*, P-39.

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**Shyamal K. Jash** and Goutam Brahmachari; *Proceedings of the IX<sup>th</sup> CRSI (Kolkata Chapter) Symposium on Chemical Research in the First Decade of 21<sup>st</sup> Century*, 6<sup>th</sup> August, **2011**, Dept. of Chemistry, Visva-Bharati, Santiniketan, W.B., India, P-23, PP-55.

16. **Triterpenoid Constituents of *Rauvolfia tetraphylla* Linn. (Apocynaceae);** Dilip Gorai, **Shyamal K. Jash** and Goutam Brahmachari; *Proceedings of the National Seminar on Current Trends in Chemistry*, 25-26<sup>th</sup> November, **2011**, Dept. of Chemistry, Deshabandhu Mahavidyalaya, Chittaranjan, Burdwan, W.B., India, P-1, PP-34.
17. **Spectral and X-Ray Crystallographic Studies of Isorhamnetin-3-O- $\beta$ -D-glucopyranoside: A Pharmaceutically Potent Flavonoid Glycoside from *Argemone mexicana* (Papaveraceae);** Goutam Brahmachari, Sasadhar Majhi, Sajal Sarkar, Dilip Gorai and **Shyamal K. Jash**; *Proceedings of the National Seminar on Recent Advances in Chemical Science*, 15-17<sup>th</sup> March, **2012**, Dept. of Chemistry, University of Burdwan, Burdwan, W.B., India, OP-11, PP. 36-39.
18. **Trends in Development of Biopesticides; Shyamal K. Jash** and Dilip Gorai; *Proceedings of the UGC sponsored National Seminar on Green Chemistry and Sustainable Agriculture Practices: A Step towards a Better Future*, 1-2<sup>nd</sup> February, **2013**, Panchakot Mahabidyalaya, Sarbari More, Neturia, Purulia, W.B., India.
19. **Use and Conversation of Medicinal Plants; Shyamal K. Jash**; Invited talk in the seminar session of NSS special camp programme—organized by NSS Unit, Kulti College, Kulti, Burdwan-713 343, W.B., India, 22-28<sup>th</sup> February, **2013**.
20. **Medicinal Plants: Use in Anti HIV and their Conversation; Shyamal K. Jash**; Invited talk in the seminar session on “AIDS Consciousness and its Remedy with Medicinal Plants”— organized by NSS Unit, Saldiha College, Saldiha, Bankura-722 173, W.B., India, 4-5<sup>th</sup> March, **2013**
21. ***Peltophorum pterocarpum* (DC): Chemical and Pharmacological Aspects;** Dilip Gorai, **Shyamal K. Jash** and Arindam Gangopadhyay; *Proceedings of the UGC-DRS sponsored National Seminar on Bioprospecting of Natural Products*, 5-6<sup>th</sup> December, **2013**, Dept. of Zoology, University of Burdwan, Burdwan-713104, W.B., India, PA-02, PP. 38.
22. **3-Oxo-olean-12(13),18(19)-dien-29 $\alpha$ -carboxylic acid: A potent antibacterial triterpenoid from *Limnophila indica* (Scrophulariaceae);** Shyamal K. Jash, Sadhan Mondal and Goutam Brahmachari; *Proceedings of the International Conference on Global Opportunities for Latest Developments in Chemistry and Technology-2014*, 6-8<sup>th</sup> February, **2014**, School of Chemical Sciences, North

# PERSONAL PROFILE

Maharashtra University, Jalgaon, M.P., India, *PP-109*, P. 141 (**Best Poster Paper Presentation Award**).

