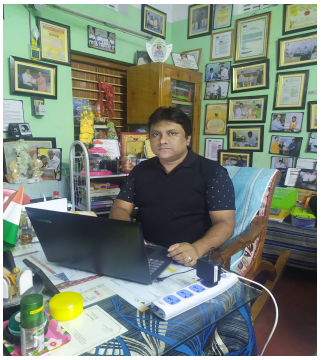

Dr. Arijit Das

CURRICULUM VITAE (CV)

DR. DAS ARIJIT

M.Sc., Ph. D. (Inorganic Chemistry), Fellow (IASR, USA), MACS (INVITED, USA), SFICS, FIAFS, FISC (India), MInSc. (India)
Department of Chemistry, Bir Bikram Memorial College (BBMC) (NAAC Gr-B), Agartala, Tripura (W), Tripura, India, Pin: 799004

Email:
arijitdas78chem@gmail.com

Website:
https://arijitchemistryworld.in/

ORCID ID: https://orcid.org/0000-0001-7409-7237

Youtube Link:
https://www.youtube.com/c/DRARIJITDASINNOVATIVECHEMISTRYWORLD

Formerly:

1. **Head, Dept. of Chemistry, Ramthakur College**, Agartala, Tripura(W), Tripura, India, Pin- 799003 – **For a period of more than 3 Years**.

2. **Head, Dept. of Chemistry, Govt. Degree College, Dharmanagar**, Tripura(N), Tripura, India – **For a period of more than 2 Years**.

3. **Senior Scientific Officer (Chemical Discipline),** Group A Gazetted, **Tripura State Forensic Science Laboratory**, Home Dept., Govt. of Tripura, Tripura, India – **For a period of 09 Months.**

Table of Contents

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)
E-mail: arijitdas78chem@gmail.com
URL: www.arijitchemistryworld.in
Orcid ID: http://orcid.org/0000-0001-7409-7237

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

Languages: English, Hindi, Bengali

Summary of Educational Qualifications

Degree/Experience	Year	Institution	University	Duration
Post-Doctoral Research Experience (Inorganic Chemistry)	2008 –	1. Dept. Of Chemistry, T.U.,(2008-2009) 2. SFSL, Narsingarh, Agt. (2010) 3. Govt. Degree College, Dharmanagar, North Tripura(N). (2011-2013) 4. '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: 'SERB-DST Research Lab', Sponsored by SERB-DST, New Delhi, Govt. of India, at Bir Bikram Memorial College, Agartala, West Tripura, Tripura, India, PIN-799004.
Amount: Rs. 34,37,808/- (Rs. Thirty Four Lakh Thirty Seven Thousand Eight Hundred and Eight Only).
Duration: 03 yrs (March-2022 to March-2025).
Sanctioned No: EEQ/2021/000257 dated Feb 25, 2022.
Number of Project Associate: One (01), Name: Dr. Paresh Debnath, M.Sc., Ph.D., NET (Inorganic Chem.) @ 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.
5. **Prof.(Dr.)Edel Garcia,** (Ex-senior researcher at the Microsoft Innovation Center of Puerto Rico,USA) **Director & Founder of Minerazzi.com, USA, http://scribecontent.com/dr-edel-garcia/.**
6. **Prof. Antonio Frontera,** ***Departament de 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. **Faculty of Chemistry** at Govt aid Entrance Institute **'SCHOOL OF SCIENCE',** Agartala, Tripura, India, (Institute for IIT-JEE/AIEEE/CBSE-PMT/NDA/NERISTWBJEE/TBJEE) – For a period of **02 years 02 months** (w.e.f. 8.01.2001 to 27.03.2003).
2. **Post Graduate Teacher of Chemistry** of Manughat H. S. School, Govt. of Tripura, Tripura, India - **for a period of 3 years 10 months** (w.e.f. 10-01-2006 to 12-11-2009).
3. **Former HOD cum Assistant Professor in Chemistry**, Govt. Degree College, Dharmanagar, Tripura(N), Tripura,India – for a period of more than 02 Years (w.e.f. 10-01-2011 to 03-10-2013).
4. **An External Examiner** in **B.Sc.(TDC -Pass)** Part-I, Part-II & Part-III Practical Examination at Ram Krishna Mahavidhyalay, Kailashahar on April 2011.
5. **Judge in the Sub-division Level Science Seminar-2011**, Dharmanagar, Tripura(N), organized by Dept. of Science & Technology, Tripura on 23-08-2011.
6. **An External Examiner** in **B.Sc.(TDC-Hons)** Part-I, Part-II & Part-III Practical Examination at Ram Krishna Mahavidhyalay, Kailashahar on April 2012.
7. **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. **Assistant Professor . Department of Chemistry, Bir Bikram Memorial College (BBMC), College Street, Agartala, Tripura (W) w.e.f. 13th June 2019 to Present.**
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. Member, IQAC cell, Tripura University (A Central University), Suaryamaninagar,Tripura for two yrs w.e.f. May 2020 to May 2022.

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. Head, Dept. of Chemistry, Govt. Degree College, Dharmanagar, Tripura(N), Tripura,India – for a period of more than 01 Year (**w.e.f. 23/08/2011 to till now**).

10. Senior Scientific Officer (Chemical Discipline) Group A Gazetted, Tripura State Forensic Science Laboratory, Home Dept., Govt. of Tripura, Tripura, India – **For a period of 09 Months** (w.e.f. 26-04-201006-01-2011).

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. **International Conference on Emerging Areas of Chemistry,** organized by Dept. of Chemistry, Tripura University, Tripura, India, Jan (12-14), 2011. (PP)
6. **One Day Awareness Programme On Chemical weapons Convention (CWC),** 13th March-2011, organized by Dept.of Chemistry, Tripura University, Tripura, India.
7. **Career Counselling Workshop,** organized by UGC Cell, Govt. Degree College, Dharmanagar, Tripura North, Tripura, India, Feb (19-21), 2011.
8. **Tripura Science Congress,** organized by Tripura State Council For Science and Technology, Govt. of Tripura, Sept 8-9, 2011(OP).
9. **15th National Conference On 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. **Invited Speaker at District Level Seminar, on the topic 'Vivekananda and Recent India'Town hall, Dharmanagar, organized by Dept. of Higher Education, Govt. of Tripura, 18th Aug-2012.**
11. **National Seminar on Green Chemistry and Nano science Theory and Applications**, Organized by Dept. of Chemistry, NIT, Agartala and Dept. of Chemistry, MBB College, Agartala, Tripura, July (20-21)- 2012 (PP).
12. **50th Annual Convention of Chemists hosted by Department of Chemistry, Panjab University, Chandigarh – 160 014, held during December 04 – 07, 2013, Sponsored by Royal Society of Chemistry, Cambridge, UK, Reliance Industries Limited, Mumbai, Co-Sponsored by DST, New Delhi, CSIR, New Delhi and UGC, New Delhi and Organised by Indian Chemical Society, 92, Acharya Prafulla Chandra Road, Kolkata – 700 009.**
13. **Quality Enhancement in Higher Education in Northeast India: Challenges and Opportunities, National Seminar, 25th & 26th February 2017 organized by IQAC, Govt. Degree College, Dharmanagar, North Tripura sponsored by NAAC.**
14. **Science and Technology for National Development, National Seminar, 23rd March 2017, organized by Govt. Degree College, Dharmanagar, North Tripura in collaboration with ISCA, Kolkata Chapter.**

15. National Seminar On Reaching the Unreached Through Science And Technology Sponsored by ISCA, Dated 10th and 11th April 2018, Govt. Degree College, Dharmanagar, Organized by the ISCA Dharmanagar Chapter & Govt. Degree College, Dharmanagar.
16. International Webinar on "Pedagogical Approaches to Combat Covid-19 Pandemic: Issues & Challenges", Organized by Dept. of Chemistry, Govt. Degree College, Dharmanagar in association with NAAC, Govt. Degree College, Dharmanagar & IGNOU Study Centre (2602), Govt. Degree College, Dharmanagar, July 24 & 25, 2020.
17. One Week Online Workshop On 'GOODS AND SERVICES TAX (GST)', Organised by Ramthakur College, Agartala, Tripura, 22nd to 28th July 2020.
18. ACS Webinars on 'Research Projects: Conceptualisation to Implementation', Aug 4, 2020, organized by the American Chemical Society (ACS), US.
19. ACS Science Talks on 'Investigating Phase Behavior of Suspensions of Nano-Discs Using Rheology', 7 August 2020, organized by the American Chemical Society (ACS), US.
20. ACS Science Talks on 'Exploring the Great Unknown: Characterization of Complex Environmental Mixtures', Aug 12, 2020, organized by the American Chemical Society (ACS), US.
21. ACS Science Talks on 'Organic Chemistry with Proteins Creating Opportunities in Biology and Medicine', Aug 14, 2020, organized by the American Chemical Society (ACS), US.
22. ACS Science Talks on 'I-III-VI2 Nanocrystals for Optoelectronic Devices', Aug 21, 2020, organized by the American Chemical Society (ACS), US.
23. ACS Science Talks on 'Molecular Engineering: Small Peptides Mimicking Proteins', Aug 26, 2020, organized by the American Chemical Society (ACS), US.
24. ACS Science Talks on 'Unravelling Tiny Monstrous Organic Aerosols: Key to Achieve Blue Skies and Human Health', Aug 28, 2020, organized by the American Chemical Society (ACS), US.
25. National Webinar, on 'National Education Policy-2020', Aug 20-21, 2020 organized by Bir Bikram Memorial College (BBMC), Agartala, Tripura, India.
26. ACS Webinars on 'Adapting Well Known Chromatographic Techniques for the Analysis of Biomolecules', September 01, 2020, organized by the American Chemical Society (ACS), US.
27. ACS Science Talks on 'Reversible Chemical Tools to Capture Life in Action', September 04, 2020, organized by the American Chemical Society (ACS), US.
28. ACS India Virtual Classroom on 'Résumé Development: Marketing Your Brand for an Industrial Chemistry Position', September 29, 2020, organized by the American Chemical Society (ACS), US.
29. 'Science Connect: Langmuir', 10-12 October 2020, organized by the American Chemical Society (ACS), US.
30. 'DST & ACS Virtual Workshop', 30 October 2020, organized by the Department of Science & Technology, Govt. of India and American Chemical Society (ACS), US.
31. ACS Webinar on 'Managing the Life of an Early Career Researcher', November 11, 2020, organized by the American Chemical Society (ACS), US.
32. ACS Science Talks on 'Ultra-sensitive sensors that can operate in complex environments', 4 November 2020, organized by the American Chemical Society (ACS), US.
33. ACS Science Talks on 'Perceiving and delineating the epigenetic modifications by chromatin readers in human diseases', 6 November 2020, organized by the American Chemical Society (ACS), US.
34. ACS Science Talks on 'Topochemical Azide-Alkyne Cycloaddition (TAAC) reaction for the syntheses of biopolymer mimics', 13 November 2020, organized by the American Chemical Society (ACS), US.
35. ACS Science Talks on 'Oxidative damage in proteins', 22 Jan 2021, organized by the American Chemical Society, US.
36. ACS Science Talks on 'Covalent Organic Frameworks and the Morphology [0-1-2-3] Landscape', 29 Jan 2021, organized by the American Chemical Society (ACS), US.
37. ACS Science Talks on 'Multimetallic Nanocrystals by Design', 19 Feb 2021, organized by the American Chemical Society, US.
38. ACS Science Talks on 'Designing a Green Chemistry Future', 26 March 2021, organized by the American Chemical Society (ACS), US.
39. ACS Science Talks on 'Materials Innovation for Better Living', 16 April 2021, organized by the American Chemical Society (ACS), US.
40. ACS Science Talks on 'Dye-Sensitized Electron Transfer', 23 April 2021, organized by the American Chemical Society (ACS), US.
41. ACS Science Talks on 'Utilizing Light for Environmental Applications: Photo(electro)catalysis', 28 May 2021, organized by the American Chemical Society (ACS), US.
42. ACS (American Chemical Society) Science talk in 2021 dated Aug 13, Sept 17, Oct 08, 2021.
43. ACS (American Chemical Society) Seminar dated Oct 18-19, 2021.
44. ACS (American Chemical Society) Science talk in 2022 dated Jan 28 and Sept 16 2022.
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. 'QScience Connect', Qatar, Asia (Since-2013).
6. SAGE, Publication, 2022.

