

Dr. Arijit Das

CURRICULUM VITAE (CV)

DR. DAS ARIJIT

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

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Youtube Link:

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Formerly:

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

Table of Contents

Item	Page Number
1. Personal Profile	3
2. Educational Qualifications	4
3. Research Field / Project	5-6
4. Description of Experiences	7-8
5. Academic Seminar/Conference/Workshop/Training	8-10
6. Editor and Reviewer Invitation From Abroad (U.K. & USA)	10
7. Fellowship & Membership of Professional Bodies	10-11
8. Innovation of 21 Teaching Methodologies	11
9. Approval of Different Universities and IIT's	12
10. Press Releases (State/National/International)	13-15
11.Interview on Innovation @ Media	16
12. Award / Honour Received	16-18
13. List of publications with indexing 14. Indexed ERIC & WikiEducator	18-24
15. Educational Software Tool Launched in USA	24-30
~	30-31
16. chem.libretexts.org, University of California, ACS, NY,USA	31-32
17. Book published	32-33
18. ACS Recognition on Invented 38 Formulae 2023	33
19. Copyright Registration from the Govt. of India	34-37
20. World Championship-2018 in Chemical Education	38-39
21. Appreciation Letters received after achieved copyright	40-46
Registration certificate from the ACS, ICS, ISCA, IIT's etc. 22. Certificate on the Recognition	45
from the University of California, Davis	47
23. Letter of Appreciations from Different Eminent Personalities	48-55
24. Invitation from China	48-55
25. Chemistry Editorial Advisory Board Member, Cambridge Schola	56
26. Honorary Degree of Doctor of Science (D.Sc.)	58
27. Published Book from the Cambridge Scholars, England, UK	59
28. IQAC Member, Tripura University, Tripura, India	60
29. Convener, Integrated M.Sc. (Chemistry), MBB University	61
30. International Scientist Awards, VDGOOD, Coimbatore, India	62
31.InSc Awards 2020	63
32. 100 Powerful Personalities 2022	64
33. Indexed Stanford University	65-75
34. Reviewers	76

Personal Details:

Name: DR ARIJIT DAS

Date of Birth: 14th March 1978

Nationality: Indian

Gender: Male

Occupation: Associate Professor (Chemistry)

Marital status: Married

Present residence: AdiAksha Bhaban, Barmantilla, Jogendranagar,

(Correspondence) Agartala, West Tripura, Tripura, India, Pin-799004

Mobile- 91-9862211165/ 9436583574 (M)

Address: S/O Late Anil Ranjan Das, Retd. IS

(Permanent) Kacharghat, Kailashahar, Tripura(N),

Tripura, India, Pin-799277.

Phone:-(03824)(222715)/9862211165 (M)

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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. 'Synthetic Inorganic Research Lab.', 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

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: '<u>SERB-DST</u> 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.) @ 33480.00 / month (Duration 3yrs).

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.) @ 14000.00 / month (Duration 2yrs).

Research Collaboration (Abroad & India):

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.
- 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 Quimica, Universitat de les Illes Balears, Crta. de Valldemossa km 7.5, 07122 Palma de Mallorca (Baleares), 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, Wybrzeze Wyspiańskiego 27, 50-370 Wrocław, **Poland**.
- **10. Prof. Antonio Bauzá**, Department de Quimica, Universitat de les Illes Balears, Crta. de Valldemossa km 7.5, 07122 Palma de Mallorca (Baleares), **Spain**.
- **11. Prof. Waldemar Maniukiewicz**, Institute of General and Ecological Chemistry, Lodz University of Technology, Zeromskiego 116, 90-924 Lodz, **Poland.**
- **12. Prof. Neratur Krishnappagowda Lokanath,** Department of Studies in Physics, **University of Mysore**, Mysuru-570006.

DESCRIPTION OF EXPERIENCES

Academic Experiences:

- 1. <u>Faculty of Chemistry</u> 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. <u>Post Graduate Teacher of Chemistry</u> 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.** <u>An External Examiner</u> in **B.Sc.(TDC -Pass)** Part-I, Part-II & Part-III Practical Examination at Ram Krishna Mahavidhyalay, Kailashahar on April 2011.
- **5.** <u>Judge in the Sub-division Level Science Seminar-2011</u>, Dharmanagar, Tripura(N), organized by Dept. of Science & Technology, Tripura on 23-08-2011.
- **6.** <u>An External Examiner</u> in **B.Sc.(TDC-Hons)** Part-I, Part-II & Part-III Practical Examination at Ram Krishna Mahavidhyalay, Kailashahar on April 2012.
- 7. Tripura University Question Setter and Examiner (2012-2019).
- 8. M.B.B. Universty Question Setter and Examiner (2019-2023).
- 9. Organizer, several One-day Symposia in Chemistry and Theoretical Chemistry.
- 10. Principal Investigator of one SERB, DST, New Delhi Sponsored projects.
- 11. Evaluator Co-ordinator, All Tripura info. Mega Quiz-2013, 2014, 2015 Venue-Rabindra Sata Barshiki Bhawban dated 8th July-2013, 7th Sept-2014, 20th Sept 2015.
- 12. <u>Assistant Professor</u>. <u>Department of Chemistry, Bir Bikram Memorial College (BBMC), College Street, Agartala, Tripura (W) w.e.f. 13th June 2019 to Present.</u>
- 13. Attended as a Resource person and delivered speech on 'International Year of the Periodic Table (IYPT-2019)' in the 47th State Level Science, Mathematics and Environment Exhibition, dated Dec 02, 2020 organized by the SCERT, Govt. of Tripura.
- **14. 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.
- 15. Attended 49th State Level Science Seminar-2022 as Judge, organized by SCERT, Govt. of Tripura, Venue: Umakanta Academy, dated Jan 08, 2023, Venue: Umakanta Academy H.S. School, Agartala. *Time: 11-4pm*.
- 16. KV No. 1 Kunjaban Present as Judge in the 50th Jawaharlal Nehru National Science Mathematics & Environment Exhibition and Seminar JNNSMEE- 2022-23 and 50th Rashtriya Bal Vaigyanic Pradarshini (RBVP) for students of all the KVs of Tripura Cluster on 21.04.23 at 11.00 a.m 4.30pm.
- 17. Question Setter, MBBU (IMD Chemistry / TDP (Hons/GEN), Sem-I to Sem VI Exam) since 2019 to present.
- 18. Present as Judge in the District Level Science Seminar-2023 Organized by the District Education Office, Agartala, West Tripura dated Sept 12 2023.
- 19. Present as Judge in the State Level Science Seminar-2023 organized by the SCERT Department, Govt. of Tripura, dated Sept 20 2023.
- 20. Present as Judge in the 51st Rajyastariya Bal Vaigyanik Pradarshani. Feb 2-3, 2024, Organized by the SCERT, Govt. of Tripura.
- 21. Present as Resource Person in the National Seminar organized by the G.D.C. Dharmanagar along with Indian Science Congress Association and discussed 'Nuclear Power Production from Th-232' within the 'Prototype Fast Breeder' Honourable PM of India Shri Narendra Modi on 4th March 2024 came to Kalpakkam, Tamil Nadu to initiate the core loading in the Prototype Fast Breeder Reactor.

Administrative Experiences:-

- 1. Observer of NTA (National Testing Agency) at NEET-2023 dated May 07, 2023.
- 2. Convener, Expert Committee, Integrated M.Sc. in Chemistry, M.B.B. University w.e.f. May 11, 2020 to till March 2023.
- 3. <u>Member, IQAC cell, Tripura University (A Central University), Suaryamaninagar, Tripura for two yrs w.e.f. May 2020 to May 2022.</u>
- 4. Nodal Officer NIRF, Bir Bikram Memorial College, Agartala, Tripura, India (Dec 08, 2020 present).
- 5. 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.
- 6. Co-ordinator, Placement Cell, Ramthakur College, Agartala, West Tripura (2018-19).
- 7. Joint Secretary, Teacher's Council, Ramthakur College, Agartala, Tripura(W), India (July2014-)
- 8. Course Cordinator 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.
- 9. <u>Head, Dept. of Chemistry</u>, 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).
- 10. <u>Senior Scientific Officer (Chemical Discipline)</u> Group A Gazetted, Tripura State Forensic Science Laboratory, Home Dept., Govt. of Tripura, Tripura, India For a period of 09 Months (w.e.f. 26-04-201006-01-2011).
- 11. Observer of TBJEE (Tripura Board of Joint Entrance Examination) at TBJEE-2024 dated May 02, 2024.