23. **Steroid constituents of *Peltophorum pterocarpum*; Shyamal K. Jash**, Arindam Gangopadhyay and Dilip Gorai; *Proceedings of the 21<sup>st</sup> West-Bengal Science & Technology congress*, 20-21<sup>st</sup> February, **2014**, University of Burdwan, Burdwan-713104, West-Bengal, India, *C-15*, P-136.
24. **An anthraquinone derivative from *Cassia sophera* Linn. (Caesalpinaceae); Shyamal K. Jash**, Avijit Mondal, Sasadhar Majhi and Goutam Brahmachari; *Proceedings of the National Seminar on Recent Advances in Chemistry*, 9<sup>th</sup> March, **2014**, Dept. of Chemistry, Visva-Bharati (A central University), Santiniketan, W.B., India, *P-36*, PP. 51.
25. **Fruit, Vegetable and Risk of Cancer; Shyamal K. Jash**; Invited talk in the seminar session of NSS special camp programme—organized by NSS Unit, Saldiha College, Saldiha, Bankura-722 173, W.B., India, 14-20<sup>th</sup> March, **2014**.
26. **Synthesis of silver nanoparticles in aqueous leaf extract of Tulsi with enhanced antibacterial activity: A photo-biological approach**; Dilip Gorai, Arindam Gangopadhyay and **Shyamal K. Jash**; *Proceedings of the International Conference on Nonlinear Dynamics and its Applications in Physical and Biological Sciences (CNDAPBS-14)*, 1-3<sup>th</sup> November, **2014**, The Department of Physics, Darjeeling Govt. College, Darjeeling, W.B., India, P. 58-59.
27. **Awareness on Swine flu; Shyamal K. Jash**; Invited talk in the seminar session of NSS special camp programme—organized by NSS Unit, Saldiha College, Saldiha, Bankura-722 173, W.B., India, 21-26<sup>th</sup> March, **2015**.
28. **1,6-dihydroxy-3-methyl anthraquinone: A bioactive polyphenolic compound from *Cassia sophera* Linn. (Caesalpinaceae); Shyamal K. Jash**; *Proceedings of the State Level One Day Seminar on Recent Trends in Chemical Sciences (RTCS-2015)*, 16<sup>th</sup> July, **2015**, Dept. of Chemistry, Bankura Sammilani College, Bankura, W.B., India, P-5, PP. 17-18.
29. **Phytochemical Analysis of *Symphorema polyandrum* Seeds by GC-MS**; Dilip Gorai; **Shyamal K. Jash** and Rajiv Roy; *Proceedings of the 1<sup>st</sup> Regional Science & Technology congress-2016, Bardhaman Division*, November 7-8, **2016**, Bankura Christian College, Bankura, W.B., India, P-84.
30. **Sunlight-induced rapid and efficient biogenic synthesis of silver nanoparticles using aqueous leaf extract of *Ocimum sanctum* Linn. with enhanced antibacterial activity**; **Shyamal K. Jash**; *Proceedings of the UGC Sponsored National Conference on Recent Advances in Chemistry for Better*



# PERSONAL PROFILE

*Tomorrow (RACBT-2016)*, November 24-25, **2016**, Dept. of Chemistry, Kashipur Michael Madhusudan Mahavidyalaya, Purulia, W.B., India, P-28, PP. 63

31. **Nanotechnology and Its Impact on Our Future World; Shyamal K. Jash**; Invited talk in the Two days national on ***Chemistry on Its way: Impacts on the Environment (CIW-II)***—organized by Department of Chemistry, Saldiha College, Saldiha, Bankura-722 173, W.B., India, 31<sup>st</sup> August & 1<sup>st</sup> September, **2017**.
32. **An isoflavone from *Peltophorum ptrerocarpum*, Shyamal K. Jash**, Lalan C. Mandal & Dilip Gorai; *Proceedings of the International Science Seminar*; October 10, **2017**, Burdwan Raj College, Burdwan, West Bengal, India, PP. B56.
33. **5,7-Dihydroxy-2',3',4'-trimethoxyisoflavone: A bioactive flavonoid from *Peltophorum ptrerocarpum*; Shyamal K. Jash & Dilip Gorai**; *Proceedings of the International Science Seminar on "Science: Past, Present & Future"*; December 12, **2017**, Syamsunder College, Burdwan, West Bengal, India, P. 88.
34. **Ecotoxicological Aspect of *Lantana Camara***; Lalan Chandra Mandal & **Shyamal K. Jash**; *Proceedings of the Third International Conference on the theme "Mother Earth: Environmental Crisis & Sustainable Strategies"*; January 11-13, **2018**, Department of Environmental Science, The University of Burdwan, Purba Bardhaman, West Bengal, India, P. 49.
35. **Introspection of Soil Carbon Dynamics and Its Impact on Climate Change**; Lalan Chandra Mandal & **Shyamal K. Jash**; *Proceedings of the 2<sup>nd</sup> International Conference on Frontiers in Biological, Environmental and Medical Sciences (fbems)*; March 07-09, **2019**, The University of Burdwan, Purba Bardhaman, West Bengal, India, BCS-08, P. 32.
36. **Sunlight-Induced Silver Nano-Particles Synthesis; Shyamal K. Jash**; Invited talk in the Virtual Value Added Course on ***Green Chemistry: Through Original Research (August 1-31, 2020)*** — organized by Department of Chemistry, Indus International University, V.P.O Bathu, Una, Himachal Pradesh, India on August 03, **2020**.
37. **Special Invited Lecturer on Covid-19 & Vaccination**; Invited talk in the One Day Webinar on **Importance of Timely Vaccination. — organized** by NSS Unit in collaboration with IQAC, Krishna Chandra College, Hetampur, Birbhum, India on **September 24, 2021**.
38. **Computational and Docking Studies of 5,6-Dihydroxy-7,8,4'-Trimethoxyflavone: A  $\alpha$ -Glucosidase Inhibitory Constituent From *Limnophila Indica*; Shyamal K. Jash**; *Proceedings of the virtual "International Conference on Recent Trends in Green Chemistry (ICRTGC-2021)"*; **September**