HONORARY DEGREE / FELLOWSHIP/MEMBERSHIP OF PROFESSIONAL BODIES:

1. Honorary Degree of Doctor of Science (D.Sc.) in Chemical Science, Division for Certification and Accreditation, International Agency for Standards and Ratings, US (Nov 8, 2019)
2. Fellow, Directorate of Chemical Science, IASR, USA (Life Time 2nd Oct 2018 -)
3. American Chemical Society (ACS) (Invited,USA)(06-12-2013-)
4.'Indian Chemical Society',92,A.P.C.Road, Kolkata-700009 **– Senior Fellow / 7158 (2010 -).**
5.'Indian Academy of Forensic Science', 30, Gorachand Road, Kolkata-700014 – **A-029 (Life Member) (2011-).**
6.'Indian Science Congress Association',14, Dr. 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 Portal	Published Date	Publication Times
1.	'The Telegraph', Calcutta, India (National Daily)	2nd September-2012, 6th March-2013 8th July-2013, 8th December-2013 14th February-2014, 3rd September-2015, 22nd February-2016	07
2.	'The Times of India', Calcutta, India (National Daily)	29th September-2012	01
3.	'United News of India' (UNI), India (National Web)	25th September-2012 23rd November-2019, 10th May 2021	03
4.	'Webindia123', India (National Web)	25th September-2012	01
5.	'NorthEast Calling', India (National Web)	2nd September–2015	01
6.	Zee News	9th July 2021	01
G/T Publications in the English National Daily & News Web Portal: 14 times			

Press Release (2013-2018)

(International News Web Portal)

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

Press Release (2012-2024)

(Bengali & English State Daily)

SL. No.	State Daily	Published Date	Publication Times
1.	'Dainik Sambad', Agartala, Tripura (State Bengali Daily)	6th March-2012, 4th September-2012, 1st April-2013, 26th December-2013, 22nd August-2015, 19th December-2015, 6th April-2018, 9th August-2018, 14th November-2018, 22nd November-2018, 4th September-2019, 9th January-2020, 10th August-2020.	13
2.	'Ajker Fariad', Agartala, Tripura (State Bengali Daily)	4th September-2012, 12th September-2012, 6th March-2013, 8th July-2013 1st September-2015, 17th December-2015, 9th August-2018, 14th November-2018, 22nd November-2018, 24th September-2019, 28th November-2019, 11th August-2020.	12
3.	'Ajkal Tripura', Agartala, Tripura (State Bengali Daily)	15th September-2012, 7th October-2012 9th March-2013, 21st August-2015 17th December-2015.	05
4.	'Tripura Times', Agartala, Tripura (State English Daily)	5th October-2012, 25th November-2018 26th December-2018, 22nd February-2019, 27th July-2019, 20th August-2019, 18th September-2019, 23rd October-2019, 23rd November-2019, 8th August-2020, Oct 16 2022,Nov 08,2023, Feb 23, 2024.	13
5.	'NE Colors', Agartala, Tripura (State English Daily)	8th August-2018, 19th August-2018, 30th September-2018, 12th November-2018, 21st November-2018, 27th December-2018, 22nd February-2019, 27th July-2019, 20th August-2019, 22nd September-2019, 23rd November-2019, 28th November-2019, 11th August-2020, 18th Dec 2020, 15th Oct 2022, Nov 08, 2023	16
6.	'SYANDAN' , Agartala, Tripura (State Bengali Daily)	20th March-2013, 18th August-2018	02
7.	'ICAT- GOVT. OF TRIPURA', (State Govt. Daily)	4th October-2012, 16th 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)	15th September-2012	01
10.	'GENERAL KNOWLEDGE ESSENTIALS', blogspot.in	20th March-2014	01
G/T Publications in the Bengali & English State Daily: 66 times			

Press Release (2012-2024)

(State News Web Portal)

SL. No.	State News Web Portal	Published Date	Publication Times
1.	'Tripurainfo.com', Agartala, Tripura (State News Web Portal)	4th September-2012, 29th September-2012, 8th June-2013, 2nd July-2013, 8th July-2013, 20th July-2013, 5th August-2013, 8th December-2013, 10th December-2013, 21st December-2013, 25th December-2013, 30th January-2014, 14th February-2014, 26th February-2014, 23rd July-2014, 31st July-2014, 10th June-2015, 31st July-2015, 17th August-2015, 25th August-2015, 8th September-2015, 14th October-2015, 22nd February-2016, 17th October-2016, 20th June-2017, 30th August-2017, 20th October-2017, 4th April-2018, 8th April-2018, 7th August-2018, 13th August-2018, 22nd August-2018, 22nd August-2018, 28th September-2018, 9th October-2018, 12th November-2018, 20th November-2018, 25th December-2018, 21st February-2019, 26th July-2019, 19th August-2019, 21st August-2019, 17th September-2019, 24th October-2019, 12th November-2019, 14th November-2019, 23rd November-2019, 6th August-2020, 12th Dec 2020, 14th March 2021, 8th May 2021, 11th July 2021, 14th Oct 2022, 16th Nov 2022, 14th Jan 2023, 26th March 2023, 26th Sept & Nov 07, 2023, Dec 18 2023, Feb 05 2024	60
2.	'newsupdate of tripura.com' (State News Web Portal)	4th April-2015, 31st July-2015, 24th August-2015, 3rd September-2015, 8th September-2015, 7th October-2015, 16th December-2015, 20th June-2017, 17th July-2017, 23rd October-2017, 4th April-2018, 8th August-2018, 12th November-2018, 21st November-2018, 20th August-2019, 22nd September-2019, 26th November-2019, 8th August-2020, 13th Dec 2020	19
G/T Publications in the State News Web Portal: 79 times			

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

Name of News Chanel	Date
1. 'Prime Focus', Agartala, Tripura	05/11/2012
2. 'Head Lines Tripura', Agartala, Tripura	05/11/2012
3. 'Akashbani Kailashahar', Unakoti Tripura	08/11/2012
4. 'Tripura Today','A Govt. of Tripura News Letter, ICAT Dept., Agartala, Tripura.	20/08/2013
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	26th Nov, 27th 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, International Agency for Standards and Ratings (IASR), USA, **Email: plojindexing@gmail.com dated Nov 8, 2019.**

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

5. Award received as ' P M L P M R F '- 1st Fellow 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, **Bangalore, Karnataka, India**, **info@foxclues.com**.
7. **India Prime Author Awards 2021 (Innovation in Chemical Education), organized by the** FoxClues Marketing & Research Organizations, **Bangalore, Karnataka, India**, **info@foxclues.com**.
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. Invitation received from the prestigious 'American Chemical Society'(ESTD-135 yrs ago) on 29-11-2013 via postal mail along with their nomination letter bearing Fellow nominated no FN-12047213025 and Candidate Promo Code 1513JA601 to join the ACS network as a member. I joined to the ACS network as ACS member since 06-12-2013.
2. Felicitated with 'Certificate of Honour' by Honble Chief Minister, Govt. of Tripura, Mr.Manik Sarkar on behalf of tripurainfo.com @ Agartala Town hall, Agartala, Tripura (w), Tripura, India, dated 7th July-2013.
3. Felicitated with 'Certificate of Honour' by Honble Higher Education Minister, Govt. of Tripura, Mr. Anil Sarkar @ Govt. Degree College, Dharmanagar, North Tripura, Tripura, India, dated 27th Sept-2012.
4. Felicitated with 'Certificate of Honour' by Department of Chemistry, Govt. Degree College, Dharmanagar, North Tripura, Tripura, India, dated 12-Sept 2012.
5. Felicitated by TCTA Unit Cell, Department of Chemistry, Govt. Degree College, Dharmanagar, North Tripura, Tripura, India dated 25-Sept 2012.
6. Felicitated with 'Certificate of Honour' by 'Saktisangha Club' , Kailashahar, Unakoti, Tripura, in the Inauguration day of 50th Durga Puja dated 19th – Oct 2012.
7. Felicitated with 'Certificate of Honour' by 'Eikatan Club', Kailashahar, Unakoti, Tripura, in the Inauguration day of Kali Puja dated 12th – Nov 2012.
8. Honour received from the Ramthakur College (NAAC Gr.-B), Agartala, Tripura (West), Tripura, India on behalf of the Principal and other faculty members of the College on dated 01-01-2014 on the innovation of 14 New teaching methodologies including 34 completely new formulae in the Chemistry World and also on the Invitation along with nomination received from the Prestigious American Chemical Society, USA to join the impressive ACS network.
9. Felicitated with 'Certificate of Honour' Organized by Book Fair Committee, Kailashahar on 18-05-2018 for my 'Innovational Research in the Field of Chemistry' - Felicitated by Mr.Nitish De , Convener,Book Fair Committee, Kailashahar – 2018.
10. Felicitated with 'Certificate of Honour' by the College of Astrology, Govt. of Tripura, With the title of 'Jyotish Vigyani Bandhu' at Press Club Agartala dated 11th Aug 2018.
11. Felicitated with 'Certificate of Honour' in the 57th Teacher's day on dated 5th Sept 2018 at Press club, Agartala, Organized by the Lions Club Agartala, Rajdhani (Dist:322G).
12. Invited and Felicitated as a Keynote speaker in the program of 'World Ozone Day-2018' organized by the Department of Science, Technology and Environment, Govt. Of Tripura dated 28th Sept 2018.
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. Invited and Felicitated as a Keynote speaker in the program of 'Talk Show on Innovation in Chemical Education' dated 8th Nov 2018 organized by the Kailashahar Municipal Council and Education Department, Govt. of Tripura at Unakoti Kalakhestra, Kailashahar, Unakoti Tripura.
24. Felicitated with 'Certificate of Honour' in the celebration of 'National Press Day-2018' dated 16th Nov 2018, Organized by the Tripura Journalist Union, Unakoti District Committee, at Unakoti Kalakhestra, Kailashahar, Unakoti Tripura.

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. **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).**
27. **Dr. Das conferred Hony. D.Sc. in Chemical Science from International Agency for Standards and Ratings (IASR) on Nov 8, 2019.**
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):-

1. **"Synthesis and characterization of ionic heterobimetallic complexes of Ni(II), Cu(II), Zn(II) and Cd(II) ions containing nitrogen and sulphur donors."**
M.K.Singh, R.Laskar & **A.Das**, ***Indian Journal of Chemistry,*** **41A, Nov 2002, p 2282. (IF-0.67)**
2. **"Synthesis and structural characterization of mixed ligand complexes of nickel(II) with 1,1-dicyanoethylene-2,2-dithiolate and some nitrogen donors"**
Mahesh K.Singh, **Arijit Das** and Bijaya Paul, ***Trans. Metal Chem,*** **Sept 2005, 30, p 655. (IF-1.7)**
3. **"Synthesis and structural characterization of mixed ligand complexes of nickel(II) with 1-cyano-1- carboethoxyethylene-2,2-dithiolate and some nitrogen donors"**
Mahesh K.Singh, **Arijit Das** and Bijaya Paul, ***Trans Metal Chem,*** **Sept 2007, 32, p 732. (IF-1.997)**
4. **"Synthesis and characterization of mixed ligand complexes of Zn(II) and Cd(II) with 1,1-dicyanoethylene-2,2-dithiolate and some nitrogen donors"**
M. K.Singh, **A. Das**, B. Paul and R. Laskar, ***J.Ind.Chem.Soc.,*** **May 2008, 85, p 485. (IF-0.384)**
5. **"Synthesis and characterization of mixed ligand complexes of Zn(II) and Cd(II) with 1-cyano-1-carboethoxyethylene-2,2-dithiolate and some nitrogen donors"**
M. K. Singh, **A. Das,** B. Paul and R. Laskar, ***J. Ind. Chem. Soc.,*** **Feb 2009, 86,P-143.**
6. **"Synthesis and characterization of mixed ligand complexes of cobalt(II) ion with some nitrogen and sulphur donors"**
Mahesh K. Singh, **Arijit Das** and Bijaya Paul, ***Journal of Co-ordination Chemistry,62(16), Aug 2009,*** **P-2745. (IF-1.932)**

7. **"New Methods For Determination of Hybridisation State For Organic and Inorganic Molecules or ions in a Very Short Time "**
Arijit Das,***Chemistry Today***, **May 2011**,**20(5)**,**p25**,**New Delhi**,**(ISBN-2468)**.
8. **"Synthesis, characterization and Luminescent properties of mixed ligand complexes of nickel (II) with 1,1-dicarboethoxy ethylene-2,2-dithiolate and some nitrogen donors".**
M.K.Singh,**A. Das**, B.Paul, S.Sutradhar and S.Bhattacharjee, ***J.Ind.Chem.Soc.,*****89**,**March 2012**,**P-421.**
9. **"New Methods For IUPAC Nomenclature of Bicyclo and Spiro Compounds"**
Arijit Das, ***Chemistry Today***, **April 2012**, **21(4), p86-87**,**New Delhi**, **(ISBN –2468).**
10. **"Synthesis, Characterization, Luminescent properties and biological activity studies of mixed ligand complexes of nickel (II) with sulphur and some nitrogen donors"**
Mahesh K Singh, Sanjit Sutradhar, Bijaya Paul, D. Barman and **Arijit Das*** ***J. Ind. Chem. Soc.*****, 90**, **Feb - 2013, p-163.**
11. **"New Methods for prediction of bond order of Molecules, ions and radicals without M.O.T. in a very short time"**
Arijit Das and N. Nath, **Chemistry Today, Feb 2013, 22(2), p13-15, New Delhi**, **(ISBN-2468).**
12. **"New Innovative Methods for prediction of hybridization State in a very short time"**
Arijit Das, *Ind. Journal of Applied Research*, 3(7), p594, July-2013,
https://doi.org/10.15373/2249555x/july2013/188 (Crossref Metadata) (IF-0.8215)
13. **"New innovative methods for prediction of bond order of mono and diatomic molecules, ions and also acid radicals in a very short time"**
Arijit Das, *Indian Journal of Applied Research*, 3(7), p114, July-2013,
https://doi.org/10.15373/2249555x/july2013/30 (Crossref Metadata) (IF-0.8215)
14. **"New innovative methods for determination of IUPAC nomenclature of spiro and bicyclo compounds in Organic Chemistry"**
Arijit Das, *Indian Journal of Applied Research*, 3(7), p596, July-2013,
https://doi.org/10.15373/2249555x/july2013/189 (Crossref Metadata) (IF-0.8215)
15. **"New innovative methods for determination of spin multiplicity, spin state and Magnetic properties of diatomic 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)
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
17. **"A rapid and innovative method for the easy prediction of Magnetic behavior of homo and hetero nuclear mono and diatomic molecules or ions without MOT"**
Arijit Das, *Indian Journal of Applied Research*, 3(10), p1, Oct-2013,
https://doi.org/10.15373/2249555x/oct2013/13 (Crossref Metadata) (IF-0.8215)
18. **"New methods for prediction of Bond order of mono and diatomic homo and hetero Nuclear molecules or ions with (1-20)e⁻s and Oxide based acid radicals – An innovative approach"**
Arijit Das, *Ind. J. of Applied Research*, 3(11), pp41-43 Nov-2013, (IF-0.8215)

19. **"Simple Thinking Makes Chemistry Metabolic and Interesting - A Review Article"**
Arijit Das, IOSR-Journal of Applied Chemistry (IOSR-JAC) TIE UP WITH NASA and ANED, e-ISSN: 2278-5736. Volume 6, Issue 4 (Nov. – Dec. 2013), PP 08-15, DOI-10.9790/5736-0640815, USA.