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.**<u>International Conference on Emerging Areas of Chemistry,</u> 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. <u>Career Counselling Workshop</u>, organized by UGC Cell, Govt. Degree College, Dharmanagar, Tripura North, Tripura, India, Feb (19-21), 2011.
- 8. <u>Tripura Science Congress</u>, organized by Tripura State Council For Science and Technology, Govt. of Tripura, Sept 8-9, 2011(OP).
- 15th National Conference On Surfacetants, 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. <u>Invited Speaker at District Level Seminar</u>, on the topic 'Vivekananda and Recent India'Town hall, Dharmanagar, organized by Dept. of Higher Education, Govt. of Tripura, 18th Aug-2012.
- 11. <u>National Seminar on Green Chemistry and Nano science Theory and Applications</u>, 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, Acharva Prafulla Chandra Road, Kolkata 700 009.
- 13. <u>Quality Enhancement in Higher Education in Northeast India: Challenges and Opportunities</u>, National Seminar, 25th & 26th February 2017 organized by IQAC, Govt. Degree College, Dharmanagar, North Tripura sponsored by NAAC.
 14. <u>Science and Technology for National Development, National Seminar</u>, 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. <u>International Webinar</u> 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. <u>ACS Webinars</u> 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. <u>ACS Science Talks</u> 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. <u>National Webinar</u>, 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.
- 45. ACS Spring, 2023, March 26-29, 2023.

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 Gadhave 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 Kingdo (2019 - 2023)

Link: https://www.cambridgescholars.com/editors/item/2568

ii) 'WORLD JOURNAL OF CHEMICAL EDUCATION', Science and Education Pub., USA. (Dec 2013 -) (Link: http://www.sciepub.com/journal/WJCE/EditorialBoard) (2013-)

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. 'OScience 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. Biresh 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.

Proposed 26 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 heteronucler 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
- 28. Metal Ions Separation Via Paper Chromatography: Enhanced Methods Using Eluting Solutions

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 BODIES

- 1. Stanford University 2. University of California, Davis, US 3. Vinh University, Vietnam
- 4. Education Resources Information Center (ERIC), Institute of Education Sciences (IES), United States

 Department of Education. 5. American Chemical Society, NY, US. 6. Federation of African Societies of

 Chemistry (FASC), Ethiopia, Africa. 7. The City College of New York, US 8. British Library, London, UK.

Press Release (2012-2021)

(National Daily / News Web Portal)

SL. No.	National Daily / News Web	Published Date	Publication
	Portal		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, 10 th May 2021	03
4.	`Webindia123', India (National Web)	25 th September-2012	01
5.	'NorthEast Calling', India (National Web)	2 nd September-2015	01
6.	Zee News	9 th July 2021	01

Press Release (2013-2018)

(International News Web Portal)

International News Web Portal	Published Date	Publication Times
USA News Corp (International Web)	12 th November-2018	01
'The Indian EYE. NET', USA (International Web)	21 st October-2015	01
`IR Thoughts', USA (International Web)	18 th September-2015 20 th December-2018	02
'World News.com' , USA (International Web)	8 th December-2013 14 th February-2014 3 rd September-2015	03
	USA News Corp (International Web) 'The Indian EYE. NET', USA (International Web) 'IR Thoughts', USA (International Web) 'World News.com', USA (International Web)	USA News Corp (International Web) The Indian EYE. NET', USA (International Web) TR Thoughts', USA (International Web) World News.com', USA (International Web) 12 th November-2018 12 th November-2015 18 th September-2015 20 th December-2018 18 th December-2013 14 th February-2014

Press Release (2012-2024)

(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, 14 th November-2018, 22 nd November- 2018, 4 th September-2019, 9 th January-2020, 10 th August-2020.	13
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, Oct 16 2022,Nov 08,2023, Feb 23, 2024.	13
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, 15 th Oct 2022, Nov 08, 2023	16
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.	'GENERAL KNOWLEDGE ESSENTIALS', blogspot.in	20 th March-2014	01
'		ali & English State Daily: 66 time	es

Press Release (2012-2024)

(State News Web Portal)

(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, 25 th August-2013, 8 th December-2013, 10 th December-2013, 21 st December-2013, 30 th January-2014, 14 th February-2014, 26 th February-2014, 23 rd July-2014, 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, 22 nd August-2018, 22 nd August-2018, 22 nd August-2018, 22 nd August-2018, 21 th November-2018, 20 th November-2018, 21 st February-2019, 26 th July-2019, 19 th August-2019, 21 st August-2019, 17 th September-2019, 26 th July-2019, 19 th August-2019, 21 st August-2019, 17 th November-2019, 24 th October-2019, 12 th November-2019, 24 th October-2019, 11 th November-2019, 21 st August-2020, 12 th Dec 2020, 14 th March 2021, 8 th May 2021, 11 th July 2021, 14 th Oct 2022, 16 th Nov 2022, 14 th Jan 2023, 26 th March 2023, 26 th Sept & Nov 07, 2023, Dec 18	61
		2023, Feb 05 2024, May 02 2024	
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: 80 times			

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

Name of News Chanel	<u>Date</u>
1. 'Prime Focus', Agartala, Tripura	05/11/2012
2. <u>'Head Lines Tripura'</u> , Agartala, Tripura	05/11/2012
3. 'Akashbani Kailashahar', Unakoti Tripura	08/11/2012
4. 'Tripura Today', A Govt. of Tripura News Letter,	20/08/2013
ICAT Dept., Agartala, Tripura.	
5. Prasar Bharati (DDK), Agartala	14/09/18
6. International Agency for Standard and ratings (IASR)	08/11/2019
7. Wiki Bios, UK (from Wikipedia)	04/04/2019
8. Prasar Bharati (DDK), Agartala	26 th Nov, 27 th Nov 2020, Aug 25, 2022

AWARD RECEIVED (2023, 2022, 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 VDGOOD 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, <u>International Agency for Standards and Ratings</u> (IASR), USA, Email: <u>plojindexing@gmail.com</u> dated Nov 8, 2019.
- 4. <u>International Award received World Championship-2018</u> 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. <u>Award received as 'PMLPMRF'-1st Fellow</u> from Tripura University, Tripura, India-Duration two(02) years (2002-2004).
- 6. India Prime Quality Education Awards 2021 (Innovation in Chemical Education), organized by the FoxClues Marketing & Research Organizations, <u>Bangalore, Karnataka, India</u>, <u>info@foxclues.com</u>.
- 7. India Prime Author Awards 2021 (Innovation in Chemical Education), organized by the FoxClues Marketing & Research Organizations, <u>Bangalore</u>, <u>Karnataka</u>, <u>India</u>, <u>info@foxclues.com</u>.
- 8. 100 Powerful Personalities 2022, organized by the Glantor X, Frontline Media, India, info@glantorx.com
- 9. BHARAT EXCELLENCE AWARD 2023, organized by the Friendship Forum, New Delhi, India.

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

- 1. <u>Invitation received from the prestigious 'American Chemical Society'</u>(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. <u>Felicitated with 'Certificate of Honour'</u> by <u>Honble Higher Education Minister</u>, <u>Govt. of Tripura</u>, Mr. Anil Sarkar @ Govt. Degree College, Dharmanagar, North Tripura, Tripura, India, dated 27th Sept-2012.
- 4. <u>Felicitated with 'Certificate of Honour'</u> by <u>Department of Chemistry</u>, Govt. Degree College, Dharmanagar, North Tripura, Tripura, India, dated 12-Sept 2012.
- 5. <u>Felicitated by TCTA Unit Cell</u>, Department of Chemistry, Govt. Degree College, Dharmanagar, North Tripura, Tripura, India dated <u>25-Sept 2012</u>.
- 6. <u>Felicitated with 'Certificate of Honour'</u> by 'Saktisangha Club', Kailashahar, Unakoti, Tripura, in the Inauguration day of 50th Durga Puja dated 19th Oct 2012.
- 7. <u>Felicitated with 'Certificate of Honour</u>' by 'Eikatan Club', Kailashahar, Unakoti, Tripura, in the Inauguration day of Kali Puja dated <u>12th Nov 2012</u>.
- 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' Felicitated by Mr.Nitish De , Convener,Book Fair Committee, Kailashahar 2018.
- 10. <u>Felicitated with 'Certificate of Honour' by the College of Astrology, Govt. of Tripura,</u>
 With the title of 'Jyotish Vigyani Bandhu' at Press Club Agartala dated 11th Aug 2018.
- 11. <u>Felicitated with 'Certificate of Honour</u>' in <u>the 57th Teacher's day</u> on dated 5th Sept 2018 at Press club, Agartala, Organized by the <u>Lions Club Agartala</u>, <u>Rajdhani (Dist:322G)</u>.
- 12. <u>Invited and Felicitated as a Keynote speaker in the program of 'World Ozone Day-2018'</u> organized by the Department of Science, Technology and Environment, Govt. Of Tripura dated 28th Sept 2018.
- 22. 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.
- 23. <u>Invited and Felicitated as a Keynote speaker in the program of 'Talk Show on Innovation in Chemical Education</u>' dated 8th Nov 2018 organized by the Kailashahar Municipal Council and Education Department, Govt. of Tripura at Unakoti Kalakhestra, Kailashahar, Unakoti Tripura.
- 24. <u>Felicitated with 'Certificate of Honour</u>' in <u>the celebration of 'National Press Day-2018'</u> dated 16th Nov 2018, Organized_by the Tripura Journalist Union, Unakoti District Committee, at Unakoti Kalakhestra, Kailashahar, Unakoti Tripura.

