



Dr. Arijit Das

CURRICULUM VITAE (CV)

DR. DAS ARIJIT

D.Sc. (Honoris Causa, Chemical Science)

M.Sc., Ph. D. (Inorganic Chemistry), Fellow (IASR, USA), MACS (INVITED, USA), SFICS, FIAFS, FISC (India), MInSc. (India)

Department of Chemistry, Bir Bikram Memorial College (BBMC) (NAAC Gr-B), Agartala, Tripura (W), Tripura, India, Pin: 799004

Email: arijitdas78chem@gmail.com

Website: www.arijitchemistryworld.com

'Father of Modern Chemical Education (Innovative Mnemonics)', IASR

Life Time Fellow, Directorate of Chemical Science, IASR, USA

INVITED MEMBER OF AMERICAN CHEMICAL SOCIETY (ACS, USA), (2013 -)

Formerly:

- 1. Head, Dept. of Chemistry, Ramthakur College, Agartala, Tripura(W), Tripura, India, Pin- 799003 – **For a period of more than 3 Years.****
- 2. Head, Dept. of Chemistry, Govt. Degree College, Dharmanagar, Tripura(N), Tripura, India – **For a period of more than 2 Years.****
- 3. Senior Scientific Officer (Chemical Discipline), Group A Gazetted, Tripura State Forensic Science Laboratory, Home Dept., Govt. of Tripura, Tripura, India – **For a period of 09 Months.****

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Personal Details:

Name: **DAS ARIJIT**

Date of Birth: 14th March 1978

Nationality: Indian

Gender: Male

Occupation: Assistant Professor (Chemistry)

Marital status: Married

Present residence: Dhaleswar Road 10, D. D. Road,
(Correspondence) Agartala, West Tripura, Tripura, India, Pin-799007
Mobile- 91-9862211165/ (0381)-2558989 (R)

Address: S/O Late Anil Ranjan Das, Retd. IS
(Permanent) Kacharghat, Kailashahar, Tripura(N),
Tripura, India, Pin-799277.
Phone:-(03824)(222715)/ 9862211165 (M)
E-mail: arijitdas78chem@gmail.com
URL: www.arijitchemistryworld.com
Orcid ID: <http://orcid.org/0000-0001-7409-7237>

Office: Department of Chemistry,
Bir Bikram Memorial College (BBMC)
College Street, Agartala, Tripura(W), Tripura, India
Tripura, India, Pin-799004

Languages: English, Hindi, Bengali

Summary of Educational Qualifications

Degree/Experience	Year	Institution	University	Duration
Post-Doctoral Research Experience (Inorganic Chemistry)	2008 –	1. Dept. Of Chemistry, T.U.,(2008-2009) 2. SFSL, Narsingarh, Agt. (2010) 3. Govt. Degree College, Dharmanagar, North Tripura(N). (2011-2013) 4. <u>'Synthetic Inorganic Research Lab.'</u>, Sponsored by DST, New Delhi, Govt. of India, at Ramthakur College, Agartala, West Tripura, Tripura, India. (2014 -)	1.Tripura University (A Central University) & 2.Under SERB, DST, New Delhi Govt. of India.	>06 Years
Ph.D. (Inorganic Chemistry)	2008	Dept. Of Chemistry, T.U., Tripura, India.	Tripura University	3Yrs 8 months
M.Sc. (Inorganic Chemistry)	2001	Dept. Of Chemistry, T.U., Tripura, India.	Tripura University	2Yrs.
B.Sc.(Hons in Chemistry)	1998	Dept. of Chemistry, R.K.M. College, Kailashahar, Tripura, India.	Tripura University	3Yrs.

Research Field and Research Project (Brief Story)

(Ph.D. & Research Experience)

1. **Date of Registration of Ph.D.** by Dept. of Chemistry, Tripura University: **27/08/2003**.

2. (a) Doctoral degree submitted : **28/05/2007**

31/03/2008 Tripura Central University

(b) Doctoral degree awarded: Year :..... University

Title of the Ph.D. Thesis:

“SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF MIXED LIGAND COMPLEXES OF SOME TRANSITION METAL IONS WITH NITROGEN AND SULPHUR DONORS.”

Supervisor: PROF.M.K.SINGH, DEPT. OF CHEMISTRY, TRIPURA UNIVERSITY.

3. RESEARCH FIELD INTEREST:

SYNTHETIC INORGANIC CHEMISTRY:

**i) Mixed ligand Complexes ii) 1,1-Dithiolates iii) Crystallography Study iv) DFT study v) TGA
vi) Luminescent properties vii) Electrical conductivity over a wide range of temperature
viii) Antibacterial and antifungal activity studies**

INNOVATION IN CHEMICAL EDUCATION:

i) Organic Chemistry ii) Inorganic Chemistry iii) Physical Chemistry

4. Research project (Completed / Ongoing):

SERB, DST, Govt. of India, New Delhi : (Ongoing)

2.Title of the project: “Transition Metal Complexes with Nitrogen & Sulphur donors - Synthesis, Crystal Structure, Luminescent Properties and Biological Activity Studies”.

Lab: ‘SERB-DST Research Lab’, Sponsored by SERB-DST, New Delhi, Govt. of India, at Bir Bikram Memorial College, Agartala, West Tripura, Tripura, India, PIN-799004.

Amount: Rs. 34,37,808/- (Rs. Thirty Four Lakh Thirty Seven Thousand Eight Hundred and Eight Only).

Duration: 03 yrs (March-2022 to March-2025).

Sanctioned No: EEQ/2021/000257 dated Feb 25, 2022.

Number of Project Associate: One (01), Name: Dr. Paresh Debnath, M.Sc., Ph.D., NET (Inorganic Chem.).

SERB, DST, Govt. of India, New Delhi : (Completed)

1. Title of the project: "Synthesis, Characterization, Luminescent Properties and Biological Activity Studies of mixed ligand complexes of some Transition Metal ions with Nitrogen and Sulphur Donors".

Lab: 'Synthetic Inorganic Research Lab.', Sponsored by DST, New Delhi, Govt. of India, at Ramthakur College, Agartala, West Tripura, Tripura, India, PIN-799003

Amount: Rs.12,00,000/- (Rupees twelve lakhs) .

Duration: 02 yrs (Dec-2013 to Dec-2015).

Sanctioned No: SB/EMEQ-014/2013 dated 28/11/2013

Number of Project Fellow: One (01), **Name:** Mr. Sanjit Sutradhar, M.Sc., NET (Inorganic Chem.). **Research Scholar without Fellowship:** Mr. Debabrata Chakraborty, M.Sc. (Inorganic Chem.)

Research Collaboration (Abroad):

In Abroad:

1. **Dr.R. Sanjeev**, Department of Pharmacy, School of Health Science, University of KwaZulu-Natal, Durban, **South Africa**.
2. **Prof. Adam A. Skelton**, Department of Pharmacy, School of Health Sciences, University of KwaZulu-Natal, Westville Campus, Durban, **South Africa**.
3. **Prof. Raymond J. Butcher**, Department of Inorganic and Structural Chemistry, **Howard University, Washington, DC, USA**.
4. **Prof. DELMAR S. LARSEN**, Department of Chemistry, **University of California**, One Shields Avenue Davis, CA 95616, Telephone: (530) 754-9075, FAX: (530) 752-8995.
5. **Prof.(Dr.) Edel Garcia**, (Ex-senior researcher at the Microsoft Innovation Center of Puerto Rico, USA) **Director & Founder of Minerazzi.com, USA**, <http://scribecontent.com/dr-edel-garcia/>.
6. **Prof. Antonio Frontera**, *Departament de Química, Universitat de les Illes Balears, Crta. de Valldemossa km 7.5, 07122 Palma de Mallorca (Balears), Spain*.
7. **Prof. Jerry P. Jasinski**, Department of Chemistry, Keene State College, Keene, NH 03435, **USA**.
8. **Prof. Constantin Gabriel Daniliuc**, Organisch-Chemisches Institut, Westfälische Wilhelms-Universität Münster, Corrensstraße 40, D-48149, **Germany**, Münster.
9. **Prof. Jan K. Zaręba**, Advanced Materials Engineering and Modelling Group, Wrocław University of Science and Technology, Wybrzeże Wyspiańskiego 27, 50-370 Wrocław, **Poland**.
10. **Prof. Antonio Bauzá**, Department de Química, Universitat de les Illes Balears, Crta. de Valldemossa km 7.5, 07122 Palma de Mallorca (Balears), **Spain**.

DESCRIPTION OF EXPERIENCES

Academic Experiences:

1. **Faculty of Chemistry** at Govt aid Entrance Institute 'SCHOOL OF SCIENCE', Agartala, Tripura, India, (Institute for IIT-JEE/AIEEE/CBSE-PMT/NDA/NERISTWBJEE/TBJEE) – For a period of **02 years 02 months** (w.e.f. 8.01.2001 to 27.03.2003).
2. **Post Graduate Teacher of Chemistry** of Manughat H. S. School, Govt. of Tripura, Tripura, India - for a period of **3 years 10 months** (w.e.f. 10-01-2006 to 12-11-2009).
3. **Former HOD cum Assistant Professor in Chemistry**, Govt. Degree College, Dharmanagar, Tripura(N), Tripura,India – for a period of more than 02 Years (w.e.f. 10-01-2011 to 03-10-2013).
4. **An External Examiner in B.Sc.(TDC -Pass) Part-I, Part-II & Part-III Practical Examination** at Ram Krishna Mahavidhyalay, Kailashahar on April 2011.
5. **Judge in the Sub-division Level Science Seminar-2011**, Dharmanagar, Tripura(N), organized by Dept. of Science & Technology, Tripura on 23-08-2011.
6. **An External Examiner in B.Sc.(TDC-Hons) Part-I, Part-II & Part-III Practical Examination** at Ram Krishna Mahavidhyalay, Kailashahar on April 2012.
7. **University Question Setter** since 2012.
8. **Organizer, several One-day Symposia in Chemistry and Theoretical Chemistry.**
9. **Principal Investigator of one SERB, DST, New Delhi - Sponsored projects.**
10. **Evaluator Co-ordinator, All Tripura info. Mega Quiz-2013, 2014, 2015 Venue-Rabindra Sata Barshiki Bhawan dated 8th July-2013, 7th Sept-2014, 20th Sept 2015.**
11. **Former HOD cum Assistant Professor . Department of Chemistry, Ramthakur College, Agartala, Tripura (W) w.e.f. 5th Oct-2013 to 12th June 2019 – For a period of 05 years 08 months.**
12. **Co-ordinator, Placement Cell, Ramthakur College, Agartala, West Tripura (2018-19).**
13. **Assistant Professor . Department of Chemistry, Bir Bikram Memorial College (BBMC), College Street, Agartala, Tripura (W) w.e.f. 13th June 2019 to Present.**
14. **Convener, Expert Committee, Integrated M.Sc. in Chemistry, M.B.B. University w.e.f. May 11, 2020 to till date.**
15. **Member, IQAC cell, Tripura University (A Central University), Suaryamaninagar, Tripura for two yrs w.e.f. May 2020 to May 2022.**
16. **Attended District Level Science Seminar-2022 as Judge**, organized by District Education Office, West District, Venue: DIET HALL, Kunjaban, **dated September 23, 2022**, Time: 11-4pm.

Administrative Experiences:-

1. Nodal Officer NIRF, Bir Bikram Memorial College, Agartala, Tripura, India (Dec 08, 2020 – present).
1. **Joint Secretary, Teacher's Council, Ramthakur College, Agartala, Tripura(W), India(July2014-)**
2. **Course Coordinator FOR PRE-RECRUITMENT COACHING FOR UN-EMPLOYED ST YOUTHS FOR VARIOUS COMPETITIVE EXAMINATIONS and JEEE UNDER SPECIAL PACKAGE FOR THE YEAR 2015-16 under ST Welfare department, Govt. of Tripura for the West District and Sipahijala District.**
3. **Head, Dept. of Chemistry**, Govt. Degree College, Dharmanagar, Tripura(N), Tripura,India – for a period of more than 01 Year (w.e.f. 23/08/2011 to till now).
4. **Senior Scientific Officer (Chemical Discipline)** Group A Gazetted, Tripura State Forensic Science Laboratory, Home Dept., Govt. of Tripura, Tripura, India – **For a period of 09 Months** (w.e.f. 26-04-2010 to 06-01-2011).