20. **"Simultaneous Equations as a Tool in the Spectrophotometric Analysis of Two Non-interacting Substances in a Binary Mixture: Senior Undergraduate Physical and Physical-Organic Chemistry Laboratory Experiment"**
R. Sanjeev, V. Jagannadham, R. Ravi, R. Veda Vrath, Arijit Das
***Journal of Laboratory Chemical Education*, 2013, 1(4),p59-64,SAP,,USA, DOI: 0.5923/j.jlce.20130104.01**

21. **"New Methods for the prediction of Magnetic Moment of homo and hetero nuclear mono and diatomic molecules or ions without MOT-A Rapid Innovative Approach"**
Arijit Das, *International Journal of Advance Research in Applied Chemistry*, SCI Pub.,01(10), Oct-2013, pp1-7, ISSN(online): 2320-9178, USA.

22. **"Rapid calculation of the number of π-bonds, σ-bonds, single and triple bonds in aliphatic unsaturated open chain and cycloalkynes"**
Arijit Das, Suman Adhikari, Debapriya Paul, Bijaya Paul, V. Jaggnnadam and R.Sanjeev, *World Journal of Chemical Education,* 2014, 2(1),pp1-3, *SEP,* USA, DOI:10.12691/wjce-2-1-1

23. **"Supramolecular Chemistry and its application" (Review Article)**
Suman Adhikari, Arijit Das & Basu Maan Daas, Prayas, *Journal of Multidisciplinary Area,* Vol-01(01), pp 72-78, Feb-2014 Online ISSN 2348-618X.

24. **"Rapid calculation of the number of π-bonds, σ-bonds, single and double bonds in aliphatic unsaturated open chain and cyclic olefinic hydrocarbons"**
Arijit Das, Debapriya Pal, Bijaya Paul, R. Sanjeev and V. Jagannadham, *Education in Chemical Science and Technology,* published by *Ind. Chem. Soc.*, Aug-2014, 2(1), pp 41-46

25. **"Synthesis and Characterization of mixed ligand complexes of Co(II) ion with some N and S donor"** Mahesh K. Singh*, Ranajoy Laskar, Sanjit Sutradhar, Bijaya Paul,S.Bhattacharjee and **Arijit Das*, *IOSR Journal of Applied Chemistry (IOSR-JAC) e-ISSN: 2278-5736.Volume 7, Issue 4 (1), (Apr. 2014), PP 24-29,* DOI: 10.9790/5736-07412429, ANED DDL(American National Engineering Database Digital Data link) no: 23.5736/iosr-jac-E07412429**

26. **"Innovative And Time Economic Pedagogical Views In Chemical Education - A Review Article"**
Arijit Das, R.Sanjeev and V.Jagannadham, *World Journal of Chemical Education,* 2014, *Vol. 2, No. 3, 29-38,* Science and Education Publishing , USA, DOI:10.12691/wjce-2-3-1.

27. **"Association Behavior of Mono, Di and Tri-hydric Alcohols with Three Carbon Skeleton in a Straight Chain"**
R. Sanjeev, V. Jagannadham, Adam A. Skelton, Arijit Das, *World Journal of Chemical Education,* 2014, *Vol. 2, No. 3, 39-41,* Science and Education Publishing, USA, DOI:10.12691/wjce-2-3-2.

28. **"Time Economic Innovative Methodology on the Prediction of Hybridization State of Heterocyclic Compounds"**
Arijit Das, Bijaya Paul, R.Sanjeev and V.Jagannadham
***IOSR Journal of Applied Chemistry (IOSR-JAC) e-ISSN: 2278-5736.Volume 7, Issue 8 (2), (Aug-2014), PP 38-39,* DOI: 10.9790/5736-07412429,**

29. **"Synthesis, Crystal Structure And Antifungal Activity Studies of a Newly Synthesized Polymeric Mixed Ligand Complex of Zn (II) With 1,1-dithiolate and Nitrogen donors"**
Mahesh Kumar Singh, Sanjit Sutradhar, Bijaya Paul, Suman Adhikari, Raymond J. Butcher, Sandeep Acharya and Arijit Das*
***J.of Co-ordination Chemistry, Taylor & Francis Pub.(London),*Vol.67,No.22,3613–3620, 2014**
http://dx.doi.org/10.1080/00958972.2014.972388 (IF-2.223)

30. **Cd(II) complexation With 1,1-dithiolate and Nitrogen donors: Synthesis, Luminescence, Crystal Structure And Antifungal Activity Study**
Mahesh Kumar Singh, Sanjit Sutradhar, Bijaya Paul, Suman Adhikari, Raymond J. Butcher, Sandeep Acharya and Arijit Das*
J.of Co-ordination Chemistry,* 2015, Vol. 68, No. 8, 1423–1432, *Taylor & Francis Pub.(London)
http://dx.doi.org/10.1080/00958972.2015.1013946

31. **Time Economic Innovative Pedagogies In Chemical Science - A Review Article**
Arijit Das[a*] and Bijaya Paul, *Education in Chemical Science and Technology,* Ind.Chem.Soc., Vol-3, No.1, PP 1-28, Aug-2015.

32. **'HYDROCARBONS PARSER TOOL' Arijit Das,** Edel Garcia, A.l.Malah and K.I.Quach, **Minerazzi.Com**, USA, 24 Aug 2015. **http://www.minerazzi.com/tools/hydrocarbons/parser.php**

33. **Six-coordinate cadmium (II) complex containing a bridging dithiolate ligand: Synthesis, Crystal Structure and Antifungal Activity Study**
Mahesh Kumar Singh, Sanjit Sutradhar, Bijaya Paul, Suman Adhikari, Raymond J. Butcher, Sandeep Acharya and Arijit Das*
***J.of Co-ordination Chemistry, Taylor & Francis Pub.(London),UK* (online published 3rd Nov-2015)**
Volume 69, Issue 1, January 2016, pages 168-175.

34. **Synthesis and Structural Characterization of Mixed Ligand Complexes of Manganese (II) With Some Nitrogen and Sulphur Donors by Magnetic and Spectroscopic Methods**
M.K.Singh, Bijaya Paul , **Arijit Das**, ***IOSR-JAC***, **9**, 2(1),p42-48, Feb-2016

35. **Manganese(II) Complexation with 1,1-dithiolate and Nitrogen donors – Synthesis, magnetic properties and spectroscopic studies**
Mahesh K. Singh, Bijaya Paul and Arijit Das, *IOSR-JAC,* Vol 9, Issue 11(11), p1-7 Nov-2016

36. **Synthesis, TGA, Luminescent and Antifungal Activity Studies of Nickel (II) Complexes of 1,1-dithiolate - Mahesh K. Singh, Sanjit Sutradhar, Arijit Das and Sandeep Acharya, *Asian J. of Chemistry*, Vol 29, No 5, 1023-1028, 2017**

37. **A new Cadmium(II) complex with bridging dithiolate ligand: synthesis, crystal structure and antifungal activity study**
Mahesh Kumar Singh, Sanjit Sutradhar, Bijaya Paul, Suman Adhikari, F.Laskar, Raymond J. Butcher, Sandeep Acharya and Arijit Das*, *Journal of Molecular Structure*, Elsevier Pub., Vol 1139, 5 July 2017, Pages 395–399, https://doi.org/10.1016/j.molstruc.2017.03.073.

38. **Synthesis andStructural characterization of mixed ligand complexes of nickel(II) with 1, 8-diaminonaphthalene and 1-cyano-1-carboethoxyethylene-2,2-dithiolate**
M. K.Singh, Sanjit Sutradhar and Arijit Das, J. of the Indian Chem. Soc., pp 497-502, May 2017.

39. **Bond-order and Magnetic Behavior of Diatomic Species without Molecular Orbital Theory Arijit Das, *World Journal of Chemical Education*, Book Chapter, vol. 5, no. 4, 19th June 2017, pp 128-131, doi:10.12691/wjce-5-4-2.**

40. **Chemical Bonding: Time Economic Innovative Pedagogies - A Review Article**
Arijit Das, *Global Journal of Science Frontier Research Chemistry* (GJSFR B), Vol 17, Issue 2 (1), 28th Nov 2017, pp 1-16, doi:10.17406/GJSFR

41. **Mixed-ligand complexes of zinc(II) with 1,1-dicyanoethylene-2,2-dithiolate and N-donor ligands: A combined experimental and theoretical study**
Arijit Das *et al*. *Journal of Molecular Structure*, Elsevier, 1164, **July 2018**, pp 334-343, **https://doi.org/10.1016/j.molstruc.2018.03.073.**

42. **Time Economic Innovative Mnemonics In Chemical Education - A Review Article**
Arijit Das, *International Journal of Physics & Chemistry Education* (Eurasian Journal of Physics and Chemistry Education - EJPCE), 10(1), June 2018, pp 27-40, (https://doi.org/10.12973/ijpce/81589)

43. **Lone Pair Electron Discriminate Hybridization with Aromatic and Anti Aromatic behavior of Heterocyclic Compounds - Innovative Mnemonics**
Arijit Das, *World Journal of Chemical Education*, vol. 6, no. 2, 4th April 2018, pp95-101, DOI: 10.12691/wjce-6-2-4.

44. **Time Economic Innovative Mnemonics in Chemical Education - A Review Article**
Arijit Das, *American Journal of Chemistry and Applications*, Open science, 5(1), pp 19-32, 2018.

45. **Lone Pair of Electrons Discriminate Hybridization with Aromaticity in the Heterocyclic Compounds - Innovative Mnemonics**
Arijit Das, *World Journal of Chemical Education*, vol. 6, no. 3, 27th April 2018, pp107-112, DOI: 10.12691/wjce-6-3-1.

46. **Review of Innovative Mnemonics for Inorganic and Organic Chemical Education**
Arijit Das, *Chemistry Journal*, published by the American Institute of Science(AIS), Vol. 4, No. 2, 2018, pp. 11-31

47. **INNOVATIVE MNEMONICS IN CHEMICAL EDUCATION: REVIEW ARTICLE**
Arijit Das, *African Journal of Chemical Education* (AJCE), *AJCE, 2018, 8(2), pp144-189,* July 2018 Issue, *ISSN 2227-5835*

48. **Innovative Mnemonics Make Chemical Education Time Economic – A Pedagogical Review Article**
Special Issue "Teaching Science in the 21st Century", Arijit Das, *World Journal of Chemical Education*, vol. 6, no. 4, pp154-174, 25th Sept 2018 DOI:10.12691/wjce-6-4-2.

49. **'Bond Order Tool' Arijit Das,** Edel Garcia, A.l.Malah and K.I.Quach, **Minerazzi.Com**, USA, 20 Dec 2018, http://www.minerazzi.com/tools/bond-order/calculator.php.

50. **'Modern Educational Tools', Arijit Das**, ***TPSC Interview Guide Book***, Book Chapter, ***Tripurainfo.com*, Nov 2019, pp 308-313**.

51. **'Predicting the hybridization state: a comparative study between conventional and innovative formulae' Arijit Das, *Journal of Education and Learning (EduLearn)*, Vol. 14, No. 2, May 2020, pp. 272-278**, ISSN: 2089-9823, **Published by the Universitas Ahmad Dahlan (UAD) *in collaboration with* Institute of Advanced Engineering and Science (IAES), Indonesia,**
DOI: http://dx.doi.org/10.11591/edulearn.v14i2.14078.