# PERSONAL PROFILE

**28-30, 2021**, Department of Chemistry, Akal University, Punjab, and Indian Chemical Society, Kolkata. West Bengal, India. **(Best Paper Presentation Award in Category-3).**

## National/International Seminar/Conferences/Workshops Attended

1. Seminar on Polymer Waste Management— organized by the Department of Chemistry, Visva-Bharati University, Santiniketan-731 235, W.B., India, 16-17<sup>th</sup> December, **2006**.
2. National Workshop on Conservation and Preservation of Natural Resources— organized jointly by Centre for Environmental Studies (CES) & Integrated Programme in Physical Science, Siksha-Bhavana, Visva-Bharati, Santiniketan-731 235, W.B., India, 19<sup>th</sup> March, **2009**.
3. Workshop on Gender Inequality in Education and the Role of NSS— organized by NSS Units, Kulti College, Kulti, Burdwan, W.B., India, 27<sup>th</sup> January, **2010**.
4. UGC Sponsored Two-Day National Seminar on Value Based Education: Necessity and Implementation— organized by Teachers' Council, Khatra Adibasi Mahavidyalaya, Khatra, Bankura, W.B., India, 21-22<sup>nd</sup> January, **2011**.
5. UGC Sponsored One-Day Seminar on International Year of Chemistry: Impact of Chemistry on Our Lives — organized by The Department of Chemistry, Siksha-Bhavana, Visva-Bharati, Santiniketan-731 235, W.B., India, 25<sup>th</sup> March, **2011**.
6. Science Academies' Education Programme, Lecture Workshop on 'Recent Development in Chemistry' — organized by The Department of Chemistry, Siksha-Bhavana, Visva-Bharati, Santiniketan-731 235, W.B., India, 29<sup>th</sup> November – 1<sup>st</sup> December, **2012**.
7. The 100<sup>th</sup> Indian Science Congress — organized by The Indian Science Congress Association, 14, Dr. Biresh Guha Street, Kolkata-700 017, held at Calcutta University, Kolkata, W.B., India, 3-7<sup>th</sup> January, **2013**.
8. The 5<sup>th</sup> Indian Youth Science Congress — held in Visva-Bharati (A Central University), Santiniketan-731 235, West Bengal, India, 6-9<sup>th</sup> December, **2013**.
9. NAAC (NQRI)-Sponsored Workshop for Academic Administration — organized by The University of Burdwan held at DEE Auditorium, Golapbag, Burdwan, W.B., India, 30-31<sup>st</sup> October, **2014**.
10. Workshop on "All India Survey on Higher Education (AISHE), 2013-14" — organized by the collaboration with MHRD, UGC, State AISHE & University of Burdwan held at DEE Auditorium, Golapbag, Burdwan, W.B., India, 3<sup>rd</sup> December, **2014**.