POST-DOCTORAL RESEARCH EXPERIENCE:- > 06 (Six) Years (since12-04-2008)

**ACADEMIC SEMINAR/ CONFERENCE/ WORKSHOP/ WEBINAR/ SCIENCE TALKS/
TRAINING (NATIONAL & INTERNATIONAL)**

1. National Symposium on “IMPACT OF CHEMISTRY ON LIFE AND SOCIETY”, organized by Dept. of Chemistry, Tripura University, Tripura, India, Oct. (1-3), 2004. (PP)
2. Teacher’s Training Programme Under SSA, organized by Education Dept, Govt. of Tripura, 17-01-06 to 27-01-06 -10 days.
3. Training on Examination of FICN organized by TSFSL, Govt. of Tripura, Tripura, w. e. f. 10-05-2010, – 27 days.
4. State Level Seminar on “Frontier Areas of Chemistry”, organized by Dept. of Chemistry, Tripura University, Tripura, India, 3rd Sept, 2010.
5. International Conference on Emerging Areas of Chemistry, organized by Dept. of Chemistry, Tripura University, Tripura, India, Jan (12-14), 2011. (PP)
6. One Day Awareness Programme On Chemical weapons Convention (CWC), 13th March-2011, organized by Dept. of Chemistry, Tripura University, Tripura, India.
7. Career Counselling Workshop, organized by UGC Cell, Govt. Degree College, Dharmanagar, Tripura North, Tripura, India, Feb (19-21), 2011.
8. Tripura Science Congress, organized by Tripura State Council For Science and Technology, Govt. of Tripura, Sept 8-9, 2011(OP).
9. 15th National Conference On Surfactants, Emulsions and Biocolloids, organized by Indian Society For Surface Science And Technology (ISSST), Kolkata-700 032 and Dept. of Chemistry, T.U., Tripura, Dec (27-29), 2011. (OP)
10. Invited Speaker at District Level Seminar, on the topic ‘Vivekananda and Recent India’ Town hall, Dharmanagar, organized by Dept. of Higher Education, Govt. of Tripura, 18th Aug-2012.
11. National Seminar on Green Chemistry and Nano science Theory and Applications, Organized by Dept. of Chemistry, NIT, Agartala and Dept. of Chemistry, MBB College, Agartala, Tripura, July (20-21)- 2012 (PP).
12. 50th Annual Convention of Chemists hosted by Department of Chemistry, Panjab University, Chandigarh – 160 014, held during December 04 – 07, 2013, Sponsored by Royal Society of Chemistry, Cambridge, UK, Reliance Industries Limited, Mumbai, Co-Sponsored by DST, New Delhi, CSIR, New Delhi and UGC, New Delhi and Organised by Indian Chemical Society, 92, Acharya Prafulla Chandra Road, Kolkata – 700 009.
13. Quality Enhancement in Higher Education in Northeast India: Challenges and Opportunities, National Seminar, 25th & 26th February 2017 organized by IQAC, Govt. Degree College, Dharmanagar, North Tripura sponsored by NAAC.
14. Science and Technology for National Development, National Seminar, 23rd March 2017, organized by Govt. Degree College, Dharmanagar, North Tripura in collaboration with ISCA, Kolkata Chapter.
15. National Seminar On Reaching the Unreached Through Science And Technology Sponsored by ISCA, Dated 10th and 11th April 2018, Govt. Degree College, Dharmanagar, Organized by the ISCA Dharmanagar Chapter & Govt. Degree College, Dharmanagar.
16. International Webinar on “Pedagogical Approaches to Combat Covid-19 Pandemic: Issues & Challenges”, Organized by Dept. of Chemistry, Govt. Degree College, Dharmanagar in association with NAAC, Govt. Degree College, Dharmanagar & IGNOU Study Centre (2602), Govt. Degree College, Dharmanagar, July 24 & 25, 2020.
17. One Week Online Workshop On ‘GOODS AND SERVICES TAX (GST)’, Organised by Ramthakur College, Agartala, Tripura, 22nd to 28th July 2020.
18. ACS Webinars on ‘Research Projects: Conceptualisation to Implementation’, Aug 4, 2020, organized by the American Chemical Society (ACS), US.
19. ACS Science Talks on ‘Investigating Phase Behavior of Suspensions of Nano-Discs Using Rheology’, 7 August 2020, organized by the American Chemical Society (ACS), US.
20. ACS Science Talks on ‘Exploring the Great Unknown: Characterization of Complex Environmental Mixtures’, Aug 12, 2020, organized by the American Chemical Society (ACS), US.
21. ACS Science Talks on ‘Organic Chemistry with Proteins Creating Opportunities in Biology and Medicine’, Aug 14, 2020, organized by the American Chemical Society (ACS), US.
22. ACS Science Talks on ‘I-III-VI2 Nanocrystals for Optoelectronic Devices’, Aug 21, 2020, organized by the American Chemical Society (ACS), US.
23. ACS Science Talks on ‘Molecular Engineering: Small Peptides Mimicking Proteins’, Aug 26, 2020, organized by the American Chemical Society (ACS), US.
24. ACS Science Talks on ‘Unravelling Tiny Monstrous Organic Aerosols: Key to Achieve Blue Skies and Human Health’, Aug 28, 2020, organized by the American Chemical Society (ACS), US.

25. [National Webinar](#), on ‘National Education Policy-2020’, Aug 20-21, 2020 organized by Bir Bikram Memorial College (BBMC), Agartala, Tripura, India.
26. [ACS Webinars](#) on ‘Adapting Well Known Chromatographic Techniques for the Analysis of Biomolecules’, September 01, 2020, organized by the American Chemical Society (ACS), US.
27. [ACS Science Talks](#) on ‘Reversible Chemical Tools to Capture Life in Action’, September 04, 2020, organized by the American Chemical Society (ACS), US.
28. [ACS India Virtual Classroom](#) on ‘Résumé Development: Marketing Your Brand for an Industrial Chemistry Position’, September 29, 2020, organized by the American Chemical Society (ACS), US.
29. ‘[Science Connect: Langmuir](#)’, 10-12 October 2020, organized by the American Chemical Society (ACS), US.
30. ‘[DST & ACS Virtual Workshop](#)’, 30 October 2020, organized by the Department of Science & Technology, Govt. of India and American Chemical Society (ACS), US.
31. [ACS Webinar](#) on ‘Managing the Life of an Early Career Researcher’, November 11, 2020, organized by the American Chemical Society (ACS), US.
32. [ACS Science Talks](#) on ‘Ultra-sensitive sensors that can operate in complex environments’, 4 November 2020, organized by the American Chemical Society (ACS), US.
33. [ACS Science Talks](#) on ‘Perceiving and delineating the epigenetic modifications by chromatin readers in human diseases’, 6 November 2020, organized by the American Chemical Society (ACS), US.
34. [ACS Science Talks](#) on ‘Topochemical Azide-Alkyne Cycloaddition (TAAC) reaction for the syntheses of biopolymer mimics’, 13 November 2020, organized by the American Chemical Society (ACS), US.
35. [ACS Science Talks](#) on ‘Oxidative damage in proteins’, 22 Jan 2021, organized by the American Chemical Society, US.
36. [ACS Science Talks](#) on ‘Covalent Organic Frameworks and the Morphology [0-1-2-3] Landscape’, 29 Jan 2021, organized by the American Chemical Society (ACS), US.
37. [ACS Science Talks](#) on ‘Multimetallic Nanocrystals by Design’, 19 Feb 2021, organized by the American Chemical Society, US.
38. [ACS Science Talks](#) on ‘Designing a Green Chemistry Future’, 26 March 2021, organized by the American Chemical Society (ACS), US.
39. [ACS Science Talks](#) on ‘Materials Innovation for Better Living’, 16 April 2021, organized by the American Chemical Society (ACS), US.
40. [ACS Science Talks](#) on ‘Dye-Sensitized Electron Transfer’, 23 April 2021, organized by the American Chemical Society (ACS), US.
41. [ACS Science Talks](#) on ‘Utilizing Light for Environmental Applications: Photo(electro)catalysis’, 28 May 2021, organized by the American Chemical Society (ACS), US.
42. [ACS \(American Chemical Society\) Science talk](#) in 2021 dated Aug 13, Sept 17, Oct 08, 2021.
43. [ACS \(American Chemical Society\) Seminar](#) dated Oct 18-19, 2021.
44. [ACS \(American Chemical Society\) Science talk](#) in 2022 dated Jan 28 and Sept 16 2022.

Training:

FACULTY DEVELOPMENT PROGRAM (FDP) / Workshop: i) **One Week (07 days) ‘Faculty Development Program’** on ‘Statistical Analysis in Academics and Research’, Organized by: International Journal of Microbial Science (IJMS) In Collaboration with: Sushila Shankarrao Gadhve Mahavidyalaya, Khandala, Dist-Satara, Mumbai, Nov 01-07, 2020. **Marks obtained: 70%.** ii) **Induction Training of Faculty Programme, under PMMMNMTT Scheme, MHRD, Govt. of India**, Date: 1-30 Nov 2017 – 30 days, Organizer: Faculty Development Centre (FDC), Tripura University, Tripura, India. **Grade Obtained: A⁺.** iii) **One Week Online Workshop On ‘GOODS AND SERVICES TAX (GST)’**, Organised by Ramthakur College, Agartala, Tripura, 22nd to 28th July 2020 iv) 5-day International workshop on ‘Academic Writing and Publishing’, Organized by the Central Library and Dept. of Library and Information Science, T.U dated Jan 17-21, 2022.

REFRESHER COURSE: i) **Two-week Refresher Course on “Rural Development, New Media and Social Change”**.Date: 14 days (01/07/2019 to 14/07/2019), Organizer: Faculty Development Centre (FDC), Tripura University, Tripura, India. **Grade Obtained: A** ii) **Two-week online Refresher Course on: “Teachers on Using ICT for Online Teaching Learning Process”**, Date: 14 days (01/12/2020 to 14/12/2020), Organizer: Faculty Development Centre (FDC), Tripura University, Tripura, India in collaboration with **MHRD, Govt. of India. Grade Obtained: A⁺.** iii) **Two-week offline Refresher Course on: “Making Teaching Effective”**, Duration: 14 days (15/03/2021 to 28/03/2021), Organizer: Faculty Development Centre (FDC), Tripura University, Tripura, India in collaboration with **MHRD, Govt. of India. Grade Obtained: A⁺.**

EDITOR/EDITORIAL ADVISORY BOARD MEMBER:

- i) 'Cambridge Scholars publishing', historic Lady Stephenson Library, Newcastle upon Tyne, United Kingdom. (Oct 2019 -)
- ii) 'WORLD JOURNAL OF CHEMICAL EDUCATION', Science and Education Pub., USA. (Dec 2013 -) (<http://www.sciepub.com/journal/WJCE/EditorialBoard>)
- iii) 'Indian Journal of Applied Research', UP (Sept. 2019 -) ([https://www.worldwidejournals.com/indian-journal-of-applied-research-\(IJAR\)/editorialboard.php](https://www.worldwidejournals.com/indian-journal-of-applied-research-(IJAR)/editorialboard.php))

REVIEWER:

1. 'INDIAN JOURNAL OF CHEMISTRY - SEC A', CSIR-NISCAIR, New Delhi, India (2020-)
2. "INORGANIC CHEMISTRY COMMUNICATIONS", ELSEVIER – 1st Reviewer
JOURNAL, USA, ISSN 1387-7003, Impact Factor 1.974 (2010), since 2010
3. "JOURNAL OF CO - ORDINATION CHEMISTRY " – TAYLOR & FRANCIS 1st Reviewer
4. 'Journal of Indian Chemical Society'- A.P.C., Road, Kolkata, India, since 2013.
5. 'QScience Connect', Qatar, Asia (Since-2013).
6. SAGE, Publication, 2022.

HONORARY DEGREE / FELLOWSHIP/MEMBERSHIP OF PROFESSIONAL BODIES:

1. Honorary Degree of Doctor of Science (D.Sc.) in Chemical Science, Division for Certification and Accreditation, International Agency for Standards and Ratings, US (Nov 8, 2019)
2. Fellow, Directorate of Chemical Science, IASR, USA (Life Time 2nd Oct 2018 -)
3. American Chemical Society (ACS) (Invited, USA) (06-12-2013-)
4. 'Indian Chemical Society', 92, A.P.C. Road, Kolkata-700009 – Senior Fellow / 7158 (2010 -).
5. 'Indian Academy of Forensic Science', 30, Gorachand Road, Kolkata-700014 – A-029 (Life Member) (2011-).
6. 'Indian Science Congress Association', 14, Dr. Biresch Guha Street, Kolkata – 700017, India - L18176 (2011-) (Life Member).
7. IQAC, Member, Tripura University, Agartala, Tripura, India (May 01, 2020-) (Link: <https://www.tripurauniv.ac.in/UploadFile/AdminPanel/IQAC/88f6c7bb-55ca-41d3-9c51-f152d61f67db.pdf>).
8. Professional Member of Institute of Scholars (InSc), Oct-2020, Institute of Scholars, Department of Awards, #1338, 2nd Cross, 7th Block Sir M V Layout, Muddhinapalya Bengaluru-560091, Karnataka, India, Email: awards@insc.in, Phone: +91-7619574868.

Articles Proposed on 21 Time Economic Innovative Teaching Methodologies and 40 new formulae in the Field of Chemical Education:

1. New Innovative Methods for prediction of hybridization State in a very short time.
2. New innovative methods for prediction of bond order of mono and atomic molecules, ions and also acid radicals in a very short time.
3. New innovative methods for determination of IUPAC nomenclature of spiro and bicyclo compounds in Organic Chemistry.
4. New innovative methods for determination of spin multiplicity, spin state and Magnetic properties of diatomic heteronuclear molecules or ions in a very short Interval of time.
5. New Innovative methods for prediction of Bond order of mono and diatomic molecules or ions having total number of (1-20)e⁻s in a very short time.
6. A rapid and innovative method for the identification of aromatic and anti-aromatic nature of organic compounds.
7. A rapid and innovative method for the easy prediction of Magnetic behavior of homo and hetero nuclear mono and diatomic molecules or ions without MOT.