52. **'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'**, Suman Adhikari, Tirtha Bhattacharjee, Priyatosh Nath, **Arijit Das**, Jerry P. Jasinski, Raymond J. Butcher, Debasish Maiti, ***Inorganica Chimica Acta*, 512 (2020), pp 119877,** Available **online 11 July 2020, doi: https://doi.org/10.1016/j.ica.2020.119877.**

53. **'On the supramolecular properties of neutral, anionic and cationic cadmium complexes harvested from dithiolate–polyamine binary ligand systems'**, Suman Adhikari, Tirtha Bhattacharjee, **Arijit Das,** Subhadip Roy, Constantin Gabriel Daniliuc, Jan K. Zaręba, Antonio Bauzá g and Antonio Frontera, ***CrystEngComm*, Royal Society of Chemistry, October 2020, DOI: 10.1039/d0ce01233e.**

54. **IUPAC Nomenclature of Higher Alkanes – Innovative Mnemonics, (SCOPUS Indexed).**
Arijit Das, *World Journal of Chemical Education*, Vol. 9, No. 2, pp 42-45, 2021

55. **Classification of Negative Charge Discriminate Hybridization with Aromatic and Anti-aromatic Behavior of Organic Compounds - Innovative Mnemonics (SCOPUS Indexed).**
Arijit Das, *World Journal of Chemical Education*, Vol. 9, No. 2, pp 57-63, 2021

56. **Exploring dithiolate-amine binary ligand systems for the supramolecular assemblies of Ni(II) coordination compounds: Crystal structures, theoretical studies, cytotoxicity studies, and molecular docking studies**
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57. **Mixed Ligand Complexes of Cobalt (II) – Synthesis, Reactivity, Physico-chemical and Spectroscopic studies, ARIJIT DAS,** PARESH DEBNATH, BIJAYA PAUL, KARTICK LAL BHOWMIK, ABHIJIT BHATTACHARYA, and BANTI GANGULY, ***Asian Journal of Chemistry***, 2023, **35(4),** pp 910-916, https://doi.org/10.14233/ajchem.2023.27479 **(SCOPUS Indexed).**

58. Metal Ions Separation Via Paper Chromatography: Enhanced Methods Using Eluting Solutions. **Arijit Das**, Digvijoya Sarmaa, Paresh Debnath and Bijaya Paul, *World Journal of Chemical Education*. **Nov 2023;** 11(4):134-140. doi: 10.12691/wjce-11-4-2 (**SCOPUS Indexed**).

59. Cd(II) and Zn(II) complexes with 2-mercaptopyridine: Synthesis, crystal structure, Hirshfeld surface analysis, luminescent properties, aggregation behaviours, current-voltage characteristic and antibacterial assay, Arijit Das, Syed Arshad Hussain, Hritinava Banik, Debasish Maiti, Tamanna Aktar, Bijaya Paul, Pratima Debnath, Lesław Sieron, Abhijit Bhattacharya, Kartick Lal Bhowmik , Waldemar Maniukiewicz, Paresh Debnath, Polyhedron (Elsevier), 247, 11674, **2024**, https://doi.org/10.1016/j.poly.2023.116747.

60. Metal-Based Drugs in Cancer Therapy, Sourav Nath, Abhijit Datta, **Arijit Das** and Suman Adhikari, *Int. J. Exp. Res. Rev.*, Vol. 37: 159-173 (2024), DOI: https://doi.org/10.52756/ijerr.2024.v37spl.014, International Academic Publishing House (IAPH).

61. Multifunctional Transition Metal Complexes: Design, Synthesis, Luminescent Features, Electrical Behaviour, Nanostructure Morphology and Bioactive Properties with 1,1- Dicyanoethylene-2,2-dithiolate and p-Phenylenediamine Ligands, **Arijit Das**, Syed Arshad Hussain, Hritinava Banik, Debasish Maiti, Tamanna Aktar, Sandeep Acharya, Paresh Debnath, Asian Journal of Chemistry, Volume 36 (2024). **(Accepted).**

62. Advanced Methods for the Separation and Identification of p and d block elements by Paper Chromatography, Arijit Das, Digvijoya Sarmaa, Rupak Das, Bijaya Paul, Pratima Debnath, Suman Adhikari, Arnab Bhattacharya, and Paresh Debnath, (Book Chapter), "A Basic Handbook of Science, Technology and Innovation for Inclusive Development (Volume-1)", International Academic Publishing House (IAPH) (2024) **(Accepted)**.

63. Separation and Identification of Metal ions by Paper Chromatography: Improved Qualitative Inorganic Analysis, Arijit Das, Paresh Debnath, Digvijoya Sarmaa, Rupak Das 2 , Bijaya Paul 3 and Pratima Debnath, African Journal of Chemical Education (AJCE), Vol. 14, No. 1, July 2024 **(Accepted).**

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1) Stanford University (https://searchworks.stanford.edu/view/14279378)

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4) chem.libretexts.org, University of California, Davis, US (https://chem.libretexts.org/Special:Search?qid=&fpid=230&fpth=&query=Arijit+Das&type=wiki)

5)Indian Chemical Society, A.P.C. Road, Kolkata, India - Aug-2015

6)Mendeley, Elsevier: https://www.mendeley.com/profiles/arijit-das12/

7)SCOPUS : https://www.scopus.com/authid/detail.uri?authorId=55340308600

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Pub Date: May 06, 2021

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

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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

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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_81-91.pdf

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_pp_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:Chapter_12_-_INNOVATIVE_METHODS_FOR_THE_IUPAC_NOMENCLATURE_OF_BICYCLO_AND_SPIRO_COMPOUNDS_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

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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

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

Link: https://wikieducator.org/File:Chapter_22_-_Coordination_Chemistry_(Structural_Isomerism)_pp_179-187.pdf

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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

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1.HYDROCARBONS PARSER TOOL LAUNCHED IN THE USA:

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

This tool parses an input chemical formula and predicts the number and types of chemical bonds present in them with its normal boiling point and few other things. The predicted data can then be comparing with experimental results.The tool works without consulting molecular orbital theory (MOT) or a chemical database. Just enter a set of formulae 'CxHy'.
'Hydrocarbons Parser' tool freely accessible online in the Tools section of Minerazzi at **http://www.minerazzi.com/tools/hydrocarbons/parser.php.**

2.Bond Order Calculator TOOL LAUNCHED IN THE USA:

On 20th Dec-2018, a new and practical applications of **my 04 invented formulae and 01 innovative teaching** time-economic methodologies on 'Calculation of Bond Order without Molecular orbital theory (MOT)' came in the form of a tool namely 'Bond Order Calculator' made by Dr.Edel Garcia, a multidisciplinary scientist and Administrator of Minerazzi.com, Bayamon, Puerto Rico, USA to calculate and discriminate of chemical bonds in hydrocarbons. Dr.Garcia the creator of the Minerazzi Project, which started at the now defunct local Microsoft Innovation Center. Minerazzi (http://www.minerazzi.com) is a platform owned by Dr.Garcia and for building topic-specific search engines on any field or knowledge domain in USA. This tool computes bond orders of diatomic species having up to 20 electrons, without using Molecular Orbital Theory. This software tool is useful for chemistry educators, scholars, and students interested in bond order theory and its applications.**'Bond Order Calculator'** tool freely accessible online in the Tools section of Minerazzi at http://www.minerazzi.com/tools/bond-order/calculator.php. **Tools Indexed in the 'City College of New York',US Link :** Computational - Chemistry - LibGuides at City College Libraries (cuny.edu).

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https://bll01.primo.exlibrisgroup.com/discovery/search?query=any,contains,Arijit%20Das%20Innovative%20Mnemonics%20in%20Chemical%20Education:%20A%20Handbook%20for%20Classroom%20Lectures&tab=LibraryCatalog&search_scope=Not_BL_Suppress&vid=44BL_INST:BLL01&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

LIZ HUH
DIRECTOR, MEETINGS AND EVENTS

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.

Copyright Office
Government of India

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Extracts from the Register of Copyrights

Dated : 07/08/2018

1.	Registration Number	:	L-77140/2018
2.	Name, address and nationality of the applicant	:	DR ARIJIT DAS , ASSISTANT PROFESSOR, DEPT OF CHEMISTRY, RAMTHAKUR COLLEGE, AGARTALA, TRIPURA-799003INDIAN
3.	Nature of the applicant's interest in the copyright of the work	:	OWNER
4.	Class and description of the work	:	LITERARY/ DRAMATIC WORK
5.	Title of the work	:	INNOVATION OF PEDAGOGIES IN THE FILED OF CHEMICAL EDUCATION
6.	Language of the work	:	ENGLISH
7.	Name, address and nationality of the author and if the author is deceased, date of his decease	:	DR ARIJIT DAS , ASSISTANT PROFESSOR, DEPT OF CHEMISTRY, RAMTHAKUR COLLEGE, AGARTALA, TRIPURA -799003INDIAN
8.	Whether the work is published or unpublished	:	PUBLISHED
9.	Year and country of first publication and name, address and nationality of the publisher	:	2013 USASCIENCE AND EDUCATION PUBLISHING - WORLD JOURNAL OF CHEMICAL EDUCATION , SCIENCE AND EDUCATION PUBLISHING ADDRESS: 10 CHESWOLD BLVD , 1D, NEWARK, DE, 19713, UNITED STATES.- 19713USA
10.	Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers	:	2014 USASCIENCE AND EDUCATION PUBLISHING - WORLD JOURNAL OF CHEMICAL EDUCATION , SCIENCE AND EDUCATION PUBLISHING ADDRESS: 10 CHESWOLD BLVD , 1D, NEWARK, DE, 19713, UNITED STATES.-019713-19713USA2013 INDIAINTERNATIONAL ORGANIZATION OF SCIENTIFIC RESEARCH- IOSR JAC , OSR JOURNALS DANSA, GHAZIABAD, UP, PIN: 201015, INDIA-201015INDIAN2017 USAGLOBAL JOURNALS INC. - GLOBAL JOURNAL OF SCIENCE FRONTIER RESEARCH B CHEMISTRY , GLOBAL JOURNALS™ HEADQUARTERS 945TH CONCORD STREETS FRAMINGHAM MASSACHUSETTS PIN: 01701 UNITED STATES OF AMERICA-1701USA2015 INDIAINDIAN CHEMICAL SOCIETY , 92, ACHARYA PRAFULLA CHANDRA ROAD, KOLKATA-700 009, WEST BENGAL, INDIA-700009INDIAN
11.	Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any	:	DR ARIJIT DAS , ASSISTANT PROFESSOR, DEPT OF CHEMISTRY, RAMTHAKUR COLLEGE, AGARTALA, TRIPURA-799003INDIAN
12.	Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright	:	N.A.
13.	If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).	:	N.A.
14.	If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details.	:	N.A.
15.	If the [illegible] 'Artistic work', capable of being registered as a [illegible] esigns Act 2000.whether it has been applied to an [illegible] strial process and ,if yes ,the number of times	:	N.A.
16.		:	

17436/2017-CO/L
06/12/2017
Date 06/12/2017

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DEPUTY REGISTRAR OF COPYRIGHTS

Copyright Office
Government of India

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Extracts from the Register of Copyrights

Dated : 13/11/2019

1.	Registration Number	:	**L-86934/2019**
2.	Name, address and nationality of the applicant	:	DR ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE (BBMC), AGARTALA, TRIPURA (W), TRIPURA, INDIA, PIN: 799004 -799004 INDIAN
3.	Nature of the applicant's interest in the copyright of the work	:	OWNER
4.	Class and description of the work	:	LITERARY/ DRAMATIC WORK
5.	Title of the work	:	LONE PAIR ELECTRON DISCRIMINATE HYBRIDIZATION WITH AROMATIC AND ANTI AROMATIC BEHAVIOR OF HETEROCYCLIC COMPOUNDS - INNOVATIVE MNEMONICS
6.	Language of the work	:	ENGLISH
7.	Name, address and nationality of the author and if the author is deceased, date of his decease	:	DR ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE (BBMC), AGARTALA, TRIPURA (W), TRIPURA, INDIA, PIN: 799004 -799004 INDIAN
8.	Whether the work is published or unpublished	:	PUBLISHED
9.	Year and country of first publication and name, address and nationality of the publisher	:	2018 USA WORLD JOURNAL OF CHEMICAL EDUCATION , SCIENCE AND EDUCATION PUBLISHING, 10 CHESWOLD BLVD., NEWARK, DE, UNITED STATES.- US
10.	Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers	:	2018 USA WORLD JOURNAL OF CHEMICAL EDUCATION , SCIENCE AND EDUCATION PUBLISHING, 10 CHESWOLD BLVD., NEWARK, DE, UNITED STATES- US
11.	Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any	:	DR ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE (BBMC), AGARTALA, TRIPURA (W), TRIPURA, INDIA, PIN: 799004 -799004 INDIAN
12.	Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright	:	N.A.
13.	If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).	:	N.A.
14.	If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (i) of Section 45 of the Copyright Act, 1957.	:	N.A.
15.	If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details.	:	N.A.
16.	If the work is an 'Artistic work', capable of being registered as a design [illegible] the Designs Act 2000 whether it has been applied to an art[illegible]dustrial process and ,if yes ,the number of times	:	N.A.
17.		:	

12880/2019-CO/L

13/08/2019

Da 13/08/2019

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DEPUTY REGISTRAR OF COPYRIGHTS

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Extracts from the Register of Copyrights