- 25. 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.
- 26. <u>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).</u>
- 27. <u>Dr. Das conferred Hony. D.Sc. in Chemical Science from International Agency for Standards and Ratings (IASR) on Nov 8, 2019.</u>
- 28. 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
- 29. Achieved 'Best Researcher Award' in the 'International Scientist Awards on Engineering, Science and Medicine', organized by the VDGOOD Professional Association, India, 04th & 05th July 2020, Coimbatore, India.
- **30.** 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.

LIST OF PUBLICATIONS (2002-2024):-

- "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

- 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) **Indexed Stanford University:**
 - https://searchworks.stanford.edu/articles/edsair edsair.doi.dedup.....90483a1acf253b2174b9fd9a181fe05e
- 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) **Indexed Stanford University:**
 - https://searchworks.stanford.edu/articles/edsair_edsair.doi......b397118b7b7ec0ba1920c8e369978044
- 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), Indexed Stanford University, Link: https://searchworks.stanford.edu/articles/eric ED610985
- 15. "New innovative methods for determination of spin multiplicity, spin state and Magnetic properties of diatomic heteronucler 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) **Indexed Stanford University:**
 - https://searchworks.stanford.edu/articles/edsair_edsair.doi.dedup.....7814003569841c47e4b864cbbcf15370
- 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. Jaggnnadam and R.Sanjeev, World
 - Journal of Chemical Education, 1(1), p6, Sept-2013, SEP, USA, DOI:10.12691/wjce-1-1-2, Indexed Stanford University, Link: https://searchworks.stanford.edu/articles/eric ED610995.

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)

Indexed Stanford University: Link:

https://searchworks.stanford.edu/articles/edsair edsair.doi.dedup.....7814003569841c47e4b864cbbcf15370

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) **Indexed Stanford University:**

https://searchworks.stanford.edu/articles/edsair edsair.doi.dedup.....16bd4464d1175bd201d3900668d1d415

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. Indexed Stanford University:

https://searchworks.stanford.edu/articles/edsair_edsair_doi.........8a8181b923391c07320a00e2809ecdad

- 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. Jaggnnadam and R.Sanjeev,

 World Journal of Chemical Education, 2014, 2(1), pp1-3, SEP, USA, DOI:10.12691/wjce-2-1-1,

 Indexed Stanford University, Link: https://searchworks.stanford.edu/articles/eric ED610994
- 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
Indexed Stanford University:

https://searchworks.stanford.edu/articles/edsair edsair.doi.dedup.....82605d8b4a6b30f248dae88821885581

- 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.

Indexed Stanford University: Link: https://searchworks.stanford.edu/articles/eric ED609695

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"

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CHEMICAL BONDING

Chapter 1 - PREDICTION OF THE HYBRIDIZATION STATE OF SIMPLE MOLECULES or IONS, pp 1-22

Link: https://wikieducator.org/File:Chapter 1-

PREDICTION OF THE HYBRIDIZATION STATE OF SIMPLE MOLECULES or IONS.pdf

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Chapter 2 - PREDICTION OF THE HYBRIDIZATION STATE OF ORGANIC COMPOUNDS, pp 23-34

Link: https://wikieducator.org/File:Chapter2 -

PREDICTION OF THE HYBRIDIZATION STATE OF ORGANIC COMPOUNDS pp 23-34.pdf

Pub Date: May 06, 2021

Chapter 3 - Prediction Of The Hybridization State - A Comparative Study Between Conventional and Innovative Formulae, pp 35-43

Link: https://wikieducator.org/File:Chapter3 -

<u>Prediction Of The Hybridization State %E2%80%93 A Comparative Study Between Conventional and Innovative Formulae pp 35-43.pdf</u>

Pub Date: May 06, 2021

Chapter 4 - BOND ORDER OF DIATOMIC SPECIES WITHOUT MOLECULAR ORBITAL THEORY (MOT), pp 44-54

Link: https://wikieducator.org/File:Chapter-

4 BOND ORDER OF DIATOMIC SPECIES WITHOUT MOLECULAR ORBITAL THEORY (MOT
) pp 44-54.pdf

Pub Date: May 06, 2021

Chapter 5 - PREDICTION OF THE BOND ORDER OF OXIDE BASED ACID RADICALS, pp 55-58

Link: https://wikieducator.org/File:Chapter-5-
PREDICTION OF THE BOND ORDER OF OXIDE BASED ACID RADICALS pp 55-58.pdf

Pub Date: May 06, 2021

Chapter 6 - PREDICTION OF THE MAGNETIC BEHAVIOUR AND BOND ORDER OF DIATOMIC SPECIES WITHOUT MOLECULAR ORBITAL THEORY (MOT), pp 59-68

Link: https://wikieducator.org/File:Chapter-6 -

PREDICTION OF THE MAGNETIC BEHAVIOUR AND BOND ORDER OF DIATOMIC SPECIE

S WITHOUT MOLECULAR ORBITAL THEORY (MOT) pp 59-68.pdf

Pub Date: May 07, 2021

Chapter 7 - INNOVATIVE METHOD FOR THE PREDICTION OF SPIN MULTIPLICITY, pp 69-80

Link: https://wikieducator.org/File:Chapter 7 -

INNOVATIVE METHOD FOR THE PREDICTION OF SPIN MULTIPLICITY pp 69-80.pdf

Pub Date: May 08, 2021

AROMATICITY

Chapter 8 - INNOVATIVE METHODS FOR THE PREDICTION OF AROMATIC ANTI-AROMATIC AND NON-AROMATIC BEHAVIOUR OF SIMPLE ORGANIC COMPOUNDS, pp 81-91

Link: https://wikieducator.org/File:Chapter 8 -

INNOVATIVE METHODS FOR THE PREDICTION OF AROMATIC ANTI-

AROMATIC AND NON-AROMATIC BEHAVIOUR OF SIMPLE ORGANIC COMPOUNDS pp 81-

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Pub Date: May 10, 2021

Chapter 9 - INNOVATIVE METHODS FOR THE PREDICTION OF AROMATIC, ANTI-AROMATIC AND NON AROMATIC BEHAVIOUR OF HETEROCYCLIC COMPOUNDS, pp 92-109

Link: https://wikieducator.org/File:Chapter 9 -

INNOVATIVE METHODS FOR THE PREDICTION OF AROMATIC, ANTI-

AROMATIC AND NON AROMATIC BEHAVIOUR OF HETEROCYCLIC COMPOUNDS pp 92-109.pdf

Pub Date: May 15, 2021

HYDROCARBONS

Chapter 10 - INNOVATIVE METHODS FOR THE CALCULATION OF CHEMICAL BONDS IN ALKENES, pp 110-113

Link: https://wikieducator.org/File:Chapter 10 -

INNOVATIVE METHODS FOR THE CALCULATION OF CHEMICAL BONDS IN ALKENES pp _110-113.pdf

Pub Date: May 19, 2021

Chapter 11- INNOVATIVE MNEMONICS FOR THE CALCULATION OF CHEMICAL BONDS IN ALKYNES, pp 114-117

Link: https://wikieducator.org/File:Chapter 11-

INNOVATIVE MNEMONICS FOR THE CALCULATION OF CHEMICAL BONDS IN ALKYNES p
p 114-117.pdf

Pub Date: Aug 09, 2021

ORGANIC IUPAC NOMECLATURE

Chapter 12 - INNOVATIVE METHODS FOR THE IUPAC NOMENCLATURE OF BICYCLO AND SPIRO COMPOUNDS, pp 118-124

Link: https://wikieducator.org/File:Chapter12 -

INNOVATIVE METHODS FOR THE IUPAC NOMENCLATURE OF BICYCLO AND SPIRO CO
MPOUNDS pp 118-124.pdf

Pub Date: Aug 11, 2021

Chapter 13 - IUPAC Nomenclature of Higher Alkanes - Innovative Method, pp 125-130

Link: https://wikieducator.org/File:Chapter 13 -

IUPAC Nomenclature of Higher Alkanes %E2%80%93 Innovative Method pp 125-130.pdf

Pub Date: Nov 21, 2021

Chapter 14 - Classification of Negative charge discriminate hybridization with aromatic and anti-aromatic behavior of organic compounds - Innovative Methods, pp 131-143

Link: https://wikieducator.org/File:Chapter 14 -

<u>Classification of Negative charge discriminate hybridization with aromatic and anti-aromatic behavior of organic compounds - Innovative Methods pp 131-143.pdf</u>

Pub Date: Nov 23, 2021

CHEMICAL BONDING

Chapter 15 - PREDICTION OF BOND ANGLE OF POLYATOMIC MOLECULES, pp 144-147

Link: https://wikieducator.org/File:Chapter 15 -

PREDICTION OF BOND ANGLE OF POLYATOMIC MOLECULES pp 144-147.pdf

Pub Date: Nov 25, 2021

INFRARED SPECTROSCOPY (IR)