# PERSONAL PROFILE

11. One day Seminar on 'Gita-A Discussion on Scientific Perspective' — organized by Iskcon Mayapur in collaboration with Teachers' Council, Saldiha College, Saldiha, Bankura-722173, W.B., India, 26th November, **2014**.
12. Science Academies' Education Programmes, Lecture Workshop on 'Recent Trends in Chemistry with Reference to Teaching and Research' — organized by The Department of Chemistry, Siksha-Bhavana, Visva-Bharati, Santiniketan-731 235, W.B., India, 13<sup>th</sup> & 14<sup>th</sup> March, **2015**.
13. Science Academies' Education Programme, Short Duration Lecture Workshop on 'Recent Trends in Interdisciplinary Sciences' — organized by Integrated Science Education and Research Centre (ISERC), Siksha-Bhavana, Visva-Bharati, Santiniketan-731 235, W.B., India, February 12-14, **2018**.
14. Attended the — Science Academies' Education Programme, Short Duration Lecture Workshop on 'Recent Trends in Interdisciplinary Sciences' — organized by Integrated Science Education and Research Centre (ISERC), Siksha-Bhavana, Visva-Bharati, Santiniketan-731 235, W.B., India, February 12-14, **2018**.
15. Attended the — Webinar on 'Pharmaceutical Chemistry' — organized by Basanti Devi College, Kolkata, in collaboration UG Board of Studies, The University of Calcutta, W.B., India, June 06, **2020**.
16. Attended the — Webinar on "Recent Advancement in Chemical Sciences" — organized by Ranaghat College, W.B., India, July 07, **2020**.
17. Attended the — 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, W.B., India on July 10, **2020**.
18. Attended the — International Webinar on "Recent Advances in Chemistry" organized by Department of Chemistry and IQAC, Vivekananda Mahavidyalaya, Burdwan on July 15, **2020**.
19. Attended the — National Level Webinar on "Effect of Donor Atom in Chemistry" organized by Department of Chemistry, Balagarh Bijoykrishna Mahavidyalaya, Hooghly, West Bengal, India on July 26, **2020**.
20. Attended the — International Webinar on "Material Science Research and The Recent Trends" organized by Department of Physics, Balagarh Bijoykrishna Mahavidyalaya, Hooghly, West Bengal, India on July 28, **2020**.
21. Attended the — International Webinar on "Frontiers at The Interface of Chemistry and Biology" organized by Department of Chemistry & IQAC, Saldiha College, Saldiha, Bankura, West Bengal, India on August 30, **2020**.

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22. Attended the – One Day International Webinar on “Environment, Development and Sustainability” organized by Department of Geography & IQAC, Krishna Chandra College, Hetampur, Birbhum, West Bengal, India on September 20, **2020**.
23. Attended the – One Day Webinar on “Advance Level Study on Chemical Sciences” organized by Department of Chemistry, School of Science, Netaji Subhas Open University, West Bengal, India on September 23, **2020**.
24. Attended the – One Day National Level Webinar on “Building a Better Chemistry Culture - A Look Back & A Look Forward” organized by Department of Chemistry, Bankura Christian College, Bankura, West Bengal, India on September 28, **2020**.
25. Attended the – One Day International Webinar on “Recent Trends in Scientific Engineering and Industrial Research and Environment Concern” organized by Department of Chemistry, Bolpur College, Bolpur, Birbhum, West Bengal, India on September 30, **2020**.
26. Attended the – Self Learning Online Course on “Understanding Open Educational Resources” offering by Commonwealth of Learning, Canada on November 04, **2020**.
27. Attended the – Seven day virtual workshop on “Yoga for All” organized by NSS Units & IQAC, Krishna Chandra College, Hetampur, Birbhum, West Bengal, India from June 15-21, **2021**.
28. Attended the – “Yoga Appreciation Programme” organized by Yoga Certification Board, Ministry of AYUSH, Government of India on June 22, **2021**.
29. Attended the – Two Day International Webinar on “Introduction to Nano Chemistry: Applications and Challenges” organized by Department of Chemistry, Acharya B. N. Seal College, Cooch Behar, West Bengal, India from June 24-25, **2021**.
30. Attended the – One Day National-Level Webinar On “Recent Advances in Materials and Nanoscience (RAMAN’21)” organized by Department of Chemistry, Ramananda College, Bishnupur Bankura, West Bengal, India on November 12, **2021**.
31. Attended the – One Day International-Level Webinar On “Polymer Chemistry Research Advancements in recent Years (PCRA’Y)-2022” organized by Department of Chemistry, Ramananda College, Bishnupur Bankura, West Bengal, India on January 04, **2022**.