8. Simultaneous Equations as a Tool in the Spectrophotometric Analysis of Two Non-interacting Substances in a Binary Mixture: Senior Undergraduate Physical and Physical-Organic Chemistry Laboratory Experiment.
9. New methods for prediction of Bond order of mono and diatomic homo and hetero nuclear molecules or ions with (1-20)e's and Oxide based acid radicals - An innovative approach (Review article)
10. New Methods for the prediction of Magnetic Moment of homo and hetero nuclear mono and diatomic molecules or ions without MOT-A Rapid Innovative Approach
11. Simple Thinking Makes Chemistry Metabolic and Interesting-A Review Article
12. Rapid calculation of the number of π -bonds, σ -bonds, single and double bonds in aliphatic unsaturated open chain and cyclic olefinic hydrocarbons.
13. Rapid calculation of the number of π -bonds, σ -bonds, single and double bonds in aliphatic unsaturated open chain and cyclic olefinic hydrocarbons.
14. Innovative and Time Economic Pedagogical Views In Chemical Education – A review Article.
15. Association Behavior of Mono, Di and Tri-hydric Alcohols with Three Carbon Skeleton in a Straight Chain
16. Time Economic Innovative Methodology on the Prediction of Hybridization State of Heterocyclic Compounds
17. Chemical Bonding: Time Economic Innovative Pedagogies - A Review Article
18. Lone Pair Electron Discriminate Hybridization with Aromatic and Anti Aromatic behavior of Heterocyclic Compounds - Innovative Mnemonics
19. Innovative Mnemonics in Chemical Education – A Review Article
20. Lone Pair of Electrons Discriminate Hybridization with Aromaticity in the Heterocyclic Compounds - Innovative Mnemonics
21. A Review of Time Economic Innovative Mnemonics in Chemical Education
22. Review of Innovative Mnemonics for Inorganic and Organic Chemical Education
23. Innovative Mnemonics in Chemical Education – Review Article
24. 'Teaching Science in 21st Century' – Review Article.
25. Predicting the hybridization state: a comparative study between conventional and innovative formulae.
26. IUPAC Nomenclature of Higher Alkanes – Innovative Mnemonics
27. Classification of Negative Charge Discriminate Hybridization with Aromatic and Anti-aromatic Behavior of Organic Compounds - Innovative Mnemonics

ENDORSEMENT BY DIFFERENT ACADEMICIANS FROM THE DIFFERENT INDIAN UNIVERSITIES AND I I T'S:

1. 'Jadavpur University', Kolkata, W.B., India. (FIVE STAR) 2. 'Calcutta University', Kolkata, W.B., India. (FIVE STAR) 3. 'Osmania University', Hyderabad. (FIVE STAR) 4. 'University of Hyderabad', Hyderabad (FIVE STAR) 5. 'North-Eastern Hill University (NEHU)', Shillong, Meghalaya, India. (FOUR STAR)
6. 'Kalyani University', West Bengal, India. (THREE STAR)
7. 'Burdwan University', Kolkata, W.B., India. (B⁺⁺) 8. 'Tripura Central University', Tripura, India (B)
9. 'I.I.T., Kanpur', India. (RANK-01) 10. 'I.I.T., Kharagpur', West Bengal, India (RANK-04)
11. 'I.I.T., Guwahati', Assam, India. (RANK-06)

APPROVED BY THE DIFFERENT INTERNATIONAL UNIVERSITIES AND UNITED STATES DEPARTMENT OF EDUCATION:

1. University of California, Davis, USA
2. Vinh University, Vietnam
3. Education Resources Information Center (ERIC), Institute of Education Sciences (IES), United States Department of Education.

Press Release (2012-2019)
(National Daily / News Web Portal)

SL. No.	National Daily / News Web Portal	Published Date	Publication Times
1.	'The Telegraph', Calcutta, India (National Daily)	2 nd September-2012, 6 th March-2013 8 th July-2013, 8 th December-2013 14 th February-2014, 3 rd September- 2015, 22 nd February-2016	07
2.	'The Times of India', Calcutta, India (National Daily)	29 th September-2012	01
3.	'United News of India' (UNI), India (National Web)	25 th September-2012 23 rd November-2019	02
4.	'Webindia123', India (National Web)	25 th September-2012	01
5.	'NorthEast Calling', India (National Web)	2 nd September-2015	01
G/T Publications in the English National Daily & News Web Portal: 12 times			

Press Release (2013-2018)
(International News Web Portal)

SL. No.	International News Web Portal	Published Date	Publication Times
1.	USA News Corp (International Web)	12 th November-2018	01
2.	'The Indian EYE. NET', USA (International Web)	21 st October-2015	01
3.	'IR Thoughts', USA (International Web)	18 th September-2015 20 th December-2018	02
4.	'World News.com', USA (International Web)	8 th December-2013 14 th February-2014 3 rd September-2015	03
G/T Publications in the International News Web Portal: 07 times			

Press Release (2012-2020)
(Bengali & English State Daily)

SL. No.	State Daily	Published Date	Publication Times
1.	'Dainik Sambad', Agartala, Tripura (State Bengali Daily)	6 th March-2012, 4 th September-2012, 1 st April-2013, 26 th December-2013, 22 nd August-2015, 19 th December-2015, 6 th April-2018, 9 th August-2018,	13

		14 th November-2018, 22 nd November-2018, 4 th September-2019, 9 th January-2020, 10 th August-2020.	
2.	'Ajker Fariad', Agartala, Tripura (State Bengali Daily)	4 th September-2012, 12 th September-2012, 6 th March-2013, 8 th July-2013 1 st September-2015, 17 th December-2015, 9 th August-2018, 14 th November-2018, 22 nd November-2018, 24 th September-2019, 28 th November-2019, 11 th August-2020.	12
3.	'Ajkal Tripura', Agartala, Tripura (State Bengali Daily)	15 th September-2012, 7 th October-2012 9 th March-2013, 21 st August-2015 17 th December-2015.	05
4.	'Tripura Times', Agartala, Tripura (State English Daily)	5 th October-2012, 25 th November-2018 26 th December-2018, 22 nd February-2019, 27 th July-2019, 20 th August-2019, 18 th September-2019, 23 rd October-2019, 23 rd November-2019, 8 th August-2020.	10
5.	'NE Colors', Agartala, Tripura (State English Daily)	8 th August-2018, 19 th August-2018, 30 th September-2018, 12 th November-2018, 21 st November-2018, 27 th December-2018, 22 nd February-2019, 27 th July-2019, 20 th August-2019, 22 nd September-2019, 23 rd November-2019, 28 th November-2019, 11 th August-2020, 18 th Dec 2020	14
6.	'SYANDAN', Agartala, Tripura (State Bengali Daily)	20 th March-2013, 18 th August-2018	02
7.	'ICAT- GOVT. OF TRIPURA', (State Govt. Daily)	4 th October-2012, 16 th December-2015	02
8.	'Tripura Today', Govt. of Tripura Eng. Newsletter, Tripura, India	August 2013, Vol-4, Issue-4	01
9.	'Tripura Prabaha', Kailashahar, Tripura. (State Bengali Weekly)	15 th September-2012	01
10.	'Daily Dasher Katha', Agartala, Tripura (State Beng. Daily)	3 rd September-2012, 6 th March-2013, 8 th July-2013, 23 rd July-2013, 23 rd August-2015, 25 th August-2015, 18 th December-2015	07
11.	'GENERAL KNOWLEDGE ESSENTIALS', blogspot.in	20 th March-2014	01
G/T Publications in the Bengali & English State Daily: 68 times			

Press Release (2012-2020)
(State News Web Portal)

SL. No.	State News Web Portal	Published Date	Publication Times
1.	'Tripurainfo.com', Agartala, Tripura (State News Web Portal)	4 th September-2012, 29 th September-2012, 8 th June-2013, 2 nd July-2013, 8 th July-2013, 20 th July-2013, 5 th August-2013, 8 th December-2013, 10 th December-2013, 21 st December-2013, 25 th December-2013,	50

		30 th January-2014, 14 th February-2014, 26 th February-2014, 23 rd July-2014, 31 st July-2014, 10 th June-2015, 31 st July-2015, 17 th August-2015, 25 th August-2015, 8 th September-2015, 14 th October-2015, 22 nd February-2016, 17 th October-2016, 20 th June-2017, 30 th August-2017, 20 th October-2017, 4 th April-2018, 8 th April-2018, 7 th August-2018, 13 th August-2018, 22 nd August-2018, 22 nd August-2018, 28 th September-2018, 9 th October-2018, 12 th November-2018, 20 th November-2018, 25 th December-2018, 21 st February-2019, 26 th July-2019, 19 th August-2019, 21 st August-2019, 17 th September-2019, 24 th October-2019, 12 th November-2019, 14 th November-2019, 23 rd November-2019, 6 th August-2020, 12 th Dec 2020, 14 th March 2021	
2.	'newsupdate of tripura.com' (State News Web Portal)	4 th April-2015, 31 st July-2015, 24 th August-2015, 3 rd September-2015, 8 th September-2015, 7 th October-2015, 16 th December-2015, 20 th June-2017, 17 th July-2017, 23 rd October-2017, 4 th April-2018, 8 th August-2018, 12 th November-2018, 21 st November-2018, 20 th August-2019, 22 nd September-2019, 26 th November-2019, 8 th August-2020, 13 th Dec 2020	19
G/T Publications in the State News Web Portal: 69 times			

Interview on Innovation at National / Local News Chanel, Tripura India With Date:

<u>Name of News Chanel</u>	<u>Date</u>
1. <u>'Prime Focus'</u> , Agartala, Tripura	05/11/2012
2. <u>'Head Lines Tripura'</u> , Agartala, Tripura	05/11/2012
3. <u>'Akashbani Kailashahar'</u> , Unakoti Tripura	08/11/2012
4. <u>'Tripura Today'</u> , A Govt. of Tripura News Letter, ICAT Dept., Agartala, Tripura.	20/08/2013
5. <u>Prasar Bharati (DDK), Agartala</u>	14/09/18
6. <u>International Agency for Standard and ratings (IASR)</u>	08/11/2019
7. <u>Wiki Bios, UK (from Wikipedia)</u>	04/04/2019
8. <u>Prasar Bharati (DDK), Agartala</u>	26 th Nov, 27 th Nov 20, Aug 25 22

AWARD RECEIVED (2021, 2020, 2019, 2018 & 2002):

1. Achieved InSc 'Research Excellence Award-2020', Oct-2020, **Institute of Scholars**, Department of Awards, #1338, 2nd Cross, 7th Block Sir M V Layout, Muddhinapalya Bengaluru-560091, Karnataka, India, Email: awards@insc.in, Phone: +91-7619574868.

2. Achieved 'Best Researcher Award' @ International Scientist Awards on Engineering, Science and Medicine, organized by the VDGOD Professional Association, India, 04th & 05th July 2020, Coimbatore, India.

3. Received Honorary Degree of Doctor of Science for Outstanding Scientific Contribution in Chemical Science from the Division for Certification and Accreditation, International Agency for Standards and Ratings (IASR), USA, Email: plojindexing@gmail.com dated Nov 8, 2019.

4. International Award received - World Championship-2018 in Chemical Education (Innovative Mnemonics). The World Championship is organized by International Agency for Standards and Ratings (IASR) at international level. World Champion Dr. Arijit Das is now recognized as 'Father of modern Chemical Education (Innovative Mnemonics)' and 'life time Fellow, Directorate of Chemical Science, IASR', USA.

5. Award received as 'PMLPMRF'- 1st Fellow from Tripura University, Tripura, India- Duration two(02) years (2002-2004).

Honor received from Different Departments and Societies For Invention of New dimensions in Chemistry:

1. Invitation received from the prestigious 'American Chemical Society'(ESTD-135 yrs ago) on 29-11-2013 via postal mail along with their nomination letter bearing Fellow nominated no FN-12047213025 and Candidate Promo Code 1513JA601 to join the ACS network as a member. I joined to the ACS network as ACS member since 06-12-2013.

2. Felicitated with 'Certificate of Honour' by Honble Chief Minister, Govt. of Tripura, Mr.Manik Sarkar on behalf of tripurainfo.com @ Agartala Town hall, Agartala, Tripura (w), Tripura, India, dated 7th July-2013.

3. Felicitated with 'Certificate of Honour' by Honble Higher Education Minister, Govt. of Tripura, Mr. Anil Sarkar @ Govt. Degree College, Dharmanagar, North Tripura, Tripura, India, dated 27th Sept-2012.

4. Felicitated with 'Certificate of Honour' by Department of Chemistry, Govt. Degree College, Dharmanagar, North Tripura, Tripura, India, dated 12-Sept 2012.

5. Felicitated by TCTA Unit Cell, Department of Chemistry, Govt. Degree College, Dharmanagar, North Tripura, Tripura, India dated 25-Sept 2012.

6. Felicitated with 'Certificate of Honour' by 'Saktisangha Club', Kailashahar, Unakoti, Tripura, in the Inauguration day of 50th Durga Puja dated 19th – Oct 2012.

7. Felicitated with 'Certificate of Honour' by 'Eikatan Club', Kailashahar, Unakoti, Tripura, in the Inauguration day of Kali Puja dated 12th – Nov 2012.

8. Honour received from the Ramthakur College (NAAC Gr.-B), Agartala, Tripura (West), Tripura, India on behalf of the Principal and other faculty members of the College on dated 01-01-2014 on the innovation of 14 New teaching methodologies including 34 completely new formulae in the Chemistry World and also on the Invitation along with nomination received from the Prestigious American Chemical Society, USA to join the impressive ACS network.

9. Felicitated with 'Certificate of Honour' Organized by Book Fair Committee, Kailashahar on 18-05-2018 for my 'Innovational Research in the Field of Chemistry' - Felicited by Mr.Nitish De , Convener,Book Fair Committee, Kailashahar – 2018.