Chapter 16 - Infrared spectroscopy (Theory & Principle), pp 148-150

Link: https://wikieducator.org/File:Chapter-

16 Infrared spectroscopy (Theory %26 Principle) pp 148-150.pdf

Pub Date: Nov 28, 2021

Chapter 17 - Infrared spectroscopy (Vibrational Modes), pp 151-155

Link: https://wikieducator.org/File:Chapter-

17 Infrared spectroscopy (Vibrational Modes) pp 151-155.pdf

Pub Date: Dec 06, 2021

Chapter 18 - Infrared spectroscopy (FINGERPRINT REGION), pp 156-158

Link: https://wikieducator.org/File:Chapter-

18 Infrared spectroscopy (FINGERPRINT REGION) pp 156-158.pdf

Pub Date: Dec 17, 2021

Chapter 19 - Infrared spectroscopy (Bond Parameter & Hybridization), pp 159-160 $\,$

Link: https://wikieducator.org/File:Chapter-

19 Infrared spectroscopy (Bond Parameter %26 Hybridization) pp 159-160.pdf

Pub Date: Dec 25, 2021

Chapter 20 - Infrared spectroscopy (Identifying Compounds or ligands), pp 161-173

Link: https://wikieducator.org/File:Chapter-

20 Infrared spectroscopy (Identifying Compounds or ligands) pp 161-173.pdf

Pub Date: Dec 30, 2021

Coordination Chemistry

Chapter 21 - Coordination Chemistry (Introduction), pp 174-178

Link: https://wikieducator.org/File:Chapter-

21 Coordination Chemistry (Introduction) pp 174-178.pdf

Pub Date: Jan 12, 2022

Chapter 22 - Coordination Chemistry (Structural Isomerism), pp 179-187

Link: https://wikieducator.org/File:Chapter 22 -

<u>Coordination Chemistry (Structural Isomerism) pp 179-187.pdf</u>

Pub Date: Jan 19, 2022

Chapter 23 - Coordination Chemistry (Geometrical Isomerism), pp 188-196

Link: https://wikieducator.org/File:Chapter 23 -

Coordination Chemistry (Geometrical Isomerism) pp 188-196.pdf

Pub Date: Jan 25, 2022

Chapter 24 - Coordination Chemistry (Optical isomerism), pp197-203

Link: https://wikieducator.org/File:Chapter-

24 Coordination Chemistry (Optical isomerism) pp197-203.pdf

Pub Date: March 14, 2022

Chapter 25 - Coordination Chemistry (IUPAC Nomenclature), pp 204-208

Link: https://wikieducator.org/File:Chapter-

25 Coordination Chemistry (IUPAC Nomenclature) pp 204-208.pdf

Pub Date: March 19, 2022

Chapter 26 - Coordination Chemistry - Crystal Field Theory (CFT), pp 209-220

Link: https://wikieducator.org/File:Chapter-26_Cordination_Chemistry -

Crystal Field Theory (CFT) pp 209-220.pdf

Pub Date: Sept 05, 2022

File: Chapter-27 Coordination Chemistry - Crystal Field Stabilization Energy (CFSE) pp 221-228

Link: https://wikieducator.org/File:Chapter-27 Coordination Chemistry Crystal Field Stabilization Energy (CFSE) pp 221-228.pdf

Pub Date: Dec 02, 2022

File: Chapter-28 Paper Chromatography-Separation of mixtures of ions (Pb2+ & Ag+) by Paper Chromatographic Technique pp 229-231

Link: https://wikieducator.org/File:Paper Chromatography-
Separation of mixtures of ions (Pb2%2B %26 Ag%2B) by Paper Chromatographic Te

chnique pp 229-231.pdf

Pub Date: Dec 02, 2022

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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 topicspecific 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 Calculator' tool freely accessible online Tools section in the at http://www.minerazzi.com/tools/bond-order/calculator.php. Tools Indexed in the 'City College of New York', US Link: Computational - Chemistry - LibGuides at City College Libraries (cuny.edu).

chem.libretexts.org, University of California, UC DAVIS, USA, Digital Link:

Innovative Time Economic Teaching methodologies indexed in the American Chemical Society's Digital index, USA and also in the 'ChemWiki' by the Prof. Delmar Larsen, Founder and Director of the 'ChemWiki', Department of Chemistry, University of California, USA based upon the work supported by

the National Science Foundation (NSF) under Grant Number 1246120 under the supervision of Prof. Delmar S Larsen, Associate Prof. and Principal Investigator of the 'ChemWiki' Project, University of California, Davis (23rd University as per 2015 World Ranking among top 200 universities). <u>NSF are the funding source for approximately 24 percent of all federally supported basic research conducted by America's colleges and universities.</u>

Digital Links:

1.PREDICTING THE BOND-ORDER OF DIATOMIC SPECIES

https://chem.libretexts.org/Core/Physical and Theoretical Chemistry/Electronic Structure of Atoms and Molecules/Predicting the Bond-Order of Diatomic Species

2.PREDICTING THE HYBRIDIZATION OF SIMPLE MOLECULES

https://chem.libretexts.org/Core/Physical and Theoretical Chemistry/Electronic Structure of Atoms and Molecules/Predicting the Hybridization of Simple Molecules

3.PREDICTING THE HYBRIDIZATION OF HETEROCYCLIC COMPOUNDS

https://chem.libretexts.org/Core/Organic Chemistry/Fundamentals/Bonding in Organic Compounds/Predicting the Hybridization of Heterocyclic Compounds

4.MAGNETIC BEHAVIOR OF DIATOMIC SPECIES

https://chem.libretexts.org/Core/Physical and Theoretical Chemistry/Electronic Structure of Atoms and Molecules/Magnetic Behavior of Diatomic Species

5.CALCULATING OF Π -BONDS, Σ -BONDS, SINGLE AND DOUBLE BONDS IN STRAIGHT CHAIN AND CYCLOALKENE SYSTEMS

https://chem.libretexts.org/Core/Organic Chemistry/Fundamentals/Bonding in Organic Compounds/Calculating of % CF%80-bonds%2C %CF%83-Bonds%2C single and double bonds in Straight Chain and Cycloalkene Systems 6.IDENTIFING AROMATIC AND ANTI-AROMATIC COMPOUNDS

https://chem.libretexts.org/Core/Organic Chemistry/Fundamentals/Bonding in Organic Compounds/Identifing
Aromatic and Anti-Aromatic Compounds

7.PREDICTING THE BOND-ORDER OF OXIDES BASED ACID RADICALS

https://chem.libretexts.org/Core/Physical and Theoretical Chemistry/Electronic Structure of Atoms and Molecules/Predicting the Bond-Order of Oxides based Acid Radicals

8.EVALUATING SPIN MULTIPLICITY

https://chem.libretexts.org/Core/Physical and Theoretical Chemistry/Electronic Structure of Atoms and Molecules/Evaluating Spin Multiplicity

9. Prediction of Aromatic, Anti Aromatic and Non Aromatic Character of Heterocyclic Compounds along with their Omission Behavior- Innovative Mnemonics

https://chem.libretexts.org/Core/Physical and Theoretical Chemistry/Electronic Structure of Atoms and Molecul es/Prediction of Aromatic%2C Anti Aromatic and Non Aromatic Character of Heterocyclic Compounds along with their Omission Behavior- Innovative Mnemonics

BOOK PUBLISHED:

1.TITLE: 'Innovative Mnemonics in Chemical Education: A Handbook for Classroom Lectures'

Publication Date: 11Sept 2019 (Online) & 1st Nov-2019 (Hard Back)

Publisher: Cambridge Scholars Publishing, Lady Stephenson Library, Newcastle upon

Tyne, NE6 2PA, UK, ISBN (10): 1-5275-3922-9; ISBN (13): 978-1-5275-3922-8

Link: https://www.cambridgescholars.com/innovative-mnemonics-in-chemical-education. Indexed:

British Library Cataloguing in Publication Data. A catalogue record for this book is available from the British Library.

Link

https://bllo1.primo.exlibrisgroup.com/discovery/search?query=any,contains,Arijit%2oDas%2oInnovative%2oMnemonics%2oin%2oChemical%2oEducation:%2oA%2oHandbook%2ofor%2oClassroom%2oLectures&tab=LibraryCatalog&search scope=Not BL Suppress&vid=44BL INST:BLLo1&lang=en&offset=0

Stanford University, US: https://searchworks.stanford.edu/view/14279378
2. TITLE: 'Mixed Ligand complexes of 1,1-dithiolates and Nitrogen Donors', Publication Year: 2016.

Publisher: Lambert Academic Publishing (LAP), Germany,

ISBN-978-3-659-90980-1

American Chemical Society (ACS) Conferred Recognition to Dr. Arijit Das's Invented 38 Formulae in the ACS Spring-2023

Entitled 'Formulae Based Time Economic Mnemonics in Chemical Education' in the ACS conference 'ACS Spring 2023' on March 26, 2023. The virtual presentation of Dr. Das in the ACS Spring 2023 indexed in the ACS scimeetings (Link: https://doi.org/10.1021/scimeetings.3c00021).