# PERSONAL PROFILE

## Research Projects

1. U.G.C. Sponsored Minor Research Project. Title: Phytochemical Investigation of *Synedrella nodiflora* – An Indigenous Medicinal Plant; Duration: 18 months (01-03-2009 to 31-08-2010).
2. U.G.C. Sponsored Minor Research Project. Title: Evaluation of antioxidant and antimicrobial potentials of the phytochemical constituents of *Cassia spp*; Duration: 24 months (03-03-2015 to 02-03-2017).

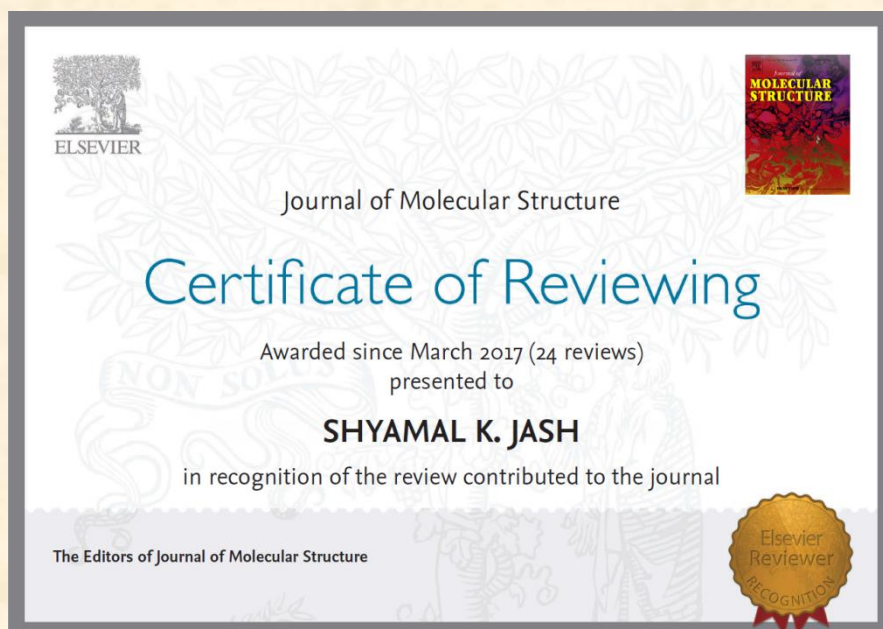


## International & National links for Teaching & Research

1. Acting as reviewer in many national and international scholarly, peer-reviewed journals and books. Such as —
  - a) *Journal Molecular Structure* [ISSN: 0022-2860], available online at <https://www.journals.elsevier.com/journal-of-molecular-structure/>
  - b) *Pharmaceutical Biology* [ISSN: 1388-0209 (print), 1744-5116 (electronic)], available online at <http://informahealthcare.com/loi/phb>
  - c) *Journal of Social Science and Humanity Research* [ISSN 2321-8909], available online at <http://jsshhsaldiha.com/>
  - d) *ISABB Journal of Food and Agricultural Sciences* [ISSN: 1937-3244], available online at [www.academicjournals.org/journal/ISABB-JFAS](http://www.academicjournals.org/journal/ISABB-JFAS)