प्रतिलिप्यधिकार कार्यालय, भारत सरकार | Copyright Office, Government Of India

दिनांक/Dated:22/11/2023

1.	पंजीकरण संख्या/Registration Number	:	**L-136608/2023**
2.	आवेदक का नाम, पता तथा राष्ट्रीयता Name, address and nationality of the applicant	:	DR ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE, COLLEGE STREET, AGARTALA, WEST TRIPURA, TRIPURA, INDIA-799004 INDIAN
3.	कृति के प्रतिलिप्यधिकार में आवेदक के हित की प्रकृति Nature of the applicant's interest in the copyright of the work	:	OWNER
4.	कृति का वर्ग और वर्णन Class and description of the work	:	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 WAY THROUGH INTRODUCING 03 FORMULAE
5.	कृति का शीर्षक Title of the work	:	CLASSIFICATION OF NEGATIVE CHARGE DISCRIMINATE HYBRIDIZATION WITH AROMATIC AND ANTIAROMATIC BEHAVIOUR OF ORGANIC COMPOUNDS - INNOVATIVE MNEMONICS
6.	कृति की भाषा Language of the work	:	ENGLISH
7.	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 ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE, COLLEGE STREET, AGARTALA, WEST TRIPURA, TRIPURA, INDIA-799004 INDIAN
8.	कृति प्रकाशित है या अप्रकाशित Whether the work is published or unpublished	:	PUBLISHED
9.	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 SCIENCE AND EDUCATION PUBLISHING , 10 CHESWOLD BLVD., 1D, NEWARK, DE, 19713, UNITED STATES.- US
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, addresses and nationalities of the publishers	:	N.A.
11.	कृति में प्रतिलिप्यधिकार सहित विभिन्न अधिकारों के स्वामियों के नाम, पते और राष्ट्रीयताएं और समनुदेशन और अनुज्ञप्तियों के विवरण के साथ 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 any	:	DR ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE, COLLEGE STREET, AGARTALA, WEST TRIPURA, TRIPURA, INDIA-799004 INDIAN
12.	अन्य व्यक्तियों के नाम, पते और राष्ट्रीयताएं, यदि कोई हों, जो प्रतिलिप्यधिकार वाले अधिकारों को समनुदेशित करने या अनुज्ञप्ति देने के लिए अधिकृत हों Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright	:	N.A.
13.	यदि कृति एक 'कलात्मक कृति' है, तो कृति पर अधिकार रखने वाले व्यक्ति का नाम, पता और राष्ट्रीयता सहित मूल कृति का स्थान। (एक वास्तुशिल्प कृति के मामले में कृति पूरी होने का वर्ष भी दिखाया जाना चाहिए) If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).	:	N.A.
14.	यदि 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 प्रतिलिप्यधिकार अधिनियम, 1957 की धारा 45 की उप–धारा (i) के प्रावधान के अनुसार व्यापार चिह्न रजिस्ट्रार 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.	:	N.A.
15.	यदि कृति एक 'कलात्मक कृति' है, तो क्या यह डिजाइन अधिनियम 2000 के अंतर्गत पंजीकृत है? यदि हां, तो विवरण दें। If the work is an 'Artistic work', whether it is registered under the Designs Act 2000, if yes give details.	:	N.A.
16.	यदि 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 प्रक्रिया के माध्यम से किसी वस्तु पर प्रयुक्त 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.	:	N.A.
17.	टिप्पणी, यदि कोई हो/Remarks, if any		

डायरी संख्या/Diary Number: 26817/2023-CO/L

आवेदन की तिथि/Date of Application: 07/10/2023

प्राप्ति की तिथि/Date of Receipt: 07/10/2023

Registrar of Copyrights

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Extracts from the Register of Copyrights

प्रतिलिप्यधिकार कार्यालय, भारत सरकार | Copyright Office, Government Of India

दिनांक/Dated:06/12/2023

1.	पंजीकरण संख्या/Registration Number	:	**L-137193/2023**
2.	आवेदक का नाम, पता तथा राष्ट्रीयता Name, address and nationality of the applicant	:	DR ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE, COLLEGE STREET, AGARTALA, WEST TRIPURA, TRIPURA, INDIA-799004 INDIAN
3.	कृति के प्रतिलिप्यधिकार में आवेदक के हित की प्रकृति Nature of the applicant's interest in the copyright of the work	:	OWNER
4.	कृति का वर्ग और वर्णन Class and description of the work	:	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.
5.	कृति का शीर्षक Title of the work	:	IUPAC NOMENCLATURE OF HIGHER ALKANES - INNOVATIVE MNEMONICS
6.	कृति की भाषा Language of the work	:	ENGLISH
7.	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 ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE, COLLEGE STREET, AGARTALA, WEST TRIPURA, TRIPURA, INDIA-799004 INDIAN
8.	कृति प्रकाशित है या अप्रकाशित Whether the work is published or unpublished	:	PUBLISHED
9.	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.- US
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, addresses and nationalities of the publishers	:	N.A.
11.	कृति में प्रतिलिप्यधिकार सहित विभिन्न अधिकारों के स्वामियों के नाम, पते और राष्ट्रीयताएं और समनुदेशन और अनुज्ञप्तियों के विवरण के साथ 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 any	:	DR ARIJIT DAS , DEPARTMENT OF CHEMISTRY, BIR BIKRAM MEMORIAL COLLEGE, COLLEGE STREET, AGARTALA, WEST TRIPURA, TRIPURA, INDIA-799004 INDIAN
12.	अन्य व्यक्तियों के नाम, पते और राष्ट्रीयताएं, यदि कोई हों, जो प्रतिलिप्यधिकार वाले अधिकारों को समनुदेशित करने या अनुज्ञप्ति देने के लिए अधिकृत हों Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright	:	N.A.
13.	यदि कृति एक 'कलात्मक कृति' है, तो कृति पर अधिकार रखने वाले व्यक्ति का नाम, पता और राष्ट्रीयता सहित मूल कृति का स्थान। (एक वास्तुशिल्प कृति के मामले में कृति पूरी होने का वर्ष भी दिखाया जाना चाहिए) If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).	:	N.A.
14.	यदि 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 प्रतिलिप्यधिकार अधिनियम, 1957 की धारा 45 की उप–धारा (i) के प्रावधान के अनुसार व्यापार चिह्न रजिस्ट्रार 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.	:	N.A.
15.	यदि कृति एक 'कलात्मक कृति' है, तो क्या यह डिजाइन अधिनियम 2000 के अंतर्गत पंजीकृत है? यदि हां, तो विवरण दें। If the work is an 'Artistic work', whether it is registered under the Designs Act 2000, if yes give details.	:	N.A.
16.	यदि 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 प्रक्रिया के माध्यम से किसी वस्तु पर प्रयुक्त 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.	:	N.A.
17.	टिप्पणी, यदि कोई हो/Remarks, if any		

डायरी संख्या/Diary Number: 26820/2023-CO/L

आवेदन की तिथि/Date of Application: 07/10/2023

प्राप्ति की तिथि/Date of Receipt: 07/10/2023

Registrar of Copyrights

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

International Media: USA News CORP Published NEWS -

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

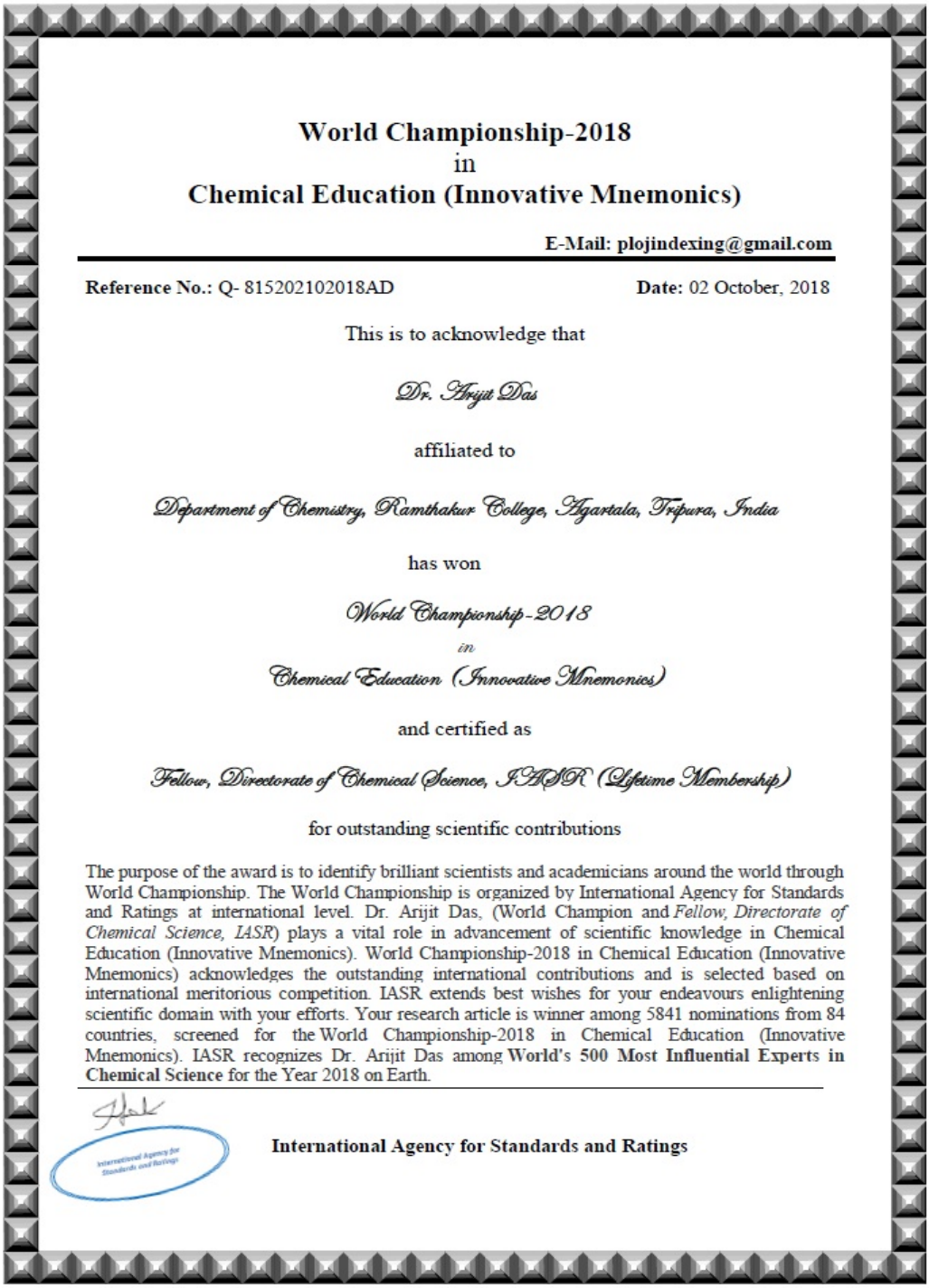
World Champion Dr. Arijit Das is most important asset for India in Chemical Education (Innovative Mnemonics) India in Chemical Education (Innovative Mnemonics), recognized by International Agency for Standards and Ratings. World Champion Dr. Arijit Das is now recognized as Father of modern Chemical Education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

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

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

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

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



World Championship-2018
in
Chemical Education (Innovative Mnemonics)

E-Mail: plojindexing@gmail.com

Reference No.: Q- 815202102018AD **Date:** 02 October, 2018

This is to acknowledge that

Dr. Arijit Das

affiliated to

Department of Chemistry, Ramthakur College, Agartala, Tripura, India

has won

World Championship-2018
in
Chemical Education (Innovative Mnemonics)

and certified as

Fellow, Directorate of Chemical Science, IASR (Lifetime Membership)

for outstanding scientific contributions

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.

International Agency for Standards and Ratings

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…

Gmail 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> Tue, Aug 14, 2018 at 7:39 PM
To: arijitdas78chem@gmail.com

Dear Dr. Das,

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

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

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

Best regards,

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

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

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

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

August 20, 2018

Dear Dr., Arijit Das,

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

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

Best regards,

Cao Cu Giac

From the Indian Chemical Society (ICS):

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

INDIAN CHEMICAL 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):

Gmail 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> Wed, Aug 15, 2018 at 11:36 PM
To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

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:

Gmail DR ARIJIT DAS <arijitdas78chem@gmail.com>

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

samar das <samar439@gmail.com> Sun, Aug 12, 2018 at 12:22 PM
To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

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

Dear Arijit:

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

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

Congratulations again.

All the best.

With best wishes,
Sir
****
Professor Samar K. Das, FASc.
School of Chemistry
University of Hyderabad
Hyderabad - 500046
India

Phone:
Cell: (0)9959425259
+91-40-2313-4853 (work)
+91-40-2301-0536 (residence)

From IIT Kanpur:

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

Gmail 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 <rnm@iiserkol.ac.in> Sun, Aug 12, 2018 at 6:05 PM
To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

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

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

(Sent using a mobile device)
[Quoted text hidden]

From IIT Kharagpur:

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

Gmail DR ARIJIT DAS <arijitdas78chem@gmail.com>

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

Pratim Chattaraj <pratim.chattaraj@gmail.com> Tue, Aug 7, 2018 at 8:59 PM
To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

Congrats !
[Quoted text hidden]

Prof. P. K. Chattaraj, FASc, FNA, FNASc
J. C. Bose National Fellow
Professor, Department of Chemistry
Convener: Centre for Theoretical Studies,Kharagpur local chapter of INSA
Indian Institute of Technology Kharagpur
Kharagpur – 721302. **Email: pratim.chattaraj@gmail.com**

From University of Calcutta:

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

Gmail 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> Wed, Aug 8, 2018 at 10:50 AM
To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

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

Gmail 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> Wed, Aug 8, 2018 at 4:24 PM
Reply-To: Nilashis Nandi <nilashisnandi@yahoo.com>
To: DR ARIJIT DAS <arijitdas78chem@gmail.com>

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

best regards
N. Nandi

Dr. Nilashis Nandi
Professor
Department of Chemistry
University of Kalyani
Kalyani, Nadia, West Bengal, 741235
India
Alternate e-mail: nilashisnandi@rediffmail.com ;
nilashisnandi@gmail.com
Website: https://sites.google.com/site/nilashisnandi/

M: 9433056943 (India: +91)

[Quoted text hidden]

UNIVERSITY OF CALIFORNIA, DAVIS

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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.