THIS IS TO CERTIFY THAT

Arijit Das

ATTENDED

ACS SPRING 2023

AND PRESENTED THE FOLLOWING PAPER

Title: CHED 3807510: Formulae based time economic mnemonics in chemical education

Session: General Posters

Location: Virtual Only Virtual Session

Date and Time: 3/26/2023 12:00:00 PM

Presentation Type Poster - Virtual

Copyright office, Govt. of India, New Delhi:

On 7th Aug 2018, 13th Nov 2019, Nov 22, 2023, and Dec 06 2023 Copyright office, Govt. of India, New Delhi gave me three copyright registration for innovational research work in field of Chemical Education on my all invented 34 formulae bearing Registration number L-77140/2018, L-86934/2019, L-136608/2023, and L-137193/2023 respectively.







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Dated: 13/11/2019

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- 4. Class and description of the work
- 5. Title of the work
- 6. Language of the work
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- 8. Whether the work is published or unpublished
- Year and country of first publication and name, address and nationality of the publisher
- Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers
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- Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright
- 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).
- 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.
- If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details.
- 16. If the work is an 'Artistic work', capable of being registered as a design." the Designs Act 2000 whether it has been applied to an artificial of the dustrial process and if yes, the number of times

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L-86934/2019

DR ARUIT DAS, DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE (BBMC), AGARTALA, TRIPURA (W), TRIPURA, INDIA, PIN: 799004 799004 INDIAN

- OWNER
- : LITERARY/ DRAMATIC WORK
 - LONE PAIR ELECTRON DISCRIMINATE HYBRIDIZATION WITH AROMATIC AND ANTI AROMATIC BEHAVIOR OF HETEROCYCLIC COMPOUNDS INNOVATIVE MYEMONICS
 - ENGLISH

DR ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE (BBMC), AGARTALA, TRIPURA (W), TRIPURA, INDIA, PIN: 799004 -799004 INDIAN

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- NEWARK, DE, UNITED STATES: US

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الاس اف دی انتیابیکچولبرایرنیگورنمورنده به با نام الاستان ال	LITERARY DRAMATIC WORK IN THIS WORK, FORMULAE BASED MNEMONICS BY USING THE CLASSIFICATION OF NEGATIVE CHARGE LOCALIZED OR DELOCALIZED HAVE BEEN HIGHLIGHTED BY INNOVATIVE AND TIME ECONOMIC WAYTHROUGH INTRODUCING 03 FORMULAE
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8. Spin which is a unique of a	ল সাধা চহুৱৰ, হণ্ডৱ দৰ্শৰ, ৩১%৯৪/ ©20৯৪ চি৪%৯৯ চি৯৯৪৯৪৯.৫ PUBLISHED বিপিন্ত, নান্তৰ ব্যৱসাধ, চিমা ভি দিয়েইৰ্ড্ডেফেন্ট্ৰিটা চিমা চিমা চিমা চিমা চিমা চিমা চিমা চিম
9. प्रथम प्रकाशन का वर्ष और देश तथा प्रकाशक का नाम, पता और राष्ट्रीयता : Year and country fifts publication and name, address and	2021 USA SCIENCE AND EDUCATION PUBLISHING , 10 CHESWOLD BLVD.
nationality of the publisher नबां बिसंथान , भारत सरकार, बाहिक संपदा कार्यालय, भारत सरकार, Intellectual Pr	ID, NEWARK, DE, 19713, UNITED STATES
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11. कृति में प्रतिलिप्यधिकार सित विभिन्न अधिकारों के स्वामियों के नाम, पते और : राष्ट्रीयताएं और समनुदेशन और अनुक्रासियों के विवरण के साथ प्रत्येक के अधिकार का विस्तार, यदि कोई हो! Names, addresses and nationallities of the owners of various rights comprising the copyright in the work and the extent of rights held	DR ARUIT DAS, DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE, COLLEGE STREET, AGARTALA, WEST TRIPURA, TRIPURA, INDIA-799004 INDIAN
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14. चिंद कृति एक 'कलात्मक कृति' है जो किसी भी माल या सेवाओं के संबंध में व्ययोग की जाती है या उपयोग किए जाने में सबभ है. तो आबेदन में प्रतिक्रिप्तिक्षिकोर अधिनियम, 1957 की धारा 45 की उप-धारा (f) के प्राच्यान के अनुसार क्याचार कि अतिस्दार से प्रमाणन शामिल होना बाहिए। 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	प्राप्ति भारत सरकार, مَنْ اَ مُنْلِيکُووْلُ بِرَابِرِنِّی اَفْس، حکومت بند اَ مُنْلِیکُووْلُ بِرابِرِنِّی اَفْس، حکومت بند اَ مُنْلِیکُووْلُ بِرابِرِنِّی اَفْس، حکومت بند اَ مُنْلِیکُو اَلَّا اِللَّهِ اَلَّا اِللَّهِ اَلَّالَ اِللَّهِ اَلَّهُ اَلَّهُ اَ اَلْالِیَّالَ اِللَّهُ اَلَّالِیَّالَ اِللَّهُ اَلَّالِیَّالَ اِللَّهُ اللَّهُ اللَّ
the provision to Sub-Section (f) of Section 45 of the Copyright Act, 1995. (1995)	के निवार एडडेंव, इच्छे निवरंत, खंडाबन खंडाबाट काराजा कार्याचारा कार्याचार कार्याचारा कार्याचारा कार्याचारा कार्याचारा कार्याचारा क
16. मदि कृति एक 'कलात्मक कृति' है, जो डिजाइन अधिनियम 2000 के तहत : एक डिजाइन के रूप में पंजीकृत होने में सक्षम है, तो क्या यह औद्योगिक फ्रिकिया के माध्यम से किसी बस्तु पर प्रयुक्त की गई है और यदि हाँ, तो इसे कितनी बार पुनरुरुपादित किया गया है? 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 though an industrial process and, if yes, the number of times	दा चा कार्यात्नय, भारत सरकार, ଚୌଦ୍ଧିକ ସମ୍ପଦ କାର୍ଯ୍ୟାଳୟ, ଭାରତ ସରକାର, فس انشورانه ملکیت جو دفتر، هندستان جی حکومت ,அரசு.
बोहित सम्पत्ति a it is reproduced. रकार अवस्थित है है। प्रिति सरकार वी प्रिति कोई हो/Remarks, if any नि , भारत सरकार, वी	ी సంపత్తి కార్యాలయము, భారత ప్రభుత్వము, 87.171111 (११)मासर्स ख्रि.१९२० वर्गानय, भारत सरकार, Intellectual Property Office, Government of India
विद्याल अभ्यति बायरी संस्था/Diary Number: विद्याल 26817/2023-CO/L	क्षक मन्नम कार्यालय, जावण मत्रकाव, यग्निहेर सन्धु रक्षिण, कार्यालय स्वार प्रमुखक सन्दर्भ सामग्री कार्यालय सम्बन्ध
आवेदन की तिथि/Date of Application: 07/10/2023	அத்து அலுவலகம் Registrar of Copyrights
انوال الاس بي دي بيسينگوشرشرشتول سي ميرين المان الاس دي المان الاس	The same of the sa







perty Office. Copyrights ndia.



गौद्धिक्षंप्रधानुंबार्यालयः, लारतसर्वा**प्रतिलिप्यधिकार कार्यालयः, भारत सरकार**ा Copyright Office, Government Of India , विपन्न मंपत्री एवउन, उपन