10. Felicitated with 'Certificate of Honour' by the College of Astrology, Govt. of Tripura,
With the title of 'Jyotish Vigyani Bandhu' at Press Club Agartala dated 11th Aug 2018.
11. Felicitated with 'Certificate of Honour' in the 57th Teacher's day on dated 5th Sept 2018 at Press club, Agartala, Organized by the Lions Club Agartala, Rajdhani (Dist:322G).
12. Invited and Felicited as a Keynote speaker in the program of 'World Ozone Day-2018' organized by the Department of Science, Technology and Environment, Govt. Of Tripura dated 28th Sept 2018.
17. Received Felicitation from the National Figure Major General G.D.Bakshi, SM,VSM dated 8th Oct 2018 at Rabindra Bhavan, Agartala in the celebration of Platinum Jubilee of Azad Hind Government established by Netaji Subash Chandra Bose, organized by the 'Elite Society' Agartala, Tripura, India.
18. Invited and Felicited as a Keynote speaker in the program of 'Talk Show on Innovation in Chemical Education' dated 8th Nov 2018 organized by the Kailashahar Municipal Council and Education Department, Govt. of Tripura at Unakoti Kalakhestra, Kailashahar, Unakoti Tripura.
19. Felicited with 'Certificate of Honour' in the celebration of 'National Press Day-2018' dated 16th Nov 2018, Organized by the Tripura Journalist Union, Unakoti District Committee, at Unakoti Kalakhestra, Kailashahar, Unakoti Tripura.
20. International Agency For Standards and Ratings (IASR), certified me with the title 'Father of Modern Chemical Education (Innovative Mnemonics)' and 'Life Time Fellow of Directorate of Chemical Science, IASR ,USA' among 500 worldwide eminent scientists - 2018 and won the Award 'World Championship 2018 in Chemical Education (Innovative Mnemonics)' among World's 500 Most Influential Experts in Chemical Science for the Year 2018 on Earth dated 2nd Oct 2018.
21. Invitation as Committee Member in the 2nd International CMER Conference (Chemistry, Materials and Energy) held on Guangzhou, China, dated October 11-13, 2019 received from the committee of CMER 2019, China dated 23rd July 2019 and joined 26th July 2019 (Link: <https://www.keoaeic.org/CMER2019/committee>).
22. Dr. Das conferred Hony. D.Sc. in Chemical Science from International Agency for Standards and Ratings (IASR) on Nov 8, 2019.
23. Dr. Das invited and delivered his interactive speech (Duration 1Hr) on 'International Year of the Periodic Table (IYPT-2019)' at 47th State Level Science, Mathematics and Environment Exhibition 2019-20, Agartala, Tripura dated Dec 02, 2020, organized by the SCERT, Govt. of Tripura.
YouTube Link: <https://www.youtube.com/watch?v=pSsrODS63Ko>
24. Achieved 'Best Researcher Award' in the 'International Scientist Awards on Engineering, Science and Medicine', organized by the VDGOD Professional Association, India, 04th & 05th July 2020, Coimbatore, India.
25. Achieved InSc 'Research Excellence Award-2020', Oct-2020, Institute of Scholars, Department of Awards, #1338, 2nd Cross, 7th Block Sir M V Layout, Muddhinapalya Bengaluru-560091, Karnataka, India, Email: awards@insc.in, Phone: +91-7619574868.

Inauguration of Social Event: Inauguration of Kalipuja of Eikatan Club (A 100 years oldest Club) @ Kailashahar, Unakoti Tripura, on dated 12-Nov-2012.

LIST OF PUBLICATIONS (2002-):-

1. "Synthesis and characterization of ionic heterobimetallic complexes of Ni(II), Cu(II), Zn(II) and Cd(II) ions containing nitrogen and sulphur donors."
M.K.Singh, R.Laskar & A.Das, *Indian Journal of Chemistry*, 41A, Nov 2002, p 2282. (IF-0.67)
2. "Synthesis and structural characterization of mixed ligand complexes of nickel(II) with 1,1-dicyanoethylene-2,2-dithiolate and some nitrogen donors"
Mahesh K.Singh, Arijit Das and Bijaya Paul, *Trans. Metal Chem*, Sept 2005, 30, p 655. (IF-1.7)

3. "Synthesis and structural characterization of mixed ligand complexes of nickel(II) with 1-cyano-1-carboethoxyethylene-2,2-dithiolate and some nitrogen donors"
Mahesh K. Singh, Arijit Das and Bijaya Paul, *Trans Metal Chem*, Sept 2007, 32, p 732. (IF-1.997)
4. "Synthesis and characterization of mixed ligand complexes of Zn(II) and Cd(II) with 1,1-dicyanoethylene-2,2-dithiolate and some nitrogen donors"
M. K. Singh, A. Das, B. Paul and R. Laskar, *J. Ind. Chem. Soc.*, May 2008, 85, p 485. (IF-0.384)
5. "Synthesis and characterization of mixed ligand complexes of Zn(II) and Cd(II) with 1-cyano-1-carboethoxyethylene-2,2-dithiolate and some nitrogen donors"
M. K. Singh, A. Das, B. Paul and R. Laskar, *J. Ind. Chem. Soc.*, Feb 2009, 86, P-143.
6. "Synthesis and characterization of mixed ligand complexes of cobalt(II) ion with some nitrogen and sulphur donors"
Mahesh K. Singh, Arijit Das and Bijaya Paul, *Journal of Co-ordination Chemistry*, 62(16), Aug 2009, P-2745. (IF-1.932)
7. "New Methods For Determination of Hybridisation State For Organic and Inorganic Molecules or ions in a Very Short Time"
Arijit Das, *Chemistry Today*, May 2011, 20(5), p25, New Delhi, (ISBN-2468).
8. "Synthesis, characterization and Luminescent properties of mixed ligand complexes of nickel (II) with 1,1-dicarboethoxy ethylene-2,2-dithiolate and some nitrogen donors".
M.K. Singh, A. Das, B. Paul, S. Sutradhar and S. Bhattacharjee, *J. Ind. Chem. Soc.*, 89, March 2012, P-421.
9. "New Methods For IUPAC Nomenclature of Bicyclo and Spiro Compounds"
Arijit Das, *Chemistry Today*, April 2012, 21(4), p86-87, New Delhi, (ISBN -2468).
10. "Synthesis, Characterization, Luminescent properties and biological activity studies of mixed ligand complexes of nickel (II) with sulphur and some nitrogen donors"
Mahesh K Singh, Sanjit Sutradhar, Bijaya Paul, D. Barman and Arijit Das* *J. Ind. Chem. Soc.*, 90, Feb - 2013, p-163.
11. "New Methods for prediction of bond order of Molecules, ions and radicals without M.O.T. in a very short time"
Arijit Das and N. Nath, *Chemistry Today*, Feb 2013, 22(2), p13-15, New Delhi, (ISBN-2468).
12. "New Innovative Methods for prediction of hybridization State in a very short time"
Arijit Das, *Ind. Journal of Applied Research*, 3(7), p594, July-2013,
<https://doi.org/10.15373/2249555x/july2013/188> (Crossref Metadata) (IF-0.8215)
13. "New innovative methods for prediction of bond order of mono and diatomic molecules, ions and also acid radicals in a very short time"
Arijit Das, *Indian Journal of Applied Research*, 3(7), p114, July-2013,
<https://doi.org/10.15373/2249555x/july2013/30> (Crossref Metadata) (IF-0.8215)
14. "New innovative methods for determination of IUPAC nomenclature of spiro and bicyclo compounds in Organic Chemistry"
Arijit Das, *Indian Journal of Applied Research*, 3(7), p596, July-2013,
<https://doi.org/10.15373/2249555x/july2013/189> (Crossref Metadata) (IF-0.8215)
15. "New innovative methods for determination of spin multiplicity, spin state and Magnetic properties of diatomic heteronuclear molecules or ions in a very short Interval of time"

- [Arijit Das, *Indian Journal of Applied Research*, 3\(8\), p67, Aug-2013, <https://doi.org/10.15373/2249555x/aug2013/21> \(Crossref Metadata\) \(IF-0.8215\)](https://doi.org/10.15373/2249555x/aug2013/21)
16. "A rapid and innovative method for the identification of aromatic and anti-aromatic nature of organic compounds"
Arijit Das, Suman Adhikari, Bijaya Paul, V. Jagannadam and R.Sanjeev, *World Journal of Chemical Education*, 1(1), p6, Sept-2013, SEP, USA, DOI:10.12691/wjce-1-1-2
 17. "A rapid and innovative method for the easy prediction of Magnetic behavior of homo and hetero nuclear mono and diatomic molecules or ions without MOT"
Arijit Das, *Indian Journal of Applied Research*, 3(10), p1, Oct-2013, <https://doi.org/10.15373/2249555x/oct2013/13> (Crossref Metadata) (IF-0.8215)
 18. "New methods for prediction of Bond order of mono and diatomic homo and hetero Nuclear molecules or ions with (1-20)e⁻s and Oxide based acid radicals – An innovative approach"
Arijit Das, *Ind. J. of Applied Research*, 3(11), pp41-43 Nov-2013, (IF-0.8215)
 19. "Simple Thinking Makes Chemistry Metabolic and Interesting - A Review Article"
Arijit Das, *IOSR-Journal of Applied Chemistry (IOSR-JAC) TIE UP WITH NASA and ANED*, e-ISSN: 2278-5736. Volume 6, Issue 4 (Nov. – Dec. 2013), PP 08-15, DOI-10.9790/5736-0640815, USA.
 20. "Simultaneous Equations as a Tool in the Spectrophotometric Analysis of Two Non-interacting Substances in a Binary Mixture: Senior Undergraduate Physical and Physical-Organic Chemistry Laboratory Experiment"
R. Sanjeev, V. Jagannadham, R. Ravi, R. Veda Vrath, Arijit Das
Journal of Laboratory Chemical Education, 2013, 1(4),p59-64,SAP,,USA, DOI: 0.5923/j.jlce.20130104.01
 21. "New Methods for the prediction of Magnetic Moment of homo and hetero nuclear mono and diatomic molecules or ions without MOT-A Rapid Innovative Approach"
Arijit Das, *International Journal of Advance Research in Applied Chemistry*, SCI Pub.,01(10), Oct-2013, pp1-7, ISSN(online): 2320-9178, USA.
 22. "Rapid calculation of the number of π -bonds, σ -bonds, single and triple bonds in aliphatic unsaturated open chain and cycloalkynes"
Arijit Das, Suman Adhikari, Debapriya Paul, Bijaya Paul, V. Jagannadam and R.Sanjeev, *World Journal of Chemical Education*, 2014, 2(1),pp1-3, SEP, USA, DOI:10.12691/wjce-2-1-1
 23. "Supramolecular Chemistry and its application" (Review Article)
Suman Adhikari, Arijit Das & Basu Maan Daas, Prayas, *Journal of Multidisciplinary Area*, Vol-01(01), pp 72-78, Feb-2014 Online ISSN 2348-618X.
 24. "Rapid calculation of the number of π -bonds, σ -bonds, single and double bonds in aliphatic unsaturated open chain and cyclic olefinic hydrocarbons"
Arijit Das, Debapriya Pal, Bijaya Paul, R. Sanjeev and V. Jagannadham, *Education in Chemical Science and Technology*, published by *Ind. Chem. Soc.*, Aug-2014, 2(1), pp 41-46
 25. "Synthesis and Characterization of mixed ligand complexes of Co(II) ion with some N and S donor" Mahesh K. Singh*, Ranajoy Laskar, Sanjit Sutradhar, Bijaya Paul, S.Bhattacharjee and Arijit Das*, *IOSR Journal of Applied Chemistry (IOSR-JAC) e-ISSN: 2278-5736. Volume 7, Issue 4 (1), (Apr. 2014), PP 24-29*, DOI: 10.9790/5736-07412429, ANED DDL(American National Engineering Database Digital Data link) no: 23.5736/iosr-jac-E07412429
 26. "Innovative And Time Economic Pedagogical Views In Chemical Education - A Review Article"
Arijit Das, R.Sanjeev and V.Jagannadham, *World Journal of Chemical Education*, 2014, Vol. 2, No. 3, 29-38, Science and Education Publishing , USA, DOI:10.12691/wjce-2-3-1.
 27. "Association Behavior of Mono, Di and Tri-hydric Alcohols with Three Carbon

Skeleton in a Straight Chain”

R. Sanjeev, V. Jagannadham, Adam A. Skelton, Arijit Das, *World Journal of Chemical Education*, 2014, Vol. 2, No. 3, 39-41, Science and Education Publishing, USA,
DOI:10.12691/wjce-2-3-2.