Regards,

Delmar Larsen

Letter of Appreciations from Different Eminent Personalities

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

91-9866987955
jagannadham1950@yahoo.com

Editor-in-Chief
World Journal of Chemical Education
(Science & Educational Publishing, USA)
http://www.sciepub.com/journal/WJCE/EditorialBoard#.Ui6C2tI_duI

Professor (Retired)
Department of Chemistry
Osmania University
Hyderabad-500007
India

November 3, 2015

To whomsoever it may concern

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

V. Jagannadham

From:

Prof. G. N. Mukherjee

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

Date: 03-11-2015

To whom it may concern

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

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

Prof. G. N. Mukherjee

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

School of Chemistry
University of Hyderabad
Hyderabad - 500 046
India

Prof. Sa
FASc, FAPAS

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

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

November 04, 2015

Dear Dr. Das,

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

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

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

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

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

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

With best wishes.

Sincerely yours,

S. K. Das

(Samar K. Das) 04/11/2015

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

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

Phone:0381-2379076
Fax: 0381- 2374802
Ph:09436508446
Email: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,

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

TRIPURA UNIVERSITY
(A CENTRAL UNIVERSITY)
Suryamaninagar, Agartala
Tripura
INDIA
PIN - 799130

Phone : (0381) 237 4801
237 5454
237 4805
237 5355
Fax : (0381) 237 4802
237 4807
e-mail : tripurauniversity@rediffmail.com
website : www.tripurauniversity.in

LETTER 0F 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.

16/11/2015

Prof. M. K. Singh
Department of Chemistry
Tripura University
Suryamaninagar-799 022
Tripura West

Dr. M. K. Singh
Professor
Department of Chemistry
Tripura University
Suryamaninagar, Tripura, India.

University of Kalyani
FACULTY OF SCIENCE
Department of Chemistry

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

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

16.11.2015

Dear Dr. Das,

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

Thanking you,
Sincerely yours,

Nilashis Nandi

Nilashis Nandi.

School of Chemistry
University of Hyderabad
Hyderabad - 500 046
India

Prof. Samar K. Das
FASc., FNASc.

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

To whom it may Concern

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

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

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

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

Yours sincerely,

S.K.Das

(Samar Kumar Das)

Place: Hyderabad, India August 07, 2019

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

December 26, 2018

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

RE: Letter of Merit and Appreciation

Dear Professor Das:

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

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

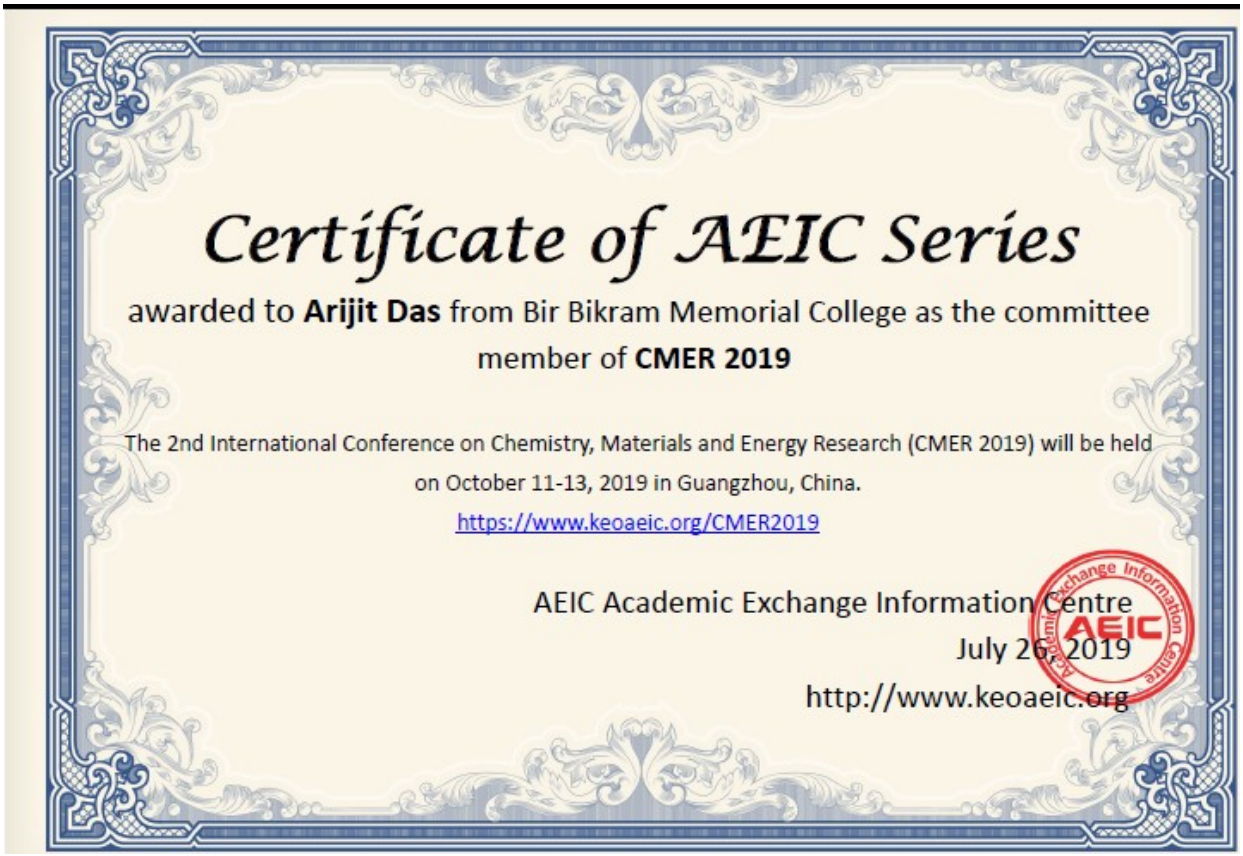
We believe that students who know how to write computer programs for solving chemistry problems are better prepared when taking quantitative courses like analytical chemistry, instrumental analysis, chemometrics, and computational chemistry. They are in general better prepared for multidisciplinary research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

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

Regards

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

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



Certificate of AEIC Series

awarded to **Arijit Das** from Bir Bikram Memorial College as the committee member of **CMER 2019**

The 2nd International Conference on Chemistry, Materials and Energy Research (CMER 2019) will be held on October 11-13, 2019 in Guangzhou, China.

https://www.keoaeic.org/CMER2019

AEIC Academic Exchange Information Centre

July 26, 2019

http://www.keoaeic.org

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Scholars
Publishing

Lady Stephenson Library
Newcastle upon Tyne
NE6 2PA
United Kingdom

admin@cambridgescholars.com
www.cambridgescholars.com

Fax +44 (0)191 265 2056

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,

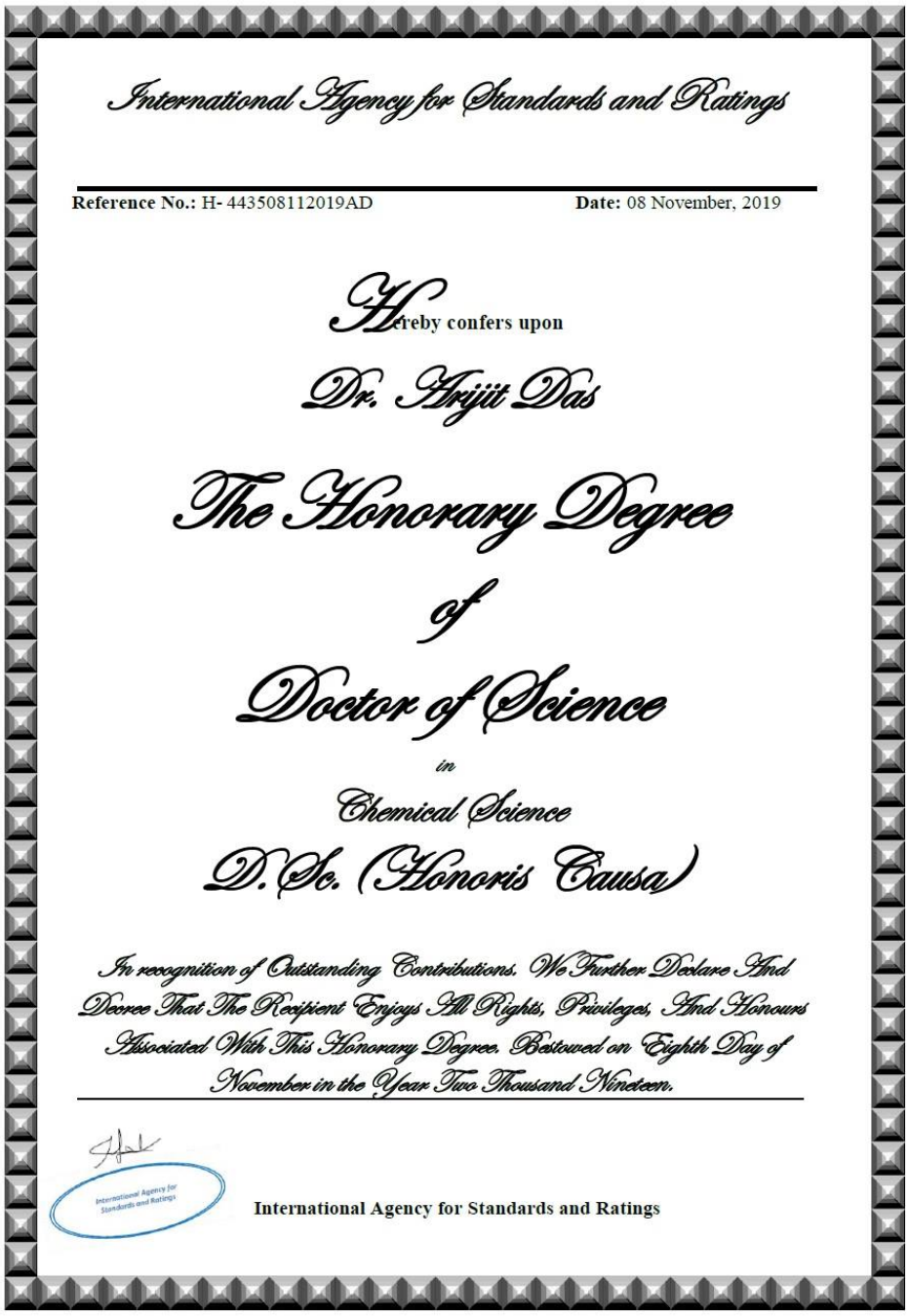
HM Edwards,

Helen Edwards
Commissioning Editor
helen.edwards@cambridgescholars.com

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



International Agency for Standards and Ratings

Reference No.: H- 443508112019AD **Date:** 08 November, 2019

Hereby confers upon

Dr. Arijit Das

The Honorary Degree

of

Doctor of Science

in

Chemical Science

D.Sc. (Honoris Causa)

In recognition of Outstanding Contributions. We Further Declare And Decree That The Recipient Enjoys All Rights, Privileges, And Honours Associated With This Honorary Degree. Bestowed on Eighth Day of November in the Year Two Thousand Nineteen.

International Agency for Standards and Ratings

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

Cambridge Scholars Publishing. Innovative Mnemonics in Chemical Education

Cambridge Scholars Publishing

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HOME / PHYSICAL SCIENCES / INNOVATIVE MNEMONICS IN CHEMICAL EDUCATION

Innovative Mnemonics in Chemical Education
A Handbook for Classroom Lectures
ARIJIT DAS

Innovative Mnemonics in Chemical Education
A Handbook for Classroom Lectures

Author(s):
Arijit Das

RECOMMEND TITLE

Book Description

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

The volume also provides different chemical applications and problems, which will encourage students to solve multiple choice-type questions (MCQs), and highlights some attractive, free educational chemistry tools, which can be used in solving a number of different problems.

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Biography

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

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

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

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No.F.TU/IQAC/02/2013 **Date: 01.05.2020**

NOTIFICATION

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

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   - (e) Dr. B.M. Pandey, Dept. of Law, TU - Member
4. One member from the management.
   Sri M.M. Reang, Joint Registrar (Admin), TU - Member
5. One/two nominees from local societies, students and alumni
   - (a) Dr. Arijit Das, Asst. Prof., Dept. of Chemistry, BBM College, Agt - Member
   - (b) Mr. Subrata Pal, Alumni, Law Department - Member
6. One/two members from employers/Industrialists/Stake holders (to be nominated) - Member
7. Prof. B.C. Tripathy, Dept. of Mathematics, TU - Director cum Member Secretary

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

To
All members of the committee
.....