# PERSONAL PROFILE

- e) *African Journal of Plant Science* [ISSN: 1996-0824], available online at [www.academicjournals.org/journal/AJPS](http://www.academicjournals.org/journal/AJPS)
- f) *African Journal of Biochemistry Research* [ISSN: 1996-0778], available online at [www.academicjournals.org/AJBR](http://www.academicjournals.org/AJBR)
- g) *HortScience* [ISSN: 0018-5345 (Print) & 2327-9834 (Online)], available online at <https://journals.ashs.org/hortsci/abstract/journals/hortsci/hortsci-overview.xml>
- h) *African Journal of Biotechnology* [ISSN: 1684-5315], available online at [www.academicjournals.org/AJB](http://www.academicjournals.org/AJB)
- i) *International Journal for Biotechnology and Molecular Biology Research* [ISSN: 2141-2154] available online at [www.academicjournals.org/IJBMBR](http://www.academicjournals.org/IJBMBR)
- j) *African Journal of Food Science* [ISSN: 1996-0794], available online at <https://academicjournals.org/journal/AJFS>



- Associate with Prof. (Dr.) Goutam Brahmachari, Laboratory of Natural Products and Organic Synthesis, Department of Chemistry, Visva-Bharati (A Central University), Santiniketan, West Bengal, India.
- Associate with Prof. (Dr.) Narayan Chandra Mandal, Microbiology and Plant Pathology Laboratory, Department of Botany, Visva-Bharati (A Central University), Santiniketan, West Bengal, India.
- Associate with Dr. Dilip Gorai, Department of Chemistry, Bolpur College (Affiliated to the University of Burdwan), Bolpur, Birbhum-731204, West Bengal, India.



# PERSONAL PROFILE

## Member of Professional Bodies

Agency/Organisation	Type	Since	Membership ID
Indian Science Congress Association	Life Member	2014	L24652
Prof. Sukumar Maiti Polymer Award Foundation (PSMPAF)	Life Member	2015	107/2014

## Faculty Development Courses or Programmes Attended

Sl. No.	Course	Sponsoring Agency	Institutions	Period/Date
1	80 <sup>th</sup> Orientation Programme (OP)	UGC	UGC Academic Staff College, The University of Burdwan, India.	14 <sup>th</sup> May, 2011 to 10 <sup>th</sup> June, 2011
2	21 <sup>st</sup> Refresher Course (RC) in Environmental Sciences	UGC	UGC Academic Staff College, The University of Burdwan, India.	22 <sup>nd</sup> September, 2012 to 12 <sup>th</sup> October, 2012
3	Refresher Programme in Chemistry	UGC	Faculty Development Centre, IIT (ISM), Dhanbad, Jharkhand, India	1 <sup>st</sup> June, 2017 to 21 <sup>st</sup> June, 2017
4	Short Term Course (workshop) in Remote Sensing & GIS	UGC	HRDC, The University of Burdwan, WB, India	12 <sup>th</sup> March, 2019 to 18 <sup>th</sup> March, 2019
5.	Short Term Course (workshop) in Accreditation of NAAC and Choice Base Credit System	UGC	HRDC, The University of Burdwan, WB, India	11 <sup>th</sup> February, 2020 to 17 <sup>th</sup> February, 2020

## Extracurricular/ Administrative Activities

1. Experience in Information Technology.
2. Three years and about two months teaching experience in Lova Vidyamandir (High) School, Lova, Galsi, Burdwan, as a Assistant Teacher in Chemistry. [From 16.05.2005 to 21.07.2008].
3. Nine years and about one weak teaching experience in Saldiha College, Saldiha, Bankura, as an Assistant Professor in Chemistry. [From 23.07.2008 to 31.07.2017]