05907	G2098 67K9.3 699D9P9.0. 0099990 K99699, बौद्धिक संपद	ा चा कार्यालय, भारत सरकार, ६०।६० ०१० दिनांक/Dated:06/12/2023 ि. जो
رنونث	पंजीकरण संख्या/Registration Number	\mathbf{L} -137193/2023 حكومة دفتر، هندستان جي حكومة
सम्पत्ति व	तार्यालयं, भारत सरकार, انٹلیکچوٹل پراپرٹی آفس، حکومت بند आवेदक का नाम, पता तथा राष्ट्रीयता सुरात समुद्रम सरकार बोटिक संगर्भ क	ి సంపత్తి కార్యాలయము, భారత ప్రభుత్వము, శోనెక్కౌ 🖰 🖼 🖼 🛱 🕏 🖰
সম্পত্তি সম্পত্তি	Name, address and nationality of the applicant सरकार, बाह्निक संपर्धा के कार्यालय, ভाৰত চৰকাৰ, बाह्निक संपर्धा दफ्तर, भारत सरकार, (वॉ	DR ARIJIT DAS, DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE, COLLEGE STREET, AGARTALA, WEST TRIPURA, TRIPURA, INDIA-799004 INDIAN
सपत्ता का 3. विपित्र में	कृति के प्रतिलिप्यधिकार में आबेदक के हित की प्रकृति Nature of the applicant's interest in the copyright of the work	സ്വര്ത്ത് കാര്യാലയം, ഭാരത സർക്കാർ, बाह्निक सपदा कायालय, भा ഗ [്] 06औ३औं ८ १७३७औ३, बौद्धिक संपदा चा कार्यालय, भारत सरकार, 6लेंबिक वर्
ان جي - ان جي - ان جي - ان جي -	कृति का वर्ग और वर्णन का अधिकेद्रिक्ष कि वर्गन कि अधिकेद्रिक्ष कि वर्गन कि अधिकेद्रिक्ष कि अधिकेद्र कि अधिकेद्रिक्ष कि अधिकेद्रिक्ष कि अधिकेद्रिक कि अधिकेद्र	LITERARY DRAMATIC WORK THIS WORK FOCUSED IUPAC NOMENCLATURE OF HIGHER ALKANES 11C TO 90C THROUGH THE PREDICTION OF IUPAC WORD ROOT BY INNOVATIVE WAY TO MAKE THE CONCEPT SIMPLER, TIME ECONOMIC AND INTERESTING.
e0, ආ	कति का शर्मिक Title of the work	IUPAC NOMENCLATURE OF HIGHER ALKANES - INNOVATIVE MNEMONICS
नपदा ₆ का कार, ६६	ਗਿਆ की मून सरकार, ਬੀਪਕ ਸੰਪਤੀ ਦਫਤਰ, ਭਾਰਤ ਸਰਕਾਰ. 05%67 G208 कृति की मार्थ Language of the work ଭାରତ ପରକାର, ਪੂੰਡੀ ਦੀ ਦਿਨਾਂ ਹੈ।	ENGLISH 0 003000 இ.ம். இஇ300 (203600), बौद्धिक संपदा चा कार्याल أفس أف دى انثيلي அறிவுசார் சொத்து அலுவலகம், இந்தி
್ನಾಕ್ಸ್ ಯಮು, कार, Int	रचयिता का नाम, पता और राष्ट्रीयता तथा यदि रचयिता की मृत्यु हो गई है. तो मृत्यु की तिथि Name, address and nationality of the author and if the author is deceased, date of his decease	DR ARUIT DAS, DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE, COLLEGE STREET, AGARTALA, WEST TRIPURA, TRIPURA, INDIA-799004 INDIAN
,ভারত : 8. ലയം, গ	कृति प्रकाशित है या अप्रकाशित Whether the work is published or unpublished	ना सम्बन्धार, બૌદ્ધિકસંપદાનુંકાર્યાલય, ભારતસરકા <mark>ર, ભા</mark> જવાી ക ભા ળ Published Published Published
(0 المراق) (4 هـ	प्रथम प्रकाशन का वर्ष और देश तथा प्रकाशक का नाम, पता और राष्ट्रीयता Year and country of first publication and name, address and nationality of the publisher	2021 USA WORLD JOURNAL OF CHEMICAL EDUCATION, SCIENCE AND EDUCATION PUBLISHING, 10 CHESWOLD BLVD., 1D, NEWARK, DE, 19713, UNITED STATES
10.	बाद के प्रकाशनों के वर्ष और देश, यदि कोई हों, और प्रकाशकों के नाम, पते : और राष्ट्रीयताएँ Years and countries of subsequent publications, if any, and names,	perty Office, Government of India, त्वीिक्षक अस्थाखिब कार्यालय, जार NA प्रयोद्धेह स्थेष्ठ हथेरि, क्वाउंड राइन्टर, बीब्दिक संपत्ती कार्यालय, मारत सरक
	addresses and nationalities of the publishers	२००७६०२०, बाद्धिक संपदा कायालय, भारत संस्कार, घायव मयडा स्टड्ड, उप त चा कार्यालय भारत सरकार कोठिन वक्षत नार्वपानव जानत वन्नात . जो
ارنمنٹ برنمنٹ सम्पत्ति व ह°ए४	कृति में प्रतिलिप्पधिकार सहित विभिन्न अधिकारों के स्वामियों के नाम, पते और : शङ्गीयताएं और समयुदेशन और अनुकृतियों के विवरण के साध प्रत्येक के अधिकार का विस्तार, यदि कोई हो। 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	DR ARIJIT DAS, DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE, COLLEGE STREET, AGARTALA, WEST TRIPURA, TRIPURA, INDIA-799004 INDIAN
जन्माखः पंपनीका	'any पानव, जन्ज वनकान, बाह्यक सपदा दफ्तर, भारत सरकार, ह्या। र्यानय भ्रापन सरकार की दिकांग्रहानंकार्यालय भारतसञ्जय क्यालवारीक	खुक जन्नम कार्यानय, जावण जवकाव, क्षण्यू के खुत कक्षण, क्षण्य कार्यानय भा
ਜੇਪਾਰ12: ਜ਼ੌਧਿਕ ਸੰਪ 1. ଭାରତ	अन्य व्यक्तियों के नाम, पते और राष्ट्रीयताएं, यदि कोई हों, जो प्रतिशिव्यधिकार : बाले अधिकारों को समनुदेशित करने या अनुक्कष्ति देने के लिए अधिकृत हों Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright	மக்று இது இது இது இது இது இது இது இது இது இத
ு13.) ரால் Governi eರಿ, ಭಾರ	यदि कृति एक 'कलात्मक कृति' है, तो कृति पर अधिकार रखने वाले व्यक्ति का : नाम, पता और राष्ट्रीयता सहित मूल कृति का स्थान। (एक वास्तुशित्प कृति कं मामले में कृति पूरी होने का वर्ष मी दिवाया जाना वाहिए) 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	N.A. اتلیکچوتل پراپرٹی. నుంపత్తి కార్యాలయము, భారత ప్రభుత్వవ , भारत सरकार, बौद्धिक संपदा कार्यालय, भारत सरकार, Intellectual Prope संपदा दफ्तर, भारत सरकार, (बौद्धिक সম্পদ कार्यालय,ভाরত সরকার, బోర్డి కెય, ભારતસરકાર, ബൗദ്ധിക സ്വത്ത് കാര്യാലയം, ഭാരത സർക്കാ
नपदा कार कार 14 ,6	completion of the work should also be shown). बढ़ कृति एक 'कलात्मक कृति' है जो किसी भी माल या सेवाओं के संबंध में उपयोग की जाती है या उपयोग किए जाने में सक्षम है, तो आवेदन में	98 6283.2 69\$\$13999.0, 083990 كا 135699, बाद्धिक संपदा चा कायाल . يَفْسُ آف دي. அறிவுசார் சொத்து அலுவலகம், இந்தி المُعْرِينِّ الْمُعْلِينِ الْمُعْلِينِ الْمُعْلِينِ الْمُعْلِينِ الْمُعْلِينِ الْمُعْلِينِ الْمُعْلِينِ الْمُعْلِينِ
ಯಮು, कार, Int ,ভারত :	प्रतिशिष्यविकार अधिनियम, 1957 की धारा 45 की उप-धारा () के प्राच्यान के अनुसार व्याप्य, टीक र जिन्दर से प्रमाणन शामिल होना चाहिए। 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.	हि प्रहार प्रतिकार अर्थ क्षेत्रकार प्रमुक्त हो प्रमुक्त कार्य कार्याल है प्रहार कार्याल है हि प्रहार कार्याल है हि कि स्वार कार्याल है कि स्वार कार्याल है कि स्वार कार्याल है कि स्वार कार्य कार्याल है कि स्वार कार्य
عاصة الم المرابع المرابع	यदि कृति एक 'कलात्मक कृति' है, तो क्या यह डिजाइन अधिनियम 2000 के :ा अंतर्गत पंजीकृत है? यदि हा, तो विवरण दें। If the work is an 'Artistic work', whether it is registered under the	ा भपना स्टेडन, अन्तर भवनन, ७७४७म ७८८७८ ०л४७.४ ठ४४५४५००००००००००००००००००००००००००००००००
थान 16. भ बौद्धिक पदानुंडाय 05887	यदि कृति एक 'कलात्मक कृति' है, जो बिजाइन अधिनियम 2000 के तहत : एक बिजाइन के रूप में पर्जाफ़्त होने में सक्षम है, तो क्या यह औद्योगिक प्रक्रिया के माध्यम से किसी बस्तु पर प्रवृत्तक की गई है और यदि हाँ, तो इसे कितनी बार पुनरुत्पादित किया गया है? 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 though an industrial process and ,if yes ,the number of times it is reproduced.	pkfly Office. Government of India, (বौদ্ধিক সম্পত্তিৰ কাৰ্যালয়, ভা బౌద్ధిక ఆస్తి కబోలి, భారత సేకాకార, बौध्दिक संपत्ती कार्यालय, भारत सरक పెండితువంది, बौद्धिक संपदा कार्यालय, भारत सरकार, घँपिव मैंपडी ਦਫਤਰ, ਭਾ ता चा कार्यालय, भारत सरकार, 6లోతోఖ దిగ్గిరి ఖటర్జ్ బుద్దరి చిద్దలు లే இந்திய அரசு, حكومت அரசு, ముద్దు ముద్దిలు అట్టుకులు
सम्प्री7.व	टिप्पणी, यदि कोई हो/Remarks, if any	్ సంపత్తి కార్యాలయము, భారత ప్రభుత్వము, శోబోదా ౧౯౫ేసే టెద్రకేరే
F°E'6	डायरी संख्या/Diary Number: 26820/2023-CO/L	यालय, भारत सरकार, Intellectual Property Office, Government of Ind
	आवेदन की तिथि/Date of Application: 07/10/2023	्रिक সম্পদ कार्यालय, जांत्रज जतकात, ध्वेते छुडे छुडे दक्षरी, ध्वारंड रहित कार्यालय भा