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

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

MAHARAJA BIR BIKRAM UNIVERSITY
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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, Member
   Deptt. of Chemistry, Maharaja Bir Bikram College
   Email: amiprall963@gmail.com
   Mobile: 9436125541
5. Dr. Arijit Das, Assistant Professor, *Convener*
   Deptt. of Chemistry, Bir Bikram Memorial College
   Email: arijitdas78chem@gmail.com
   Mobile: 9862211165

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.

11/05/2020

(Dr. Sumanta Chakrabarti)
Registrar

To

1. Professor R.N. Dutta Purkayastha, Professor, Deptt. of Chemistry, Tripura University, Suryamaninagar, Agartala.
2. Dr. Bhabatosh Saha, President, Tripura Board of Secondary Education, Agartala.
3. Dr. Kashinath Das, Retired Reader, Agartala.
4. Dr. Asish Mitra, Associate Professor, Deptt. of Chemistry, Maharaja Bir Bikram College, 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.

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Department of Chemistry,
Bir Bikram Memorial College,
Tripura, India.

Mr.M.Dinesh
Association Director
VDGOOD Professional Association, 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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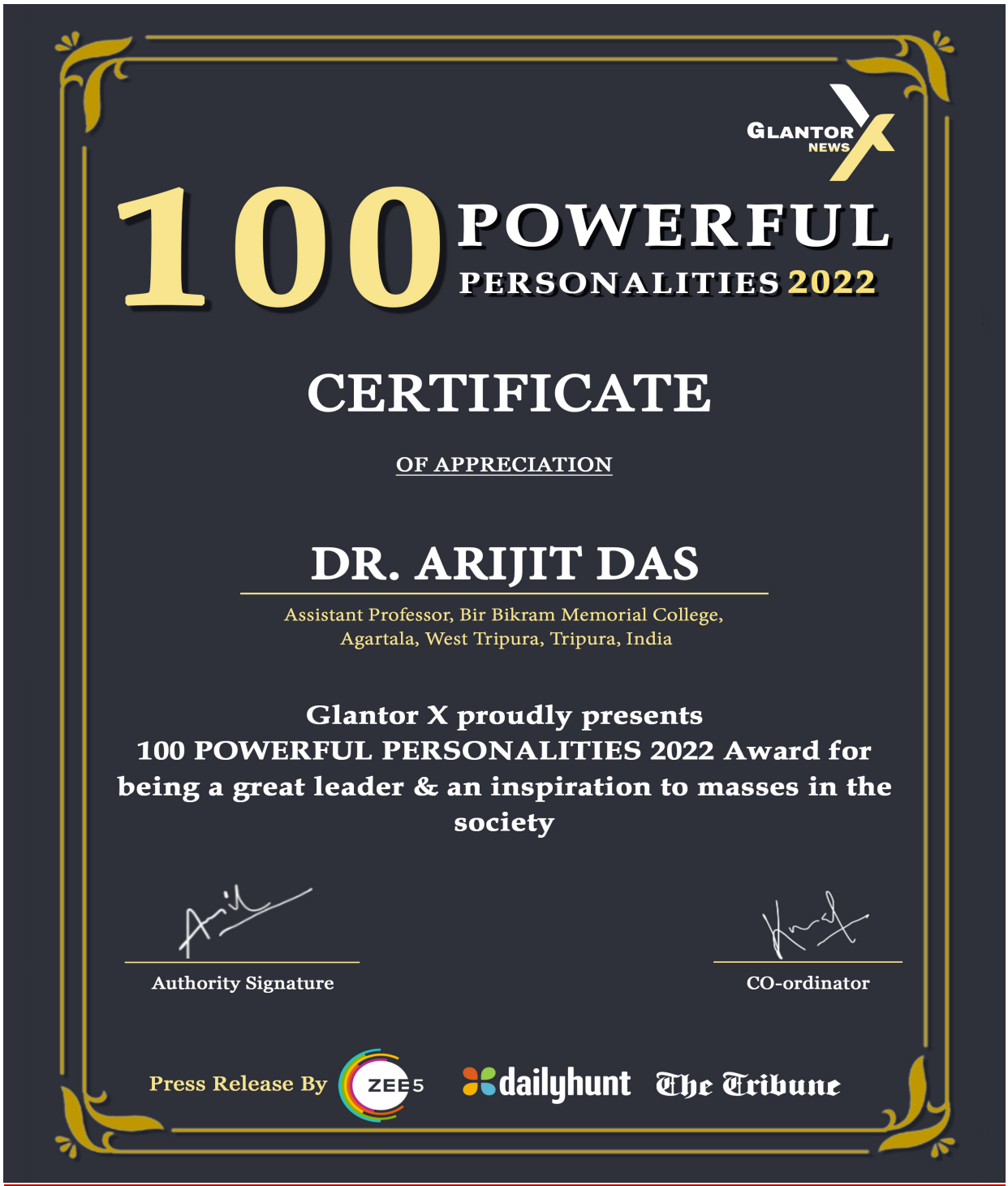

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Classification of Negative Charge Discriminate Hybridization with Aroma
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About this article

Authors: Das, Arijit

Source: *Online Submission*. 2021 9(2):57-63.

Publication Date: 2021-01-01

Language: English

Abstract

Abstract: In this approach, formulae-based mnemonics by using the classification of charge (localized or delocalized) have been highlighted by innovative and economic way to enhance interest of students' who belong to paranoia zor chemistry for the prediction of hybridization state of carbon atom containin charge (one or more) and aromatic, anti-aromatic, non-aromatic behavior organic compounds. Here, I have tried to hub three (03) time economic mr including three (03) formulae for the prediction of hybridization state of carl (containing negative charge), aromatic, anti-aromatic, and non-aromatic be organic compounds. Educators can use these mnemonics in their teaching classroom lectures after discussing conventional methods and its limitatior chemistry intriguing. This article encourages students to solve multiple cho questions (MCQs) on 'Aromaticity of negative charge containing organic c different competitive examinations in a time economic ground.

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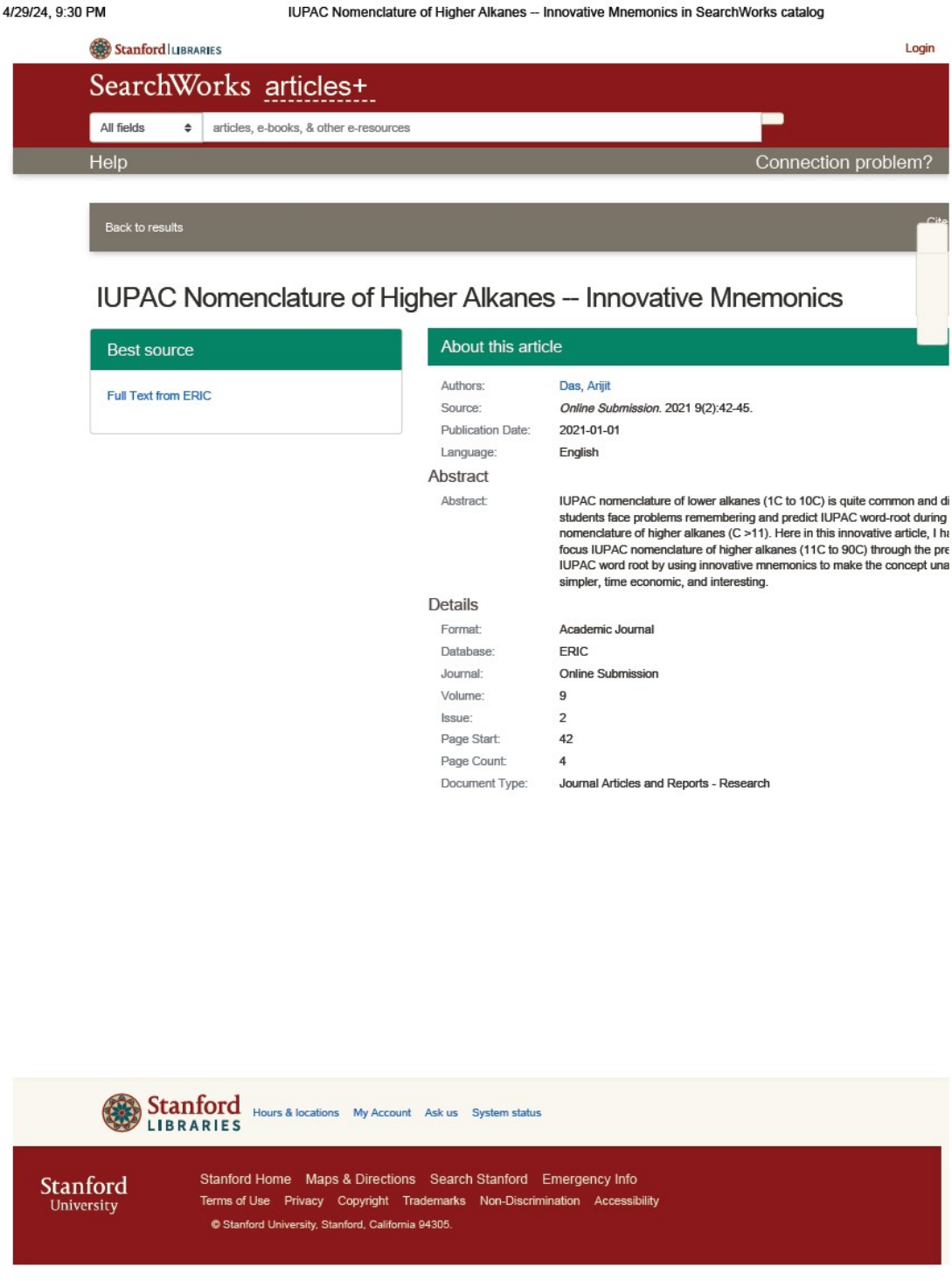

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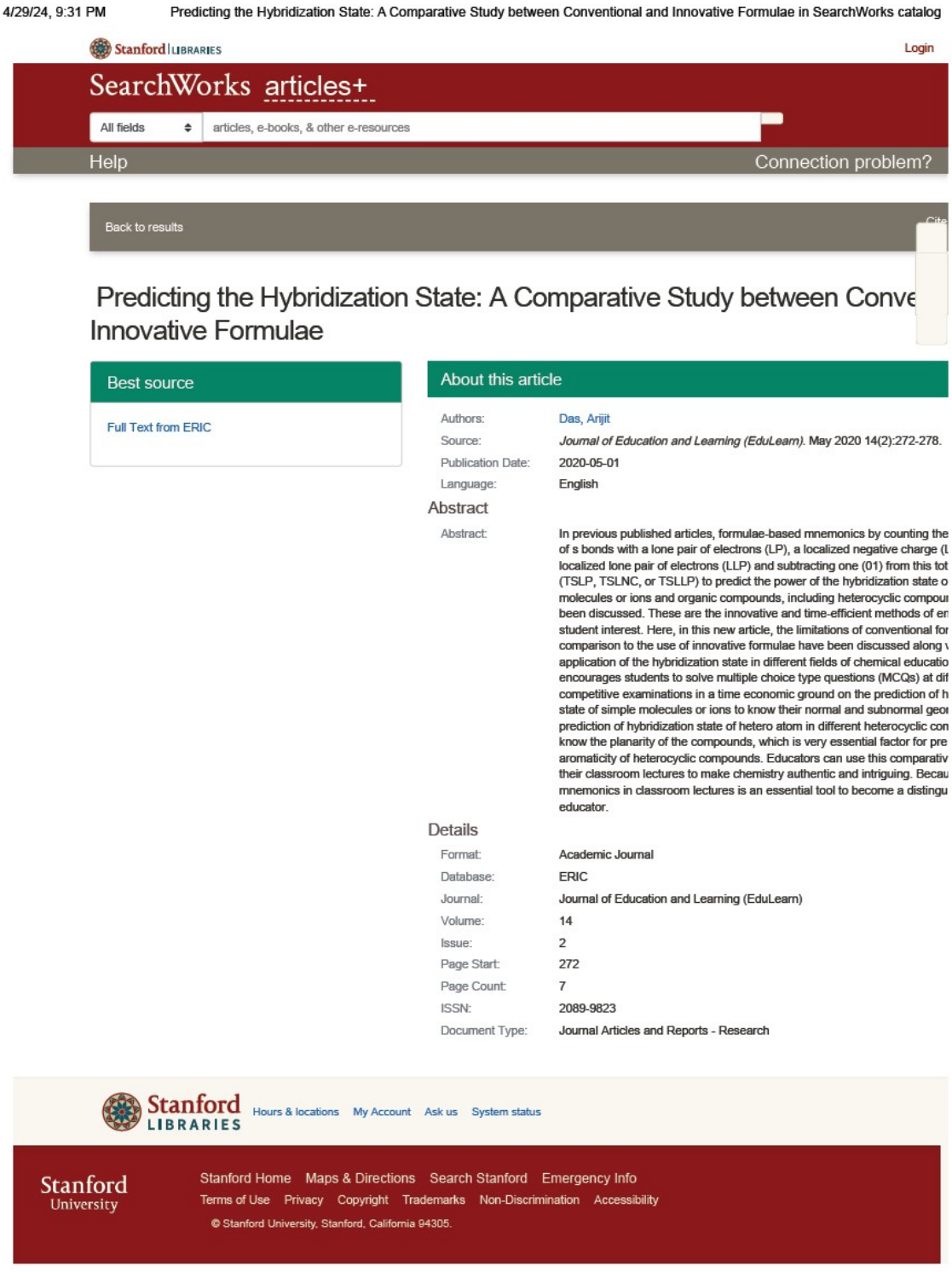

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Predicting the Hybridization State: A Comparative Study between Conve
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About this article

Authors: Das, Arijit

Source: *Journal of Education and Learning (EduLearn)*. May 2020 14(2):272-278.