28. “Time Economic Innovative Methodology on the Prediction of Hybridization State of Heterocyclic Compounds”
Arijit Das, Bijaya Paul, R.Sanjeev and V.Jagannadham
IOSR Journal of Applied Chemistry (IOSR-JAC) e-ISSN: 2278-5736. Volume 7, Issue 8 (2), (Aug-2014), PP 38-39, DOI: 10.9790/5736-07412429,
29. “Synthesis, Crystal Structure And Antifungal Activity Studies of a Newly Synthesized Polymeric Mixed Ligand Complex of Zn (II) With 1,1-dithiolate and Nitrogen donors”
Mahesh Kumar Singh, Sanjit Sutradhar, Bijaya Paul, Suman Adhikari, Raymond J. Butcher, Sandeep Acharya and Arijit Das*
J.of Co-ordination Chemistry, Taylor & Francis Pub.(London), Vol.67, No.22, 3613–3620, 2014
<http://dx.doi.org/10.1080/00958972.2014.972388> (IF-2.223)
30. Cd(II) complexation With 1,1-dithiolate and Nitrogen donors: Synthesis, Luminescence, Crystal Structure And Antifungal Activity Study
Mahesh Kumar Singh, Sanjit Sutradhar, Bijaya Paul, Suman Adhikari, Raymond J. Butcher, Sandeep Acharya and Arijit Das*
J.of Co-ordination Chemistry, 2015, Vol. 68, No. 8, 1423–1432, *Taylor & Francis Pub.(London)*
<http://dx.doi.org/10.1080/00958972.2015.1013946>
31. Time Economic Innovative Pedagogies In Chemical Science - A Review Article
Arijit Das* and Bijaya Paul, *Education in Chemical Science and Technology, Ind.Chem.Soc., Vol-3, No.1, PP 1-28, Aug-2015.*
32. ‘HYDROCARBONS PARSER TOOL’ Arijit Das, Edel Garcia, A.I.Malah and K.I.Quach, Minerazzi.Com, USA, 24 Aug 2015. <http://www.minerazzi.com/tools/hydrocarbons/parser.php>
33. Six-coordinate cadmium (II) complex containing a bridging dithiolate ligand: Synthesis, Crystal Structure and Antifungal Activity Study
Mahesh Kumar Singh, Sanjit Sutradhar, Bijaya Paul, Suman Adhikari, Raymond J. Butcher, Sandeep Acharya and Arijit Das*
J.of Co-ordination Chemistry, Taylor & Francis Pub.(London), UK (online published 3rd Nov-2015)
Volume 69, Issue 1, January 2016, pages 168-175.
34. Synthesis and Structural Characterization of Mixed Ligand Complexes of Manganese (II) With Some Nitrogen and Sulphur Donors by Magnetic and Spectroscopic Methods
M.K.Singh, Bijaya Paul , Arijit Das, *IOSR-JAC*, 9, 2(1), p42-48, Feb-2016
35. Manganese(II) Complexation with 1,1-dithiolate and Nitrogen donors – Synthesis, magnetic properties and spectroscopic studies
Mahesh K. Singh, Bijaya Paul and Arijit Das, *IOSR-JAC*, Vol 9, Issue 11(11), p1-7 Nov-2016
36. Synthesis, TGA, Luminescent and Antifungal Activity Studies of Nickel (II) Complexes of 1,1-dithiolate - Mahesh K. Singh, Sanjit Sutradhar, Arijit Das and Sandeep Acharya, *Asian J. of Chemistry*, Vol 29, No 5, 1023-1028, 2017
37. A new Cadmium(II) complex with bridging dithiolate ligand: synthesis, crystal structure and antifungal activity study
Mahesh Kumar Singh, Sanjit Sutradhar, Bijaya Paul, Suman Adhikari, F.Laskar, Raymond J. Butcher, Sandeep Acharya and Arijit Das*, *Journal of Molecular Structure, Elsevier Pub., Vol 1139, 5 July 2017, Pages 395–399, https://doi.org/10.1016/j.molstruc.2017.03.073.*
38. Synthesis and Structural characterization of mixed ligand complexes of nickel(II) with 1, 8-diaminonaphthalene and 1-cyano-1-carboethoxyethylene-2,2-dithiolate
M. K.Singh, Sanjit Sutradhar and Arijit Das, *J. of the Indian Chem. Soc.*, pp 497-502, May 2017.
39. Bond-order and Magnetic Behavior of Diatomic Species without Molecular Orbital Theory Arijit Das, *World Journal of Chemical Education*, Book Chapter, vol. 5, no. 4, 19th

- June 2017, pp 128-131, doi:10.12691/wjce-5-4-2.
40. Chemical Bonding: Time Economic Innovative Pedagogies - A Review Article
Arijit Das, *Global Journal of Science Frontier Research Chemistry (GJSFR B)*, Vol 17, Issue 2 (1), 28th Nov 2017, pp 1-16, doi:10.17406/GJSFR
 41. Mixed-ligand complexes of zinc(II) with 1,1-dicyanoethylene-2,2-dithiolate and N-donor ligands: A combined experimental and theoretical study
Arijit Das *et al.* *Journal of Molecular Structure*, Elsevier, 1164, July 2018, pp 334-343, <https://doi.org/10.1016/j.molstruc.2018.03.073>.
 42. Time Economic Innovative Mnemonics In Chemical Education - A Review Article
Arijit Das, *International Journal of Physics & Chemistry Education (Eurasian Journal of Physics and Chemistry Education - EJPCE)*, 10(1), June 2018, pp 27-40, (<https://doi.org/10.12973/ijpce/81589>)
 43. Lone Pair Electron Discriminate Hybridization with Aromatic and Anti Aromatic behavior of Heterocyclic Compounds - Innovative Mnemonics
Arijit Das, *World Journal of Chemical Education*, vol. 6, no. 2, 4th April 2018, pp95-101, DOI: 10.12691/wjce-6-2-4.
 44. Time Economic Innovative Mnemonics in Chemical Education - A Review Article
Arijit Das, *American Journal of Chemistry and Applications, Open science*, 5(1), pp 19-32, 2018.
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EDUCATIONAL SOFTWARE TOOL LAUNCHED IN USA

1.HYDROCARBONS PARSER TOOL LAUNCHED IN THE USA:

On 24th Aug-2015 a new and practical applications of my 14 new formulae and 04 innovative teaching time-economic methodologies on 'Number of Chemical bonds in Hydrocarbon' came in the form of a tool namely 'Hydrocarbon Parser' made by Dr.Edel Garcia, a multidisciplinary scientist and Administrator of Minerazzi.com, Bayamon, Puerto Rico, USA to calculate and discriminate of chemical bonds in hydrocarbons. Dr.Garcia the creator of the Minerazzi Project, which started at the now defunct local Microsoft Innovation Center. Minerazzi (<http://www.minerazzi.com>) is a platform owned by Dr.Garcia and for building topic-specific search engines on any field or knowledge domain in USA.

This tool parses an input chemical formula and predicts the number and types of chemical bonds present in them with its normal boiling point and few other things. The predicted data can then be comparing with experimental results.The tool works without consulting molecular orbital theory (MOT) or a chemical database. Just enter a set of formulae 'CxHy'.

'Hydrocarbons Parser' tool freely accessible online in the Tools section of Minerazzi at <http://www.minerazzi.com/tools/hydrocarbons/parser.php>.

2.Bond Order Calculator TOOL LAUNCHED IN THE USA:

On 20th Dec-2018, a new and practical applications of my 04 invented formulae and 01 innovative teaching time-economic methodologies on 'Calculation of Bond Order without Molecular orbital theory (MOT)' came in the form of a tool namely 'Bond Order Calculator' made by Dr.Edel Garcia, a multidisciplinary scientist and Administrator of Minerazzi.com, Bayamon, Puerto Rico, USA to calculate and discriminate of chemical bonds in hydrocarbons. Dr.Garcia the creator of the Minerazzi Project, which started at the now defunct local Microsoft Innovation Center. Minerazzi (<http://www.minerazzi.com>) is a platform owned by Dr.Garcia and for building topic-specific search engines on any field or knowledge domain in USA.

This tool computes bond orders of diatomic species having up to 20 electrons, without using Molecular Orbital Theory. This software tool is useful for chemistry educators, scholars, and students interested in bond order theory and its applications.'Bond Order Calculator' tool freely accessible online in the Tools section of Minerazzi at <http://www.minerazzi.com/tools/bond-order/calculator.php>.

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Copyright Registration Certificate from the Copyright office, Govt. of India, New Delhi:

On 7th Aug 2018 and 13th Nov 2019, Copyright office, Govt. of India, New Delhi gave me two copyright registration for my outstanding innovational research work in field of Chemical Education on my all invented 32 formulae bearing Registration number L-77140/2018 and L-86934/2019 respectively.

 <p>Copyright Office Government of India</p>	 <p>सत्यमेव जयते</p>	<p>Extracts from the Register of Copyrights</p>
		Dated : 07/08/2018
1. Registration Number	:	L-77140/2018
2. Name, address and nationality of the applicant	:	DR ARIJIT DAS , ASSISTANT PROFESSOR, DEPT OF CHEMISTRY, RAMTHAKUR COLLEGE, AGARTALA, TRIPURA-799003INDIAN
3. Nature of the applicant's interest in the copyright of the work	:	OWNER
4. Class and description of the work	:	LITERARY/ DRAMATIC WORK
5. Title of the work	:	INNOVATION OF PEDAGOGIES IN THE FIELD OF CHEMICAL EDUCATION
6. Language of the work	:	ENGLISH
7. Name, address and nationality of the author and if the author is deceased, date of his decease	:	DR ARIJIT DAS , ASSISTANT PROFESSOR, DEPT OF CHEMISTRY, RAMTHAKUR COLLEGE, AGARTALA, TRIPURA-799003INDIAN
8. Whether the work is published or unpublished	:	PUBLISHED
9. Year and country of first publication and name, address and nationality of the publisher	:	2013 USASCIENCE AND EDUCATION PUBLISHING - WORLD JOURNAL OF CHEMICAL EDUCATION , SCIENCE AND EDUCATION PUBLISHING ADDRESS: 10 CHESWOLD BLVD., 1D, NEWARK, DE, 19713, UNITED STATES.- 19713USA
10. Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers	:	2014 USASCIENCE AND EDUCATION PUBLISHING - WORLD JOURNAL OF CHEMICAL EDUCATION , SCIENCE AND EDUCATION PUBLISHING ADDRESS: 10 CHESWOLD BLVD., 1D, NEWARK, DE, 19713, UNITED STATES.- 19713USA 2015 INDIAN INTERNATIONAL ORGANIZATION OF SCIENTIFIC RESEARCH- IOSR. JAC , OSR. JOURNALS DANSA, GHAZIABAD, UP. PIN: 201015, INDIA-201015INDIAN 2017 USAGLOBAL JOURNALS INC. - GLOBAL JOURNAL OF SCIENCE FRONTIER RESEARCH B CHEMISTRY , GLOBAL JOURNALS™ HEADQUARTERS 945TH CONCORD STREETS FRAMINGHAM MASSACHUSETTS PIN: 01701 UNITED STATES OF AMERICA-1701USA 2015 INDIAN CHEMICAL SOCIETY , 92, ACHARYA PRAFULLA CHANDRA ROAD, KOLKATA-700 009, WEST BENGAL, INDIA-700009INDIAN
11. Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any	:	DR ARIJIT DAS , ASSISTANT PROFESSOR, DEPT OF CHEMISTRY, RAMTHAKUR COLLEGE, AGARTALA, TRIPURA-799003INDIAN
12. Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright	:	N.A.
13. If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).	:	N.A.
14. If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details.	:	N.A.
15. If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000 whether it has been applied to an industrial process and ,if yes ,the number of times	:	N.A.
16. 	:	17436/2017-COL 06/12/2017 Date 06/12/2017
		 DEPUTY REGISTRAR OF COPYRIGHTS

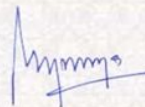


Dated : 13/11/2019

- | | | |
|--|---|--|
| 1. Registration Number | : | L-86934/2019 |
| 2. Name, address and nationality of the applicant | : | DR ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR
BIKRAM MEMORIAL COLLEGE (BBMC),
AGARTALA, TRIPURA (W), TRIPURA, INDIA. PIN: 799004
-799004
INDIAN |
| 3. Nature of the applicant's interest in the copyright of the work | : | OWNER |
| 4. Class and description of the work | : | LITERARY/ DRAMATIC WORK |
| 5. Title of the work | : | LONE PAIR ELECTRON DISCRIMINATE HYBRIDIZATION
WITH AROMATIC AND ANTI AROMATIC BEHAVIOR OF
HETEROCYCLIC COMPOUNDS - INNOVATIVE
MNEMONICS |
| 6. Language of the work | : | ENGLISH |
| 7. Name, address and nationality of the author and if the author is deceased, date of his decease | : | DR ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR
BIKRAM MEMORIAL COLLEGE (BBMC),
AGARTALA, TRIPURA (W), TRIPURA, INDIA. PIN: 799004
-799004
INDIAN |
| 8. Whether the work is published or unpublished | : | PUBLISHED |
| 9. Year and country of first publication and name, address and nationality of the publisher | : | 2018 USA
WORLD JOURNAL OF CHEMICAL EDUCATION , SCIENCE
AND EDUCATION PUBLISHING, 10 CHESWOLD BLVD.,
NEWARK, DE, UNITED STATES.-
US |
| 10. Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers | : | 2018 USA
WORLD JOURNAL OF CHEMICAL EDUCATION , SCIENCE
AND EDUCATION PUBLISHING, 10 CHESWOLD BLVD.,
NEWARK, DE, UNITED STATES.-
US |
| 11. Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any | : | DR ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR
BIKRAM MEMORIAL COLLEGE (BBMC),
AGARTALA, TRIPURA (W), TRIPURA, INDIA. PIN: 799004
-799004
INDIAN |
| 12. Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright | : | N.A. |
| 13. If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown). | : | N.A. |
| 14. If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (i) of Section 45 of the Copyright Act, 1957. | : | N.A. |
| 15. If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details. | : | N.A. |
| 16. If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000 whether it has been applied to an article or to a process, if yes, the number of times it has been applied to an industrial process and, if yes, the number of times it has been applied to an industrial process. | : | N.A. |



12880/2019-CO/L
13/08/2019
13/08/2019



DEPUTY REGISTRAR OF COPYRIGHTS

World Championship-2018 in Chemical Education (Innovative Mnemonics):

International Media: USA News CORP Published NEWS -

[Link: USA NEWS CORP Dr. Arijit Das from India wins World Championship - 2018 in Chemical Education \(Innovative Mnemonics\) out of 86 countries](#)