ெற்ற பெற்ற விழக்கள் Registrar of Copyrights

सरकार सामन मा प्राप्ति की तिथि/Date of Receipt: 07/10/2023

. அறிவுசார் சொத்து அலுவலகப் ما القس آف دی انٹیلیکچولیرایرٹیگورنمنٹ آف انڈیا ,அறிவுசார் சொத்து அலுவலகப்

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

International Media: USA News CORP Published NEWS -

Link: <u>USA NEWS CORP</u> <u>Dr. Arijit Das from India wins World Championship</u> - 2018 in Chemical Education (Innovative Mnemonics) out of 86 countries

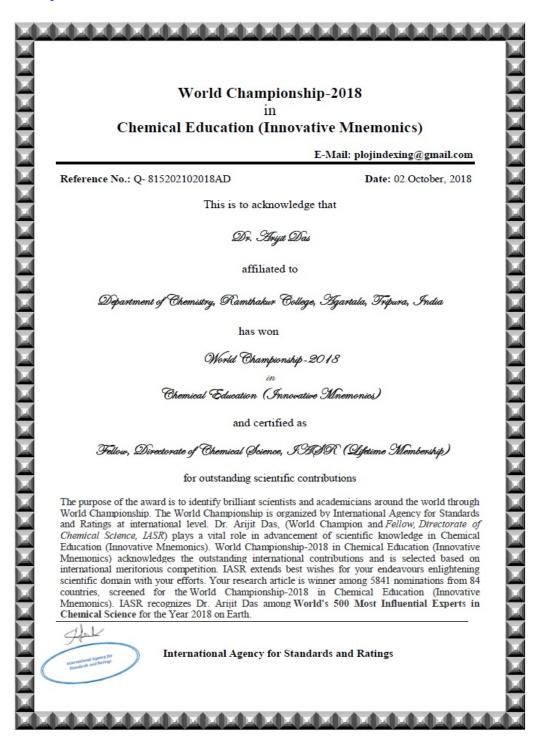
World Champion Dr. Arijit Das is most important asset for India in Chemical Education (Innovative Mnemonics) India in Chemical Education (Innovative Mnemonics), recognized by International Agency for Standards and Ratings. World Champion Dr. Arijit Das is now recognized as Father of modern Chemical Education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

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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 SOCITEY

Aug 21 (1 day ago)

to me

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

Sun, Aug 12, 2018 at 12:22 PM

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

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 <rmm@iiserkol.ac.in> To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

Sun, Aug 12, 2018 at 6:05 PM

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:

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

Tue, Aug 7, 2018 at 8:59 PM

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

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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 Arijitt Please go ahead Best wises 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

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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 Alternate e-mail: nilashisnandi@rediffmail.com;

nilashisnandi@gmail.com

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

M: 9433056943 (India: +91)

[Quoted text hidden]

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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.

Delua Jarse

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

1. Jorg armstru

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.

Gombeherjer

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 Email

: +91-(0)40-2301-2460 : skdas@uohvd.ac.in

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.

Prof. Samar K. Das School of Chemistry University of Hyderat ad 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:rknath1995@gmail.com

To Date:05.11.2015

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

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,

Leek

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@redffmail.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.

Nilechis Nandi

'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

Place: Hyderabad, India August 07, 2019

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 Cambridge Scholars Publishing Lady Stephenson Library Newcastle-upon-Tyne NE6 2PA

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

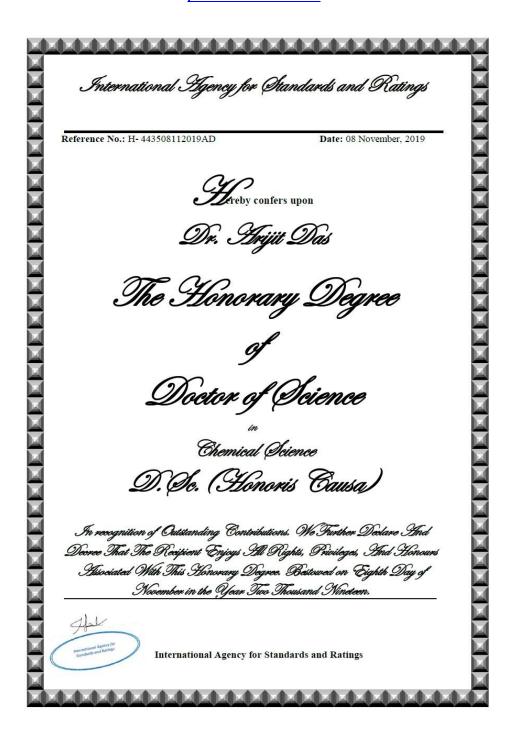
Homedwords,

Cambridge Scholars Publishing



Dr. Arijit Das conferred with Honorary Degree of Doctor of Science for Outstanding Scientific Contribution in Chemical Science from the IASR

Link: https://sites.google.com/site/honorarydegreeacademics/list-of-highest-qualifications-after-phd-admission-for-dsc



Cover Page of the Published Book from the Cambridge Scholars, England, UK Nov 01, 2019

Link: https://www.cambridgescholars.com/innovative-mnemonics-in-chemical-education



https://www.cambridgescholars.com/innovative-mnemonics-in-chemical-education

DR. ARIJIT DAS, IQAC Member, Tripura University, INDIA

(Duration two (02) yrs: May 2020-May 2022)

(Link:

त्रिपुरा विश्वविद्यालयः TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय / A Central University) सूर्यमणिनगर, अगरतला / Suryamaninagar, Agartala त्रिपुरा(प.)/Tripura(W.), पिन/PIN – 799022, भारत/INDIA



दूरभाष / Phone: (0381) 237 9003

237 4803

फैक्स / Fax: (0381) 237 4802/3

Date: 01.05.2020

ई-मेल / E-Mail: registrar@tripurauniv.in वेबसाइट / Website : www.tripurauniv.in

No.F.TU/IQAC/02/2013

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	- Member
	(to be nominated)	
7.	Prof. B.C. Tripathy, Dept. of Mathematics, TU	- Director cum
		Member Secretary
		(Dr. K.B. Jamatia)
		Registrar (i/c)
T	o	
A	ll members of the committee	
010	y to:	
op,	 The Head/Head (i/c), Department of, T circulate the Notification among the faculty members/staff/students. All Officers of the University Sri Suman Das, Sr. Technical Assistant, T.U. for uploading the Notifical Assistant, T.U. 	.U. with a request to
	4. P.S. to the Vice-Chancellor, T.U. for kind information of Hon'ble Vice	

DR. ARIJIT DAS, Convener, Integrated M.Sc. (Chemistry), MBB University, Agartala, Tripura, India (av 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,

Chairman

Professor, Deptt. of Chemistry, Tripura University Email: rndp@tripurauniv.in, rndp09@gmail.com

Mobile: 9402137040

2. Dr. Bhabatosh Saha, President,

Member

Tripura Board of Secondary Education

Mobile: 7005889315

3. Dr. Kashinath Das,

Member

Retired Reader

Email: kndbenz@rediffmail.com

Mobile: 9366825921

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

Convener

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.

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, Agartal.
- 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 VDGOOD Professional Association, India, 04th & 05th July

2020, Coimbatore, India



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.

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Bringing ideas into reality......



Certificate

Research Excellence Award 2020

awarded to

Dr. Arijit Das

Ph.D.