Publication Date: 2020-05-01

Language: English

Abstract

Abstract: In previous published articles, formulae-based mnemonics by counting the of s bonds with a lone pair of electrons (LP), a localized negative charge (L localized lone pair of electrons (LLP) and subtracting one (01) from this tot (TSLP, TSLNC, or TSLLP) to predict the power of the hybridization state o molecules or ions and organic compounds, including heterocyclic compou been discussed. These are the innovative and time-efficient methods of er student interest. Here, in this new article, the limitations of conventional for comparison to the use of innovative formulae have been discussed along v application of the hybridization state in different fields of chemical educatio encourages students to solve multiple choice type questions (MCQs) at dif competitive examinations in a time economic ground on the prediction of h state of simple molecules or ions to know their normal and subnormal geo prediction of hybridization state of hetero atom in different heterocyclic con know the planarity of the compounds, which is very essential factor for pre aromaticity of heterocyclic compounds. Educators can use this comparativ their classroom lectures to make chemistry authentic and intriguing. Becau mnemonics in classroom lectures is an essential tool to become a distingu educator.

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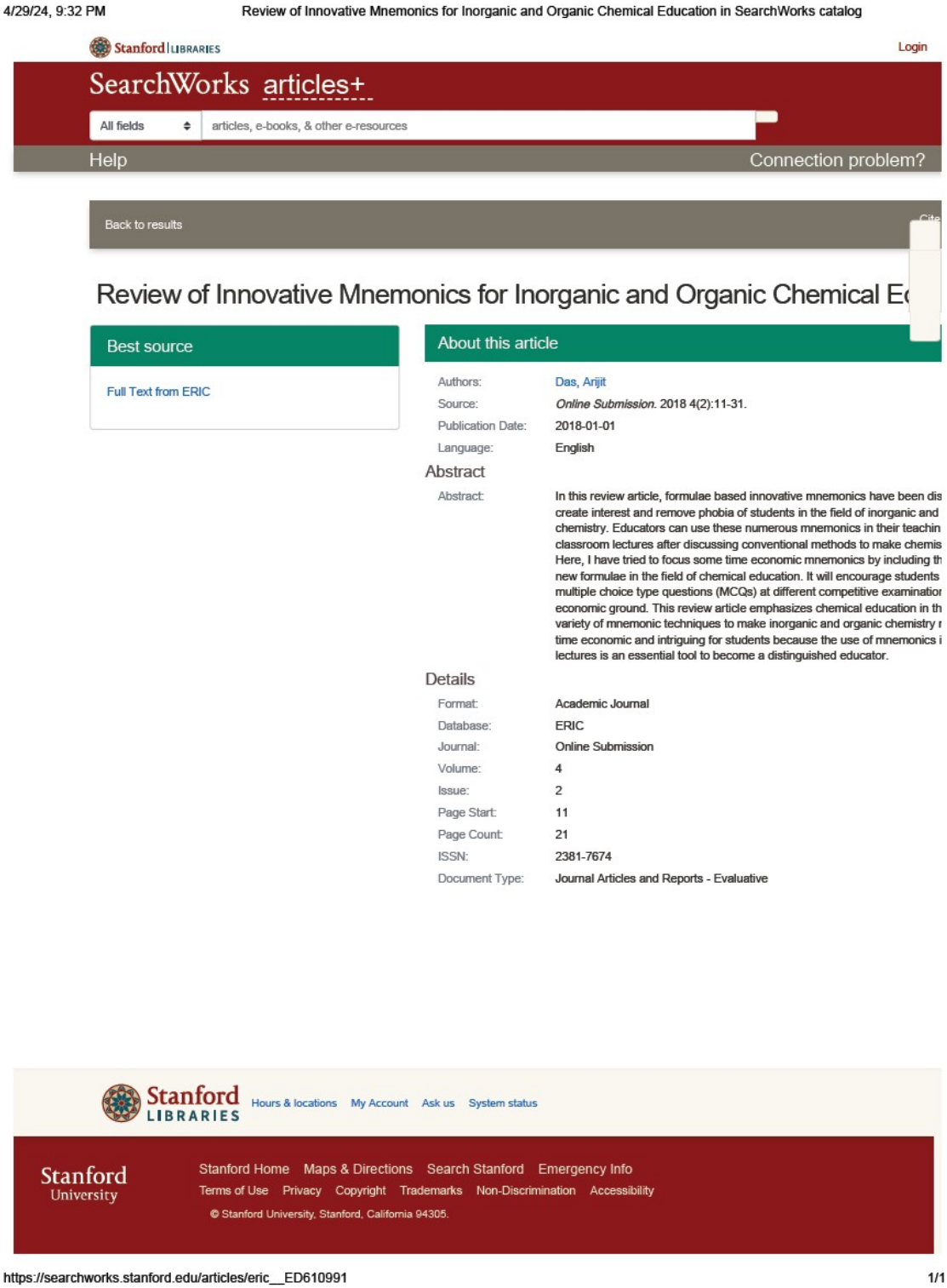

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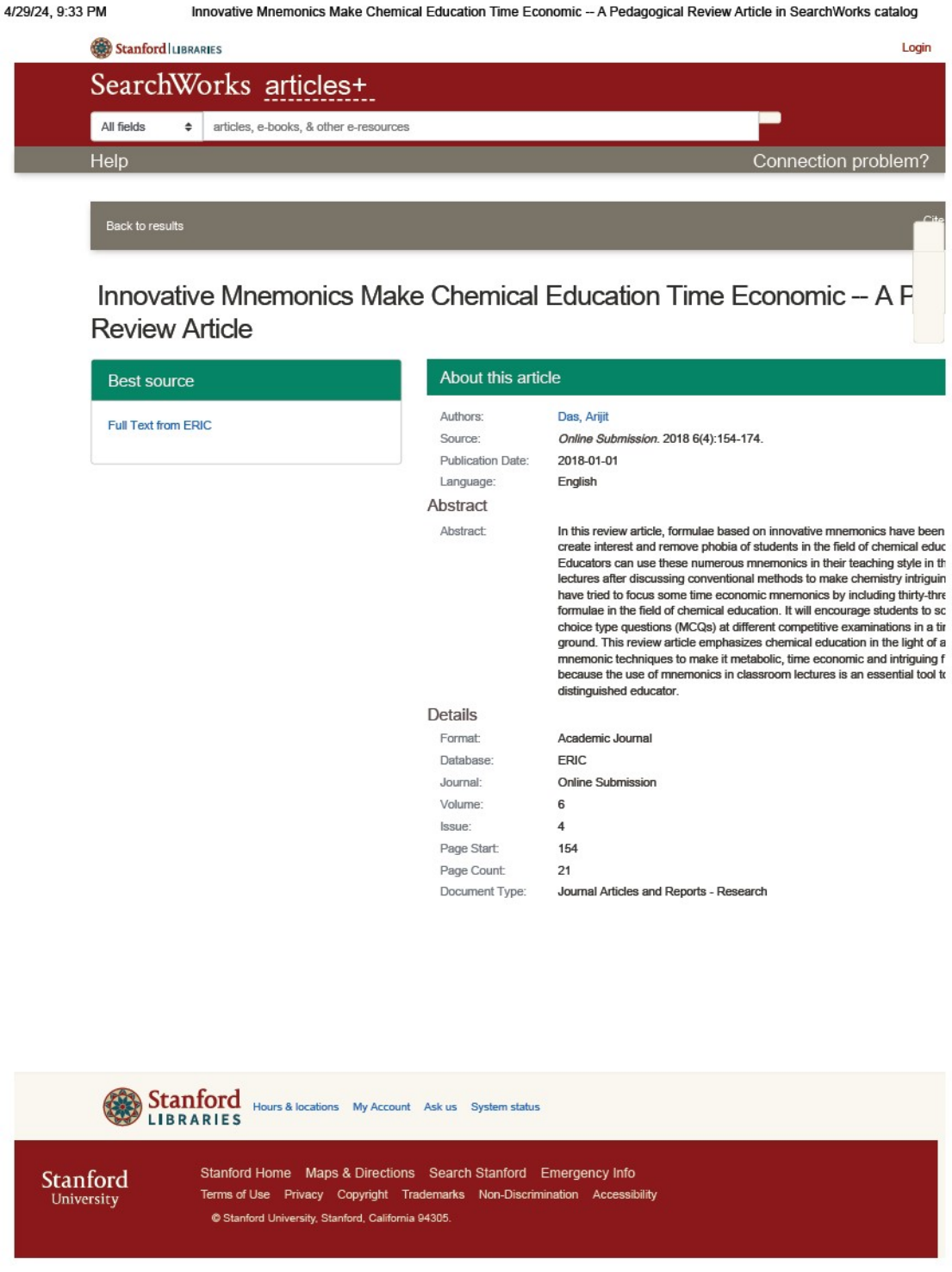

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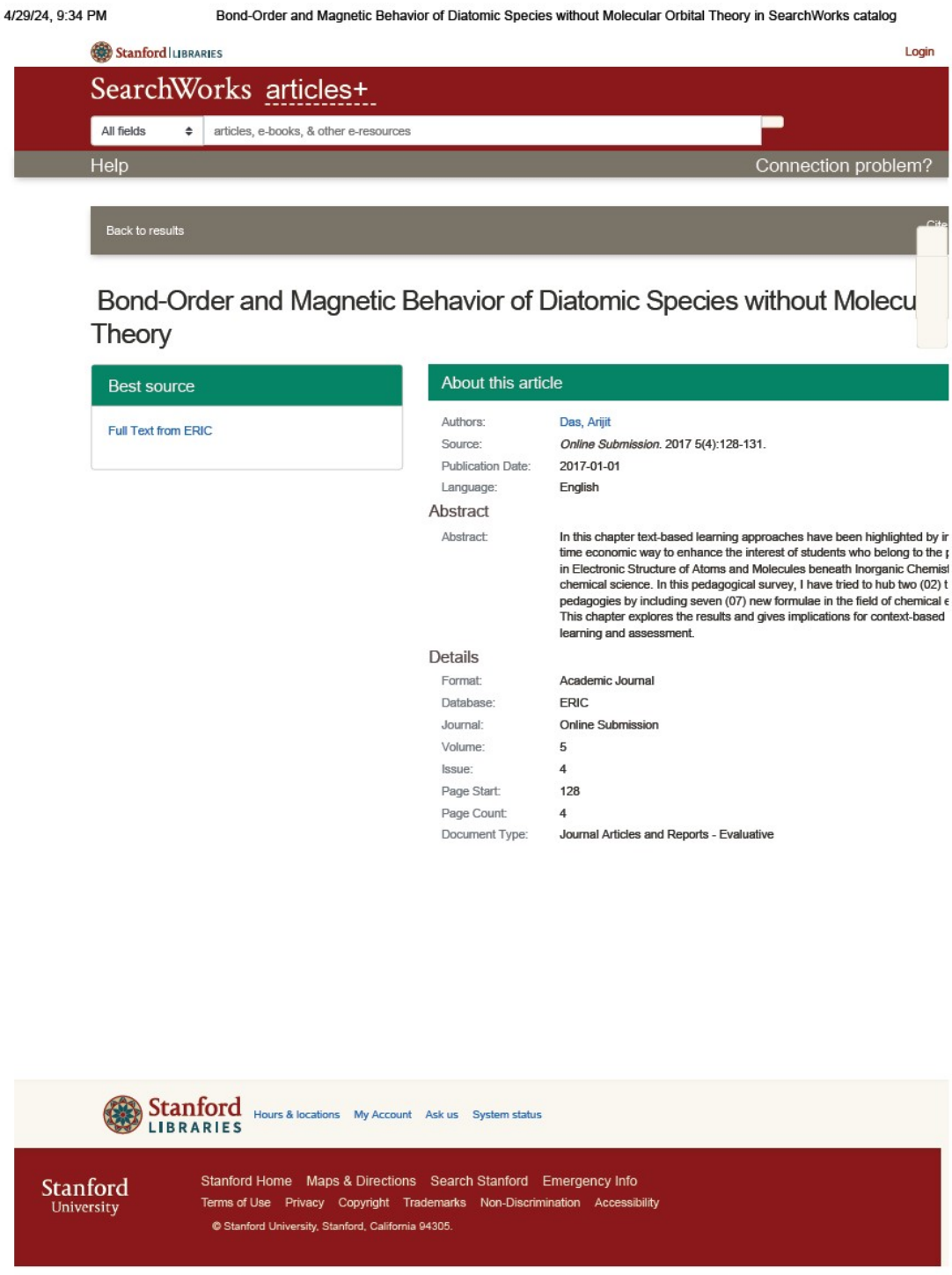

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