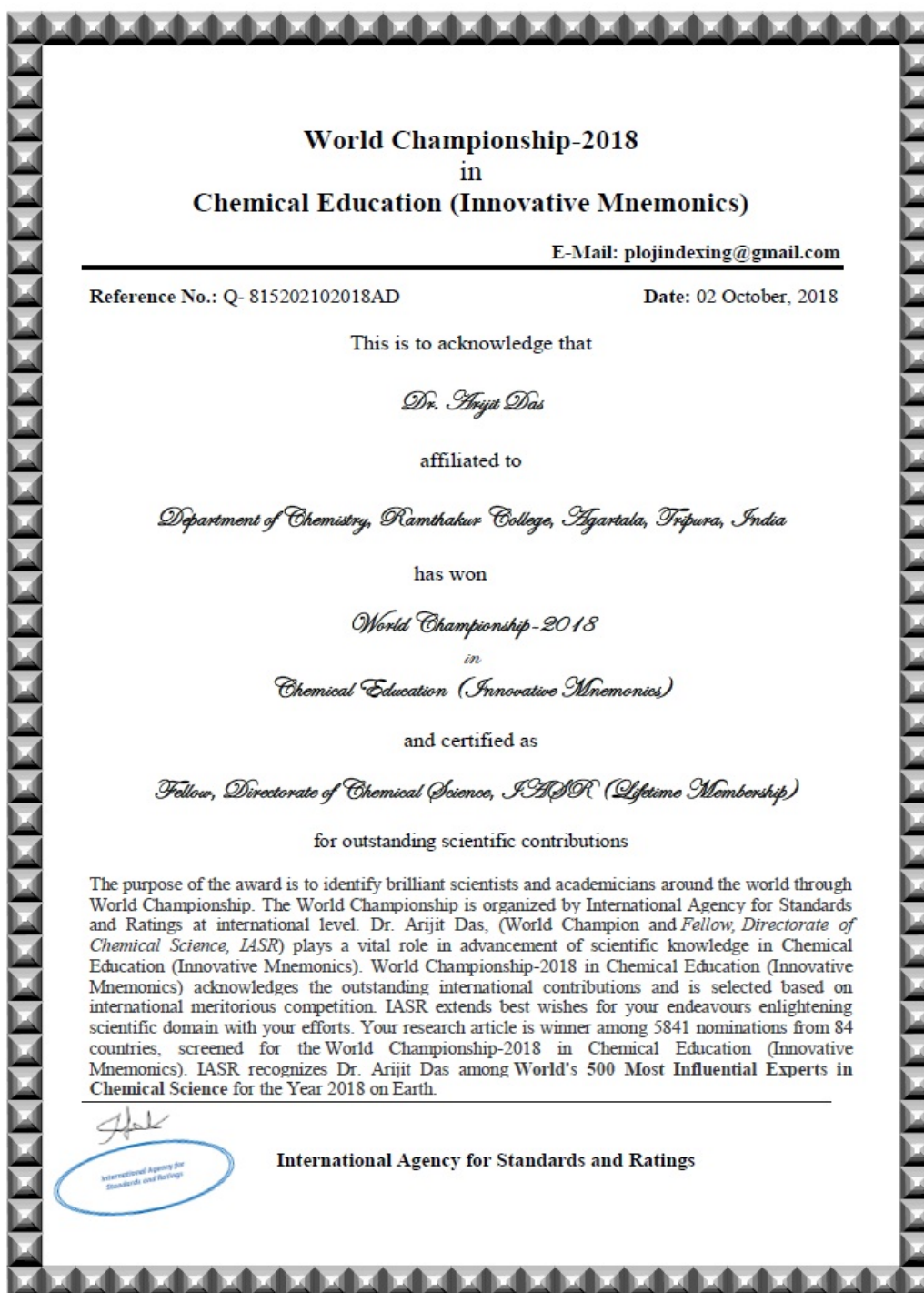
World Champion Dr. Arijit Das is most important asset for India in Chemical Education (Innovative Mnemonics) India in Chemical Education (Innovative Mnemonics), recognized by International Agency for Standards and Ratings. World Champion Dr. Arijit Das is now recognized as Father of modern Chemical Education (Innovative Mnemonics).

The purpose of the award is to identify brilliant scientists and academicians around the world through World Championship. **The World Championship is organized by International Agency for Standards and Ratings at international level. Dr. Arijit Das, (World Champion and Fellow, Directorate of Chemical Science, IASR) plays a vital role in advancement of scientific knowledge in Chemical Education (Innovative Mnemonics).**

World Championship-2018 in Chemical Education (Innovative Mnemonics) acknowledges the outstanding international contributions and is selected based on international meritorious competition. IASR extends best wishes for your endeavours enlightening scientific domain with your efforts. Your research article is winner among 5841 nominations from 84 countries, screened for the World Championship-2018 in Chemical Education (Innovative Mnemonics). IASR recognizes Dr. Arijit Das among World's 500 Most Influential Experts in Chemical Science for the Year 2018 on Earth.

World champion Dr. Arijit Das endorses scientific meetings and conferences on Chemical Education (Innovative Mnemonics), and can be contacted for key note speeches on Chemical Education (Innovative Mnemonics) and industrial collaborations. The World Championship is organized by International Agency for Standards and Ratings at international level. **Universities are in a race to reconstruct their syllabus by adding applications of scientific contribution by World champion- Dr. Arijit Das.** Under expert guidance of World champion Dr. Arijit Das, Universities can now contribute better in nation building. Proper supervision by World champion Dr. Arijit Das will help to allocate public funds and research grants more focused. **Universities**

can contact world champion Dr. Arijit Das for selection committees/ board on promotion and recruitment. The world champion Dr. Arijit Das can be contacted for execution of programs related to Chemical Education (Innovative Mnemonics). Researchers and students can enjoy expert career guidance on latest trends, jobs and career opportunities from world champion Dr. Arijit Das.



Appreciation Letters received through email from the different scientific societies and from the different eminent fellow of IIT's and four (04) different Abroad & Indian Universities after achieved the Copyright registration Certificate from the Govt.of India through innovational research in the field of Chemical Education

Appreciation Letter Received from the American Chemical Society, NY, USA:

8/15/2018

Gmail - Re: Cordial request to send your most valuable feedback on getting my Copyright registration certificate from the Govt. of India {1...



DR ARIJIT DAS <arijitdas78chem@gmail.com>

Re: Cordial request to send your most valuable feedback on getting my Copyright registration certificate from the Govt. of India {1182158}

ACS MemberServices <service@acs.org>
To: arijitdas78chem@gmail.com

Tue, Aug 14, 2018 at 7:39 PM

Dear Dr. Das,

Congratulations on attaining your copyright registration. Thank you for notifying us of your accomplishment.

We appreciate your service to the society and the importance of your copyright to the benefit of the chemistry enterprise and its practitioners. We believe that members play a vital role in fulfilling the society's mission of improving people's lives through the transforming power of chemistry. You have certainly contributed to that mission.

We wish you continued success and look forward to your future contributions.

Best regards,

Michael Fry
American Chemical Society
Member Services
service@acs.org
phone:1-800-333-9511
fax: 1-614-447-3671

From the Vinh University, Ministry of Education and Training, Vinh City, Vietnam:

**Ministry of Education and Training
Vinh University
School of Natural Science
Department of Teaching Methods of Chemistry
182 - Le Duan Street, Vinh City, Vietnam**



**Assoc. Prof., Cao Cu Giac, PhD.
giacc@vinhuni.edu.vn
Head of Department of Teaching Methods of Chemistry
Chief Guest Editor of the Special Issue:
Teaching Science in the 21st Century
World Journal of Chemical Education (WJCE), USA
<http://www.sciepub.com/journal/wjce>**

August 20, 2018

Dear Dr., Arijit Das,
Assistant Professor,
Deptt. of Chemistry,
Ramthakur College, Agartala, Tripura(W),
Tripura, India, Pin-799003.

We are very pleased to inform you that your article was published by the WJCE in a special issue titled "Teaching Science in the 21st Century." Your contributions in the article have greatly boosted the teaching of chemistry. We hope you will have more research in the near future, contributing to the development of the journal.

Best regards,



Cao Cu Giac

From the Indian Chemical Society (ICS):

22/08/2018 Cordial request to send your most valuable feedback on getting my Copyright registration certificate from the Govt. of India - arijitdas78c...



INDIAN CHEMICAL SOCIETY

to me

Aug 21 (1 day ago)

Dr.Arijit Das, Ph.D.(Inorganic Chemistry)
MACS (Invited,USA), FICS, FISC, FIAFS (India)
Assistant Professor,
Deptt.of Chemistry,
Ramthakur College, Agartala, Tripura(W),
Tripura, India, Pin-799003

Dear Professor Das,

This is indeed a matter of pride and privilege to acknowledge that you, Dr. Arijit Das being a member (F/ 7158) of the Indian Chemical Society has achieved such an honour of having the **Ownership from the copyright office, Govt. of India, New Delhi**. I, on behalf of the Indian Chemical Society wish you all successes in future in order to uphold the name and fame of the Indian Chemical Society.

Dr. Rahul Bhattacharya
Executive Officer
Indian Chemical Society

From the Indian Science Congress Association (ISCA):

8/16/2018

Gmail - Cordial request to send your most valuable feedback on getting my Copyright registration certificate from the Govt. of India



DR ARIJIT DAS <arijitdas78chem@gmail.com>

Cordial request to send your most valuable feedback on getting my Copyright registration certificate from the Govt. of India

Dr. P.P. Mathur <ppmathur@hotmail.com>
To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

Wed, Aug 15, 2018 at 11:36 PM

Dear Dr. Das:

Hearty Congratulations. I hope you will be doing more innovations.

Regards,

Sincerely,

PP Mathur

Prof. Premendu P. Mathur
General Secretary, ISCA,
(Scientific Activities)
(Professor & Head, Department of Biochemistry & Molecular Biology)
School of Life Sciences, Pondicherry University,
Kalapet, Puducherry - 605 014

From School of Chemistry, University of Hyderabad:

8/13/2018

Gmail - Response from Samar K. Das: Request to send your most valuable feedback on getting my Copyright registration certificate from...



DR ARIJIT DAS <arijitdas78chem@gmail.com>

Response from Samar K. Das: Request to send your most valuable feedback on getting my Copyright registration certificate from the Govt. of India

samar das <samar439@gmail.com>

Sun, Aug 12, 2018 at 12:22 PM

To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

To:

Dr.Arijit Das, Ph.D.(Inorganic Chemistry)
MACS (Invited,USA), FICS, FISC, FIAFS (India)
Assistant Professor,
Deptt.of Chemistry,
Ramthakur College, Agartala, Tripura(W),
Tripura, India, Pin-799003.

Dear Arijit:

I must begin with my heartiest congratulations to you, on achieving ownership from the copyright office, Govt. of India, New Delhi bearing registration number L-77140/2018 for your 19 innovative teaching methodologies and 39 invented formulas in Chemistry under the title "INNOVATION OF PEDAGOGIES IN THE FILED OF CHEMICAL EDUCATION".

I feel that it is a great achievement! Keep it up. I wish that you get a regular faculty position (associate professor) at Tripura University.

Congratulations again.

All the best.

With best wishes,

Sir

Professor Samar K. Das, FASc.
School of Chemistry
University of Hyderabad
Hyderabad - 500046
India

Phone:

Cell: (0)9959425259

+91-40-2313-4853 (work)

+91-40-2301-0536 (residence)

From IIT Kanpur:

8/13/2018

Gmail - Copyright Registration Certificate of Dr Arijit Das for his 39 invented formulae under the title "INNOVATION OF PEDAGOGIES IN...



DR ARIJIT DAS <arijitdas78chem@gmail.com>

Copyright Registration Certificate of Dr Arijit Das for his 39 invented formulae under the title "INNOVATION OF PEDAGOGIES IN THE FILED OF CHEMICAL EDUCATION"

RNM <mm@iiserkol.ac.in>

Sun, Aug 12, 2018 at 6:05 PM

To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

Dear Dr Das,
Hearty Congratulations!
Best wishes,
Yours sincerely,

Prof. R. N. Mukherjee
Emeritus Fellow, Department of Chemistry
Indian Institute of Technology Kanpur
Kanpur 208 016, INDIA
Tel.: +91 512 259 7437
Fax: +91 512 259 7436
<http://home.iitk.ac.in/~rnm>

(Sent using a mobile device)

[Quoted text hidden]

From IIT Kharagpur:

8/13/2018

Gmail - Copyright Registration Certificate of Dr Arijit Das for his 39 invented formulae under the title "INNOVATION OF PEDAGOGIES IN...



DR ARIJIT DAS <arijitdas78chem@gmail.com>

Copyright Registration Certificate of Dr Arijit Das for his 39 invented formulae under the title "INNOVATION OF PEDAGOGIES IN THE FILED OF CHEMICAL EDUCATION"

Pratim Chattaraj <pratim.chattaraj@gmail.com>

Tue, Aug 7, 2018 at 8:59 PM

To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

Congrats !

[Quoted text hidden]

Prof. P. K. Chattaraj, FASc, FNA, FNASc

J. C. Bose National Fellow

Professor, Department of Chemistry

Convener: Centre for Theoretical Studies, Kharagpur local chapter of INSA

Indian Institute of Technology Kharagpur

Kharagpur – 721302. Email: pratim.chattaraj@gmail.com

From University of Calcutta:

8/13/2018 Gmail - Copyright Registration Certificate of Dr Arijit Das for his 39 invented formulae under the title "INNOVATION OF PEDAGOGIES IN..."