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

For the work with following details:

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

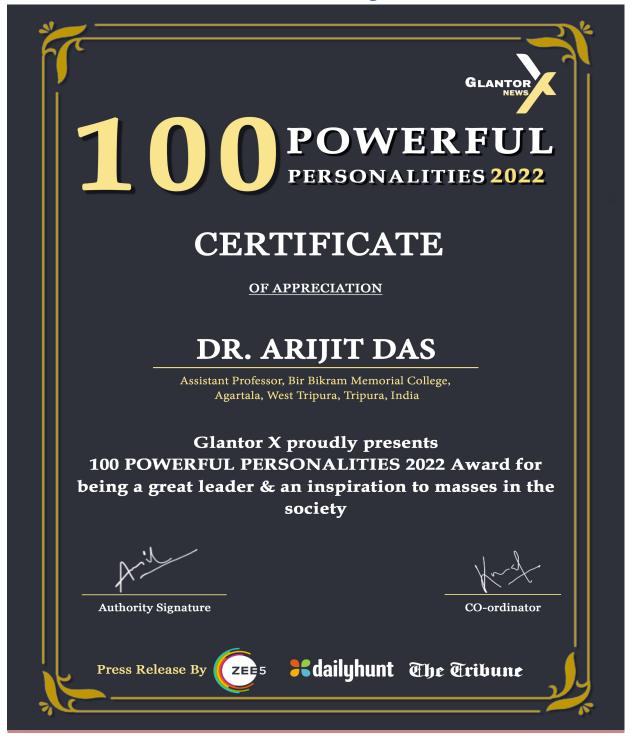
Volume: 512

Month of publication: July

Year : 2020 Page No: 119877 ISSN: 0020-1693

Nanjesh Bennur Director, InSc

100 Powerful Personalities 2022, presented by the **Glantor X, Frontline Media, India Email:** info@glantorx.com



Ten (20) articles and one (01) book related to my Innovative Teaching Methods included in the Stanford University (World Rank 02) till in the field of Chemical Education (UG-PG)

Articles Indexed Links:

Article 1: https://searchworks.stanford.edu/articles/eric ED613509
Article 2: https://searchworks.stanford.edu/articles/eric EJ1266632
Article 4: https://searchworks.stanford.edu/articles/eric ED610991
Article 5: https://searchworks.stanford.edu/articles/eric ED609695
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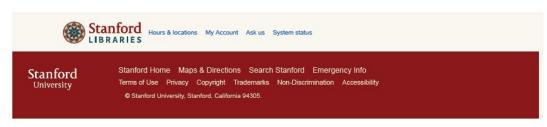
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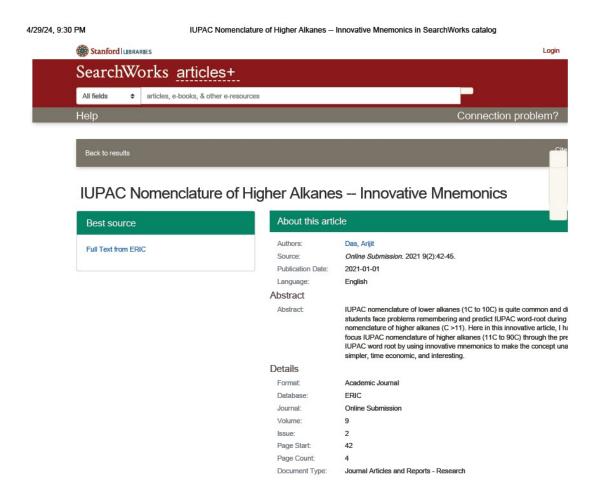
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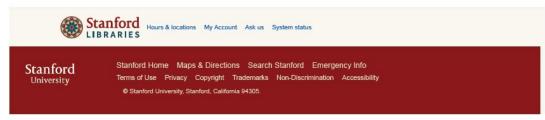




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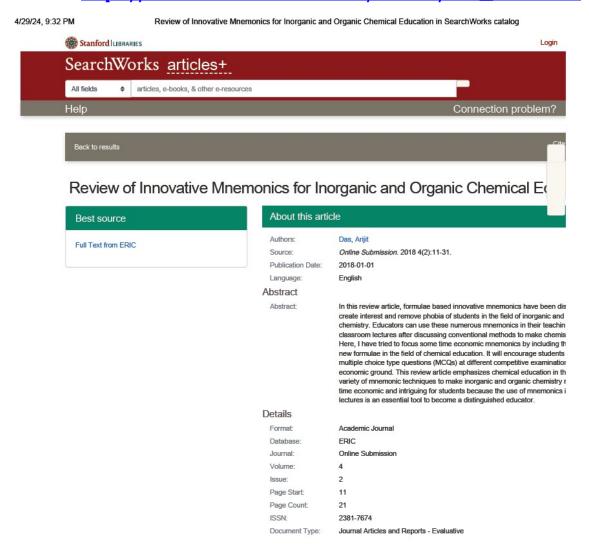
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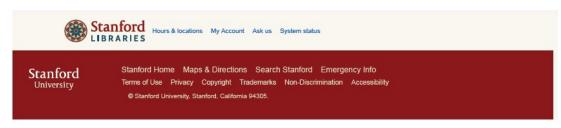
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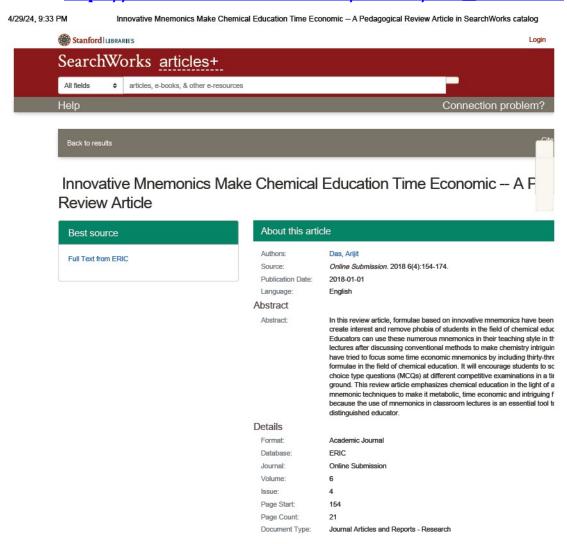
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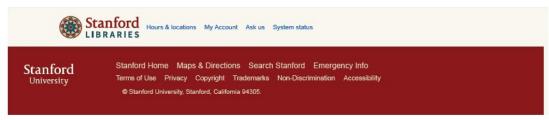




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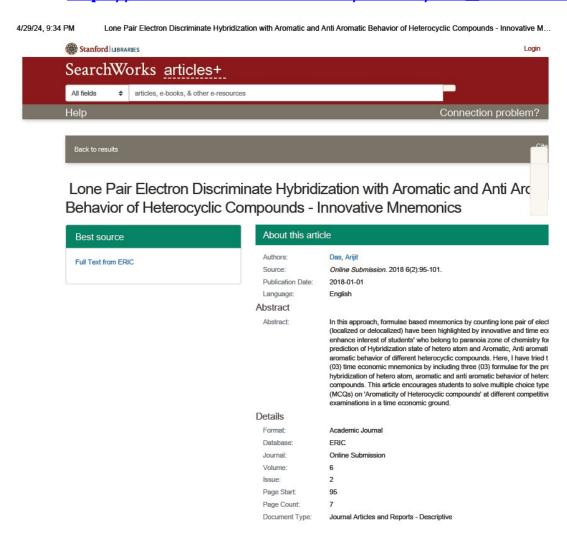
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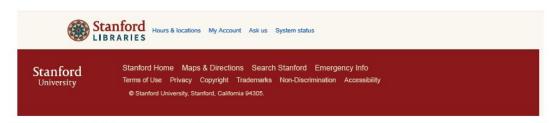




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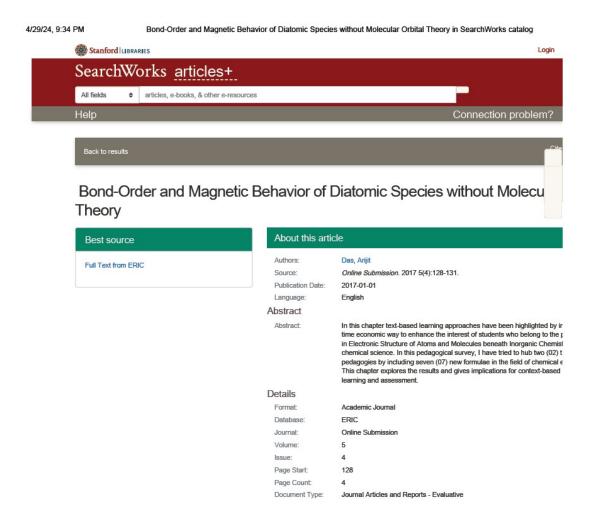
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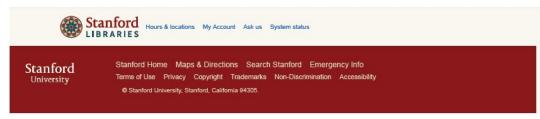




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Adhikari, Suman Pal, Debapriya Paul, Bijaya Sanjeev, R. Jagannadham, V.

Online Submission. 2014 2(1):1-3

Publication Date: 2014-01-01 Language: English

Abstract

Abstract: Prediction of number of [Pi]-bonds

unsaturated open-chain and cyclo chemistry at undergraduate and g regarding different chemical reacti innovative method for easy calcula and triple bonds with the help of co

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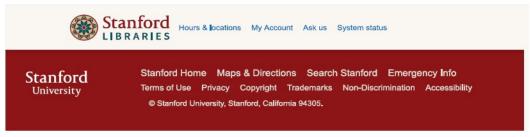
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