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4. Acted as Coordinator of U.G.C. sponsor Remedial Coaching from 01.07.2010 to 31.03.2017.
5. Acted as Assistant Teaching Council Secretary (ATCS) for the years 2010-11, 2011-12, 2012-13 & 2013-2014 (Four terms).
6. Acted as IQAC coordinator of Saldiha College under XII plan UGC Scheme for the period 01.09.2014 to 31.03.2017.
7. Acted as Saldiha College Nodal Officer for All India Survey on Higher Education, Ministry of Human Resource Development, Govt. of India from 01.07.2013 to 31.03.2017.
8. Acted as Teaching Council Secretary (TCS) for the year 2014-15, 2015-16 & 2016-17 (Three terms).
9. Acted as Nodal Observer for the Teacher Eligibility Test 2015 (Upper Primary Level) for Assistant Teachers, conducted by West Bengal School Service Commission (Western Region), Bankura, West Bengal, India.
10. Acted as Superintendent of Nivedita Girls' Hostel of Saldiha College from Sept. 1, 2015 to June 30, 2017.
11. Acted as Coordinator of RUSA committee of Saldiha College from 01.12.2016 to 31.07.2017.
12. Acted as Observer for UGC Accredited 20<sup>th</sup> State Eligibility Test (SET)-2017 on 3<sup>rd</sup> December, 2017 at Bolpur College Centre, conducted by West Bengal College Service Commission (WBCSC), Kolkata, West Bengal, India.
13. Acted as Observer for BDP Term End Theory Examination at Rampurhat College Centre, conducted by Netaji Subhas Open University, Kolkata, West Bengal, India.
14. Acted as Coordinator of District Science Fair 2017 at Krishna Chandra College, organized by Department of Youth Service & Sports, Govt. of West Bengal, Birbhum District.
15. Acted as Officer on Special Duty (OSD) for NIOS D. El. Ed. Examination at Bolpur Exam Centre, conducted by National Institute of Open Schooling, Regional Centre, Kolkata.]
16. Acted as Teaching Council Secretary (TCS) of Krishna Chandra College for the year 2018-19.



# PERSONAL PROFILE

17. Acted as Coordinator of District Level Youth Parliament Competition & Quiz Contest 2019-2020 at Krishna Chandra College, organized by Department of Youth Service & Sports, Govt. of West Bengal, Birbhum District.
18. Acting as Coordinator, DBT-Star College Scheme, Govt. of India, of Krishna Chandra College from July 2020 to till date
19. Acting as Nodal Officer, Banglar Uchchashiksha, Dept. of Higher Education, Govt. of West Bengal of Krishna Chandra College from January 2021 to till date

## Associated with any other Organization

1. Associate with Visva-Bharati & The University of Burdwan, Bankura University, Kazi Nazrul University for Academic & Research Purpose.

## Other Academic Activities

1. Acting as the Answer Scripts Evaluator (Chemistry) at U.G. level under the University of Burdwan, India.
2. Acting as reviewer in chemistry under the University of Burdwan.
3. Acting as the External Examiner/Internal Examiner to conduct the Practical Examinations (Chemistry) at U.G. level under the University of Burdwan, India.
4. Acted as the Answer Scripts Evaluator (Chemistry) for 12<sup>th</sup> RLST (A.T) 2011 for Assistant Teachers, Western Zone, School Service Commission, West Bengal, India.
5. Acted as the Subject Expert (Chemistry) for Personality Test for 12<sup>th</sup> RLST (A.T) 2011 for Assistant Teachers, Western Zone, School Service Commission, West Bengal, India.
6. Acted as the Paper setter (Chemistry) at Pre-degree level under the Visva-Bharati University, Santiniketan, West Bengal, India.
7. Acted as the Answer Scripts Evaluator (Chemistry) at Pre-degree level under the Visva-Bharati University, Santiniketan, West Bengal, India.
8. Acted as member of different Sub-Committees belong in our college.

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9. Acted as member of different Committees of Seminars/Conferences/Symposia etc. at college and university level.
  10. Acted as the Subject Expert (Chemistry) for recruitment one project assistant in the DST-SERB sponsored project at Department of Chemistry, Saldiha College, Bankura, WB, India.
  11. Acted as the Subject Expert (Chemistry) for recruitment of Two Guest Lecturers in the Department of Chemistry, Khatra Adibasi Mahavidyalaya, Khatra, Bankura, WB, India.
  12. Acted as the Subject Expert (Chemistry) & Central Nominee (English, Geography) for Personality Test for 1<sup>st</sup> SLST (AT)-2016 for Classes XI-XII, Northern Regional Office, Malda, West Bengal School Service Commission, West Bengal, India.
  13. Acted as the Subject Expert (Chemistry) & Central Nominee for Personality Test for 1<sup>st</sup> SLST (AT)-2016 for Classes IX-X, Northern Regional Office, Malda, West Bengal School Service Commission, West Bengal, India.
  14. Acted as the Convener of Birbhum Zone for B.Sc. SEM-I Honours Chemistry Practical Examination-2017, 2018 & 2019 under the University of Burdwan, West Bengal, India.
  15. Acted as the Convener of Birbhum Zone for B.Sc. SEM-II Honours Chemistry Practical Examination-2018 2019 & 2020 under the University of Burdwan, West Bengal, India.
  16. Acted as the Subject Expert (Chemistry) & Regional Nominee for Personality Test for 1<sup>st</sup> SLST (AT)-2016 for Upper Primary Level, West Bengal Central School Service Commission, West Bengal, India.
  17. Acted as the Moderator (Chemistry) for B.Sc. SEM-III General Examination-2018, 2019 & 2020 under the University of Burdwan, West Bengal, India.