DR ARIJIT DAS <arijitdas78chem@gmail.com>

Copyright Registration Certificate of Dr Arijit Das for his 39 invented formulae under the title "INNOVATION OF PEDAGOGIES IN THE FILED OF CHEMICAL EDUCATION"

gurunath mukherjee <mukherg@rediffmail.com>
To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

Wed, Aug 8, 2018 at 10:50 AM

Congratulations Dr Arijit
Please go ahead
Best wishes
Yours
G N Mukerjee

Prof. G. N. Mukherjee (Retd-)

Sir Rashbehary Ghose Professor of Chemistry

Department of Chemistry

University of Calcutta, 92, A. P. C. Road, Kolkata 700 009

India. Email:mukherg@rediffmail.com

From University of Kalyani:

8/13/2018 Gmail - Copyright Registration Certificate of Dr Arijit Das for his 39 invented formulae under the title "INNOVATION OF PEDAGOGIES IN..."



DR ARIJIT DAS <arijitdas78chem@gmail.com>

Copyright Registration Certificate of Dr Arijit Das for his 39 invented formulae under the title "INNOVATION OF PEDAGOGIES IN THE FILED OF CHEMICAL EDUCATION"

Nilashis Nandi <nilashisnandi@yahoo.com>
Reply-To: Nilashis Nandi <nilashisnandi@yahoo.com>
To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

Wed, Aug 8, 2018 at 4:24 PM

Congratulations for your achievement. Wish you all the best for future.

best regards
N. Nandi

Dr. Nilashis Nandi

Professor

Department of Chemistry

University of Kalyani

Kalyani, Nadia, West Bengal, 741235

India

Alternate e-mail: nilashisnandi@rediffmail.com ;

nilashisnandi@gmail.com

Website: <https://sites.google.com/site/nilashisnandi/>

M: 9433056943 (India: +91)

[Quoted text hidden]



DEPARTMENT OF CHEMISTRY

DAVIS, CALIFORNIA 95616

ASSOC. PROFESSOR DELMAR S. LARSEN

Department of Chemistry
University of California
One Shields Avenue
Davis, CA 95616
Telephone: (530) 754-9075
FAX: (530) 752-8995

e-mail Address: dlarsen@ucdavis.edu

Dr. Arijit Das, Ph.D.
Assistant Professor, Department of Chemistry
Ramthakur College
Agartala, Tripura (West), Tripura, India, Pin-799003

Dear Prof. Das:

As the founder and current Director of the University of California, Davis ChemWiki project, I would like to give my cordial congratulations to you for your all innovative teaching methodologies and formulae that you have formulated within the field of Chemical Education. I am especially appreciative of you donating these materials to the ChemWiki earlier this year.

I have gone through your all methodologies (Predicting the Bond-Order of Diatomic Species without MOT, Hybridization of Simple Molecules and Heterocyclic Compounds, Magnetic Behavior of Diatomic Species, Bond-Order of Oxides based Acid Radicals, Evaluating Spin Multiplicity, Identifying Aromatic and Anti-Aromatic Compounds, Calculating of π -bonds, σ -bonds, single and double bonds in Straight Chain and Cycloalkene Systems) and found that they are very much helpful for teaching at undergraduate, senior undergraduate as well as post graduate level students to make chemical education metabolic, simplest and time economic. I have attached the current ChemWiki URLs that link to your content in this letter.

While I do not have solid numbers indicating the efficacy of your pages specifically, a recent Chemistry Education Research and Practice (DOI: 10.1039/c5rp00084j) shows that the Wikitexts constructed from ChemWiki content like yours was statistically capable of substituting for conventional textbooks. Since integration of your content into the ChemWiki, it has garnered approximately 0.01% of our traffic. While this may appear a small and perhaps a negligible impact, it is very much not. With our current 80 million annual visitor traffic, your content has been accessed by close to 8,000 visitors to date each with your name and the Ramthakur College affiliation clearly indicated. As the traffic to the ChemWiki and Steve's content grows, the dissemination of your (and Ramthakur College) educational efforts correspondingly increase.

I look forward to many positive future discussions. Thank you.

Regards,

Delmar Larsen

Letter of Appreciations from Different Eminent Personalities

Dr. V. Jagannadham Ph.D., D.Sc.

91-9866987955

jagannadham1950@yahoo.com

Editor-in-Chief

World Journal of Chemical Education

(Science & Educational Publishing, USA)

http://www.sciepub.com/journal/WJCE/EditorialBoard#.Ui6C2tI_duI

Professor (Retired)

Department of Chemistry

Osmania University


Hyderabad-500007

India

November 3, 2015

To whomsoever it may concern

I have great pleasure in saying about **Dr. Arjit Das** a few words. He is doing highly commendable job for the field of chemical education. May God bless him for more success in the coming years. His painstaking efforts in this direction will benefit the freshmen students a lot. I wish him all success.



V. Jagannadham

From:

Prof. G. N. Mukherjee

**Sir Rashbehary Ghose Professor of Chemistry (Retired)
University College of Science, University of Calcutta
92, Acharya Prafulla Chandra Road, Kolkata-700 009
e - mail: mukherg@rediffmail.com**

Date: 03-11-2015

To whom it may concern

Recent publications of **Dr. Arijit Das, M.Sc., Ph.D.**, in the field of Chemical Education deserve high appreciation. The innovative methodologies and formulas derived by Dr. Das are useful for both teaching and learning processes.

I like to see him doing further works in this field and at the same time venturing into the new emerging areas of chemistry.



Prof. G. N. Mukherjee

Residence: Ramakrishna Dham, 11, Snuff Mill Street, Belgharia, Kolkata-700 056. India. Ph: 033-2564-4215



School of Chemistry
University of Hyderabad
Hyderabad - 500 046

Prof. Sa
FASc, FAPAS

Fax : +91-(0)40-2301-2460
Email : skdas@uohyd.ac.in
Web : <http://chemistry.uohyd.ac.in/~skd/>

To
Dr. Arijit Das, Ph.D. (Inorganic Chemistry)
MACS (Invited, USA), FICS, FISC, FIAFS (India)
Assistant Professor, Deptt. of Chemistry,
Ramthakur College, Agartala, Tripura(W),
Tripura, India, Pin-799003.

November 04, 2015

Dear Dr. Das,

First of all, I would like to express my cordial congratulations to you and also your appreciative efforts to make Chemical Education interesting and time economic by establishing your innovative 16 time economic teaching methodologies and 36 new formulae, that you have formulated within the field of Chemical Education.

I have gone through these documents and found that they are very helpful for teaching undergraduate as well as post graduate chemistry students.

In fact, I have forwarded these documents to my colleagues here (School of Chemistry, University of Hyderabad), so that these innovations of teaching methodology can be introduced in our regular (teaching) syllabus.

I wish that these new innovative methods would come in Inorganic and Organic text books of undergraduate, senior under graduate and post graduate levels.

Lastly, I convey my best wishes for taking the initiative to make the book 'Press Review' (**Time Economic Informatics Database In Chemical Education**) and I think, this book will stimulate our next generation to carry out their research work in the field of Chemical Education.

Let me congratulate to you once again for your all appreciative works in the field of Chemical Education for our next generation.

With best wishes.

Sincerely yours,

S.K. Das
(Samar K. Das) 04/11/2015

Prof. Samar K. Das
School of Chemistry
University of Hyderabad
Hyderabad-500 046, INDIA.

Prof. R.K.Nath. M.Sc. Ph.D. (Cal)
DEPARTMENT OF CHEMISTRY
TRIPURA UNIVERSITY
(A Central University)
Suryamaninagar 799022
West Tripura
India



Phone:0381-2379076
Fax: 0381- 2374802
Ph:09436508446
Email:rkmath1995@gmail.com

To
Dr.Arijit Das,Ph.D.
MACS (Invited,USA), FICS (India)
Assistant Professor, Deptt.of Chemistry,
Ramthakur College, Agartala, Tripura(W),
Tripura, India, Pin-799003.

Date:05.11.2015

Dear Dr. Arijit Das,

First of all I would like to give my cordial congratulations to you for your enthusiastic effort to make Chemical Education metabolic interesting and time economic by established innovative 16 time economic teaching methodologies and 36 new formulae.

I have gone through your all documents and found that they are very helpful for teaching and learning at undergraduate, senior undergraduate as well as post graduate level.

I desire that these new methods will come in Inorganic and Organic text books of UG and PG level.

Lastly I express my best wishes for taking this initiative to make the book 'Press Review'(Time Economic Informatics Database In Chemical Education) for our next generation.

My best wishes are always with you. Pl move forward.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'R.K.Nath'.

Professor R.K.Nath
(HEAD)
Department of Chemistry
Tripura University
Suryamaninagar, India

TRIPURA UNIVERSITY

(A CENTRAL UNIVERSITY)

Suryamaninagar, Agartala

Tripura

INDIA

PIN - 799130



Phone : (0381) 237 4801

237 5454

237 4805

237 5355

Fax : (0381) 237 4802

237 4807

e-mail : tripurauniversity@rediffmail.com

website : www.tripurauniversity.in

LETTER OF APPRECIATION

It is my pleasure to appreciate the works being done by Dr. Arijit Das, Assistant Professor in Chemistry in Ram Thakur College, Agartala. He was my direct student of M.Sc. and Ph.D. Dr. Das has potential to do some thing for easy understanding and time saving in tackling the problems in chemistry for students of different standards. He has research attitude and able to think and materialize new ideas in chemistry. He has hard working and goal achieving nature.

I wish him success in his all endeavours in present and future.

Prof. M. K. Singh

Department of Chemistry

Tripura University

Suryamaninagar-799 022

Tripura West

Dr. M. K. Singh

Professor

Department of Chemistry

Tripura University

Suryamaninagar, Tripura, India.



University of Kalyani
FACULTY OF SCIENCE
Department of Chemistry

✉ Dr. Nilashis Nandi
Professor
Department of Chemistry
Kalyani, 741 235, West Bengal, India

To
Dr. Arijit Das,
Deptt. of Chemistry,
Ramthakur College, Agartala, Tripura(W),
Tripura, India, Pin-799003.

16.11.2015

Dear Dr. Das,

Thanks for your email, the attached index and preface of your forthcoming book titled 'Press Review' (Time Economic Informatics Database in Chemical Education). I understand that you summarized here the press releases on your works on the methodology of study and learning chemistry, starting from high school level which includes development of teaching methodologies and formulae development. It is very important to raise eagerness about chemistry among young students and I hope this book will be of benefit of students. I wish you all the best in your endeavor.

Thanking you,
Sincerely yours,

Nilashis Nandi

Nilashis Nandi.



School of Chemistry
University of Hyderabad
Hyderabad - 500 046
India

Prof. Samar K. Das
FASc., FNASc.

Phone : +91-(0)40-2313-4853
Fax : +91-(0)40-2301-2460
Email : skdas@uohyd.ac.in;
: samar439@gmail.com
<http://chemistry.uohyd.ac.in/~skd/>

To whom it may Concern

I am pleased to write this supporting letter in favour of Dr. Arijit Das, who is currently an assistant professor in Chemistry of Bir Bikram Memorial College (BBMC), Agartala, Tripura(W).

I have been knowing Dr. Arijit Das since last several years through his inorganic chemistry research publications. He produced lot of interesting results from a small college of Tripura. Being an inorganic chemist, I follow his research publications and I am impressed by his research activities. He is not only an excellent researcher but also a good teacher. He developed several teaching methodologies that are very useful for a teacher in under graduate teaching as well as in post graduate teaching. He got several recognitions and awards (see his CV) because of his active research work and for providing teaching tool. His API score (according to UGC guide line) is around 650, which is a huge score for a teacher, teaching in a remote college. Dr. Arijit Das could achieve this huge API score because of his dynamic research activities and useful teaching methodologies. He deserves to become an associate professor, as far as his academic accomplishments are concerned.

I would not hesitate to mention that he is an excellent synthetic chemist as well as a best teacher.

I have pleasure to say that I know him to be a teacher / scientist / researcher of unusual ability. Arijit is honest, diligent, loyal and trust-worthy in every way. In my opinion, he would be a credit to any research / teaching institute of repute. I do not hesitate to state that Arijit will be an excellent addition to any research / teaching institute of repute. **Being a Humboldt fellow (myself)**, I strongly recommend Dr. **Arijit Das** for an associate professor position.

Yours sincerely,

(Samar Kumar Das)

Place: Hyderabad, India

August 07, 2019

'Letter of Merit and Appreciation from the founder and Head, Dr.Edel Garcia, minerazzi.com, USA'

December 26, 2018

Dr. Arijit Das, Ph.D.
Assistant Professor, Department of Chemistry
Ramthakur College
Agartala, West Tripura, India

RE: Letter of Merit and Appreciation

Dear Professor Das:

As the founder and head of Minerazzi.com, I would like to acknowledge that we have built two of our software tools, The Hydrocarbons Parser and The Bond Order Calculator, inspired in your set of innovative and time economic formulae for chemical education.

Your methodologies are certainly novel. More important, they are suitable for designing computer-based learning (CBL) activities and for developing computer programs for solving chemistry problems.

We believe that students who know how to write computer programs for solving chemistry problems are better prepared when taking quantitative courses like analytical chemistry, instrumental analysis, chemometrics, and computational chemistry. They are in general better prepared for multidisciplinary research and post-doctoral work.

Serve this Letter of Merit and Appreciation to describe our gratitude towards you. We look forward to develop new tools inspired in your methodologies, for educators, scholars, and chemistry students to enjoy.