## Research Activities (At a Glance)

### 1) Awarded Ph.D. degree:

- i) Title of the thesis: Isolation and Structural Elucidation of Some Natural O-Heterocycles.
- ii) Year of Degree: February 22, 2011



# PERSONAL PROFILE

2) **Research Experience:** 15 Yrs. (including Ph.D. Period 5 Yrs.)

3) **Publications (At a Glance):**

i) Research Paper Published (Peer Review Journal) : **42**

International Journal : 36

National Journal : 06

Communicated : 00

ii) Books : **01**

iii) Book Chapter (Edited Volume) : **08**

iv) Seminars/Conferences Proceeding Abstracts : **38**

International Seminar : 12

National Seminar : 22

State level Seminar : 04

v) Seminar/Conferences Attended : **31**

vi) Invited Talk : **09**

4) **Research Project (U.G.C.-Minor):** : **02**

5) **Reviewer/Journal Referee (National/  
International Journals/Books)** : **60**

6) **Editorship of Journal :**

i) **Member**, Editorial Advisory Board, *Glacier Journal for Scientific Research* (2016 – to date) (<http://www.glacierjournal.org/editorialboard.php>)

ii) **Member**, Editorial Advisory Board, *Journal of Modern Polymer Chemistry and Materials* (2021 – 2024) (<https://www.innovationforever.com/aboutjournal/JMPCM/EditorialBoardMembers>)

iii) **Member**, Editorial Advisory Board, *Science Journal of Chemistry* (2022 – 2026) (<http://www.journalchemistry.org/editorialboard>)

iv) **Member**, Frontiers Editorial Board, *Environmental Chemical Engineering* (2022 – to date) (<https://www.frontiersin.org/>)

# PERSONAL PROFILE

## 7) As Conference/Seminar Organizer (State/National/International):

- i) Organized as **Vice-President**, a Two-day International Seminar on “Recent Trends on Histro-Geographies Approaches of South-Asian Environment” held on 24<sup>th</sup> & 25<sup>th</sup> September 2015 at Saldiha College, Saldiha, Bankura, WB, India.
- ii) Organized as **Organising Secretary**, UGC Sponsored Two-day National Seminar on “Human Rights: Challenges and Responsibilities” held on 8<sup>th</sup> & 9<sup>th</sup> October 2015 at Saldiha College, Saldiha, Bankura, WB, India.
- iii) Organized as **Convener**, UGC Sponsored Two-day National Seminar on “Chemistry on Its Way: Impacts on the Environment” held on 1<sup>st</sup> & 2<sup>nd</sup> September 2016 at Saldiha College, Saldiha, Bankura, WB, India.
- iv) Organized as **Organising Secretary**, a one day workshop on “Relation Between Education and Administration” held on 8<sup>th</sup> April 2017 at Saldiha College, Saldiha, Bankura, WB, India.
- v) Organized as **Convener**, a one day Departmental Seminar on Chemistry” held on 6<sup>th</sup> September, 2017 at Krishna Chandra College, Hetampur, Birbhum, WB, India.
- vi) Organized as **Chairman**, a International Webinar on Recent Trends & Prospect of Chemistry” held on 5th July, 2020 at through Google Meet platform.

## Awards & Achievements

1. **Best Paper Presentation Award** in International Conference in **February 2014**, NMU, Jalgaon, Maharashtra, India.



2. Asia/Pacific Who's Who Listee in 2016
3. Famous India: Nation's Who's Who Listee in 2016
4. Learned India: Educationists Who's Who Listee in 2017
5. Biography India Listee in 2017