Regards

Dr. Edel Garcia, Ph.D.
Founder, Minerazzi.com
admin@minerazzi.com

Invitation as Committee Member in the 2nd International CMER Conference (Chemistry, Materials and Energy) held on Guangzhou, China, dated October 11-13, 2019 received from the committee of CMER 2019, China dated 23rd July 2019 and joined 26th July 2019 .



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Helen Edwards
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October 8th 2019

To whom it may concern,

This letter is to confirm that Dr. Arijit Das has been listed as a member of our Chemistry Editorial Advisory Board since October 2019, after his application was found to meet all of our requirements.

These boards have been established to help CSP expand their current author community and scope of titles.

If you have any further queries please do not hesitate to contact me.

Kind regards,



Helen Edwards
Commissioning Editor
helen.edwards@cambridgescholars.com

Cambridge Scholars Publishing



December 5th 2019

To whom it may concern,

This is a letter to certify that Dr Arijit Das is a member of our Chemistry Editorial Advisory Board. Dr Das joined the Editorial Board in October 2019 and is a valued and respected member of our advisory community.

Our Editorial Advisory Boards (EABs) were established to help direct our publishing strategy. Members offer their guidance on potential publications and carry out peer reviews on selected manuscripts in their respective fields.

The EABs contain scholars from all over the world and cover more than 300 academic disciplines, from Dentistry to Robotics and Plant Ecology to Banking.

Kind regards,



James Brittain

Commissioning Editor

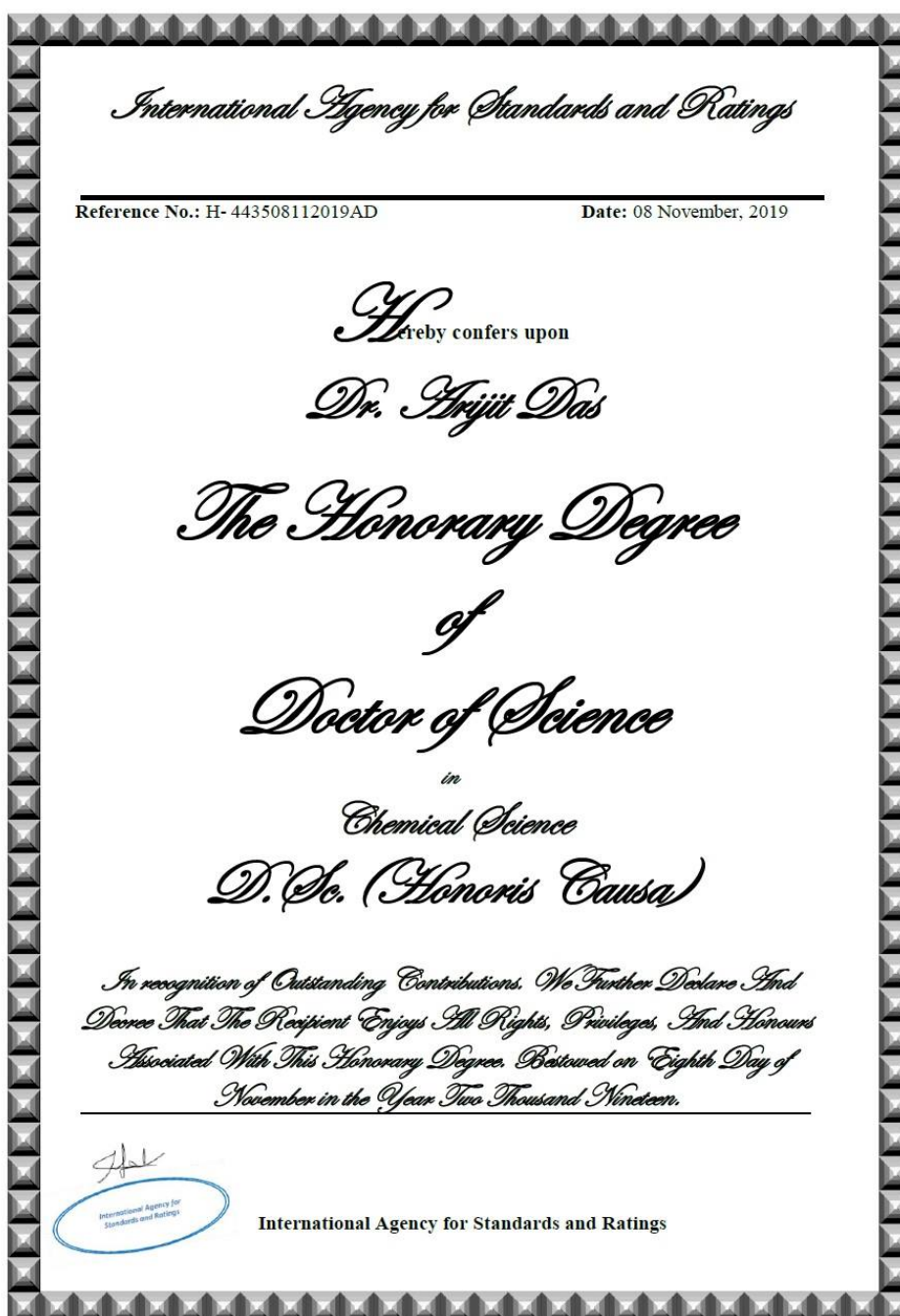
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**Dr. Arijit Das conferred with Honorary Degree of Doctor
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Science from the IASR**


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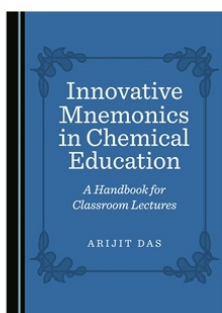
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HOME / PHYSICAL SCIENCES / INNOVATIVE MNEMONICS IN CHEMICAL EDUCATION



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Author(s):
Arijit Das

RECOMMEND TITLE

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This book details formulae-based, time-economic, and innovative learning techniques in chemistry, which serve to help students grow an interest in chemistry, and memorise specific aspects of the subject. It highlights the limitations of conventional methods and solves them in innovative ways.

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ADD TO WISHLIST

Biography

Dr Arijit Das is an Assistant Professor in the Department of Chemistry at Bir Bikram Memorial College (BBMC), India, having received his PhD from Tripura Central University, India, in 2008. He is a member of the Chemical Education Division of the American Chemical Society, and a Lifetime Fellow of the Directorate of Chemical Science, as recognised by the International Agency for Standards and Ratings, which also mentioned him among the world's "500 Most Influential Experts in Chemical Science" in 2018.


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DR. ARIJIT DAS, IQAC Member, Tripura University, INDIA
(Duration two (02) yrs: May 2020-May 2022)

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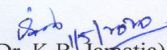
No.F.TU/IQAC/02/2013

Date: 01.05.2020

NOTIFICATION

The Hon'ble Vice-Chancellor (In-charge), Tripura University has been pleased to re-constitute the IQAC, Tripura University with the following members for a period of 2 (two) years with effect from the date of notification, as per the guidelines of UGC, October 2013.

1. The Vice Chancellor, TU - Chairperson
2. Senior Administrative officers
 - (a) Pro-Vice Chancellor, TU - Member
 - (b) Dean, Faculty of Science, TU - Member
 - (c) Dean, Faculty of Arts & Commerce, TU - Member
3. Three to Eight teachers
 - (a) Prof. Chinmoy Roy, Dept. of Commerce, TU - Member
 - (b) Prof. Swapan Majumdar, Dept. of Chemistry, TU - Member
 - (c) Prof. Ashish Nath, Dept. of Economics, TU - Member
 - (d) Dr. Sipra Ray, Dept. of Sanskrit, TU - Member
 - (e) Dr. B.M. Pandey, Dept. of Law, TU - Member
4. One member from the management.
Sri M.M. Reang, Joint Registrar (Admin), TU - Member
5. One/two nominees from local societies, students and alumni
 - (a) Dr. Arijit Das, Asst. Prof., Dept. of Chemistry, BBM College, Agt - Member
 - (b) Mr. Subrata Pal, Alumni, Law Department - Member
6. One/two members from employers/Industrialists/Stake holders (to be nominated) - Member
7. Prof. B.C. Tripathy, Dept. of Mathematics, TU - Director cum Member Secretary


(Dr. K.B. Jamatia)
Registrar (i/c)

To
All members of the committee
.....

Copy to:

1. The Head/Head (i/c), Department of _____, T.U. with a request to circulate the Notification among the faculty members/staff/students.
2. All Officers of the University
3. Sri Suman Das, Sr. Technical Assistant, T.U. for uploading the Notification in T.U. website.
4. P.S. to the Vice-Chancellor, T.U. for kind information of Hon'ble Vice-Chancellor.

**DR. ARIJIT DAS, Convener, Integrated M.Sc.
(Chemistry), MBB University, Agartala, Tripura, India
(May 11, 2020)**



MAHARAJA BIR BIKRAM UNIVERSITY

P.O.: Agartala College- 799 004

Dial : (0381) 251 2250, 251 2252, 251 2254

Email: mbbuniversityagt@gmail.com

No.F.15(27)/MBBU/Academic/IMD/Sc./2020/194-200

May 11, 2020

NOTIFICATION

An Expert Committee is hereby constituted with the following members to prepare the syllabus, model questions for Entrance Test and other modalities of 5 years Integrated Master Degree in Chemistry to be introduced in the MBB University:

- | | |
|--|-----------------|
| 1. Professor R.N. Dutta Purkayastha,
Professor, Deptt. of Chemistry, Tripura University
Email: rndp@tripurauniv.in, rndp09@gmail.com
Mobile: 9402137040 | <i>Chairman</i> |
| 2. Dr. Bhabatosh Saha, President,
Tripura Board of Secondary Education
Mobile: 7005889315 | Member |
| 3. Dr. Kashinath Das,
Retired Reader
Email: kndbenz@rediffmail.com
Mobile: 9366825921 | Member |
| 4. Dr. Asish Mitra, Associate Professor,
Deptt. of Chemistry, Maharaja Bir Bikram College
Email: amiprall963@gmail.com
Mobile: 9436125541 | Member |
| 5. Dr. Arijit Das, Assistant Professor,
Deptt. of Chemistry, Bir Bikram Memorial College
Email: arijitdas78chem@gmail.com
Mobile: 9862211165 | <i>Convener</i> |

The Committee is requested to submit its report to the undersigned latest by **May 25, 2020**.

This issues with the approval of the Vice-Chancellor, MBB University.

Sumanta
11/05/2020
(Dr. Sumanta Chakrabarti)
Registrar

To

1. Professor R.N. Dutta Purkayastha, Professor, Deptt. of Chemistry, Tripura University, Suryamaninagar, Agartala.
2. Dr. Bhabatosh Saha, President, Tripura Board of Secondary Education, Agartala.
3. Dr. Kashinath Das, Retired Reader, Agartala.
4. Dr. Asish Mitra, Associate Professor, Deptt. of Chemistry, Maharaja Bir Bikram College, Agartala.
5. Dr. Arijit Das, Assistant Professor, Deptt. of Chemistry, Bir Bikram Memorial College, Agartala with a request to convene the meeting at the earliest.

Achieved 'Best Researcher Award' @ International Scientist Awards on Engineering, Science and Medicine, organized by the VDGGOOD Professional Association, India, 04th & 05th July 2020, Coimbatore, India



**Achieved InSc 'Research Excellence Award-2020', Oct-2020,
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awarded to

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Ph.D.

Assistant Professor
Department of Chemistry
Bir Bikram Memorial College (Bbmc)
Tripura.

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Publication Title: Journal

Paper Title: Bimetallic and Trimetallic Cd(II) and Hg(II) Mixed-Ligand Complexes with 1,1-dicyanoethylene-2,2- dithiolate and Polyamines: Synthesis, Crystal structure, Hirshfeld Surface analysis, and Antimicrobial study

Journal name : Inorganica Chimica Acta, Elsevier

Volume: 512

Month of publication : July

Year : 2020

Page No: 119877

ISSN: 0020-1693

Nanjesh Bennur
Director, InSc

Reviewers:

1. Prof. R. N. Mukherjee

Former Director and Professor of chemistry
Indian Institute of Science Education and Research (IISER), Kolkata
Email: rnm@iitk.ac.in.

2. Prof. G. N. Mukherjee (Retd-)

Sir Rashbehary Ghose Professor of Chemistry
Department of Chemistry
University of Calcutta, 92, A. P. C. Road, Kolkata 700 009
India. **Email: mukherg@rediffmail.com**

3. Prof. R. A. Lal,

(Former Head)

Dept. of Chemistry,
NEHU University, Shillong. **Email: ralal@rediffmail.com**

4. Prof. Arabinda Kumar Das (Retd), Ex-VC, Kalyani University

Department of Chemistry
The University of Burdwan
Burdwan – 713104, West Bengal, INDIA.
Email: arabindakdas@rediffmail.com

5. Dr. P. K. Chattaraj, FASc, FNA, FNASc

J. C. Bose National Fellow

Professor, Department of Chemistry

Convener: Centre for Theoretical Studies, Kharagpur local chapter of INSA

Indian Institute of Technology Kharagpur

Kharagpur – 721302. **Email: pratim.chattaraj@gmail.com**

6. Prof. Samar K. Das, FASc.

School of Chemistry
University of Hyderabad
Hyderabad – 500046, India. **Email: samar439@gmail.com**

7. Dr. Delmar Larsen

Associate Professor
Department of Chemistry, University of California, Davis
One Shields Avenue, Davis, CA 95616
dlarsen@ucdavis.edu, <http://LarsenLab.ucdavis.edu>
<http://ChemWiki.ucdavis.edu>

8. Dr. Edel Garcia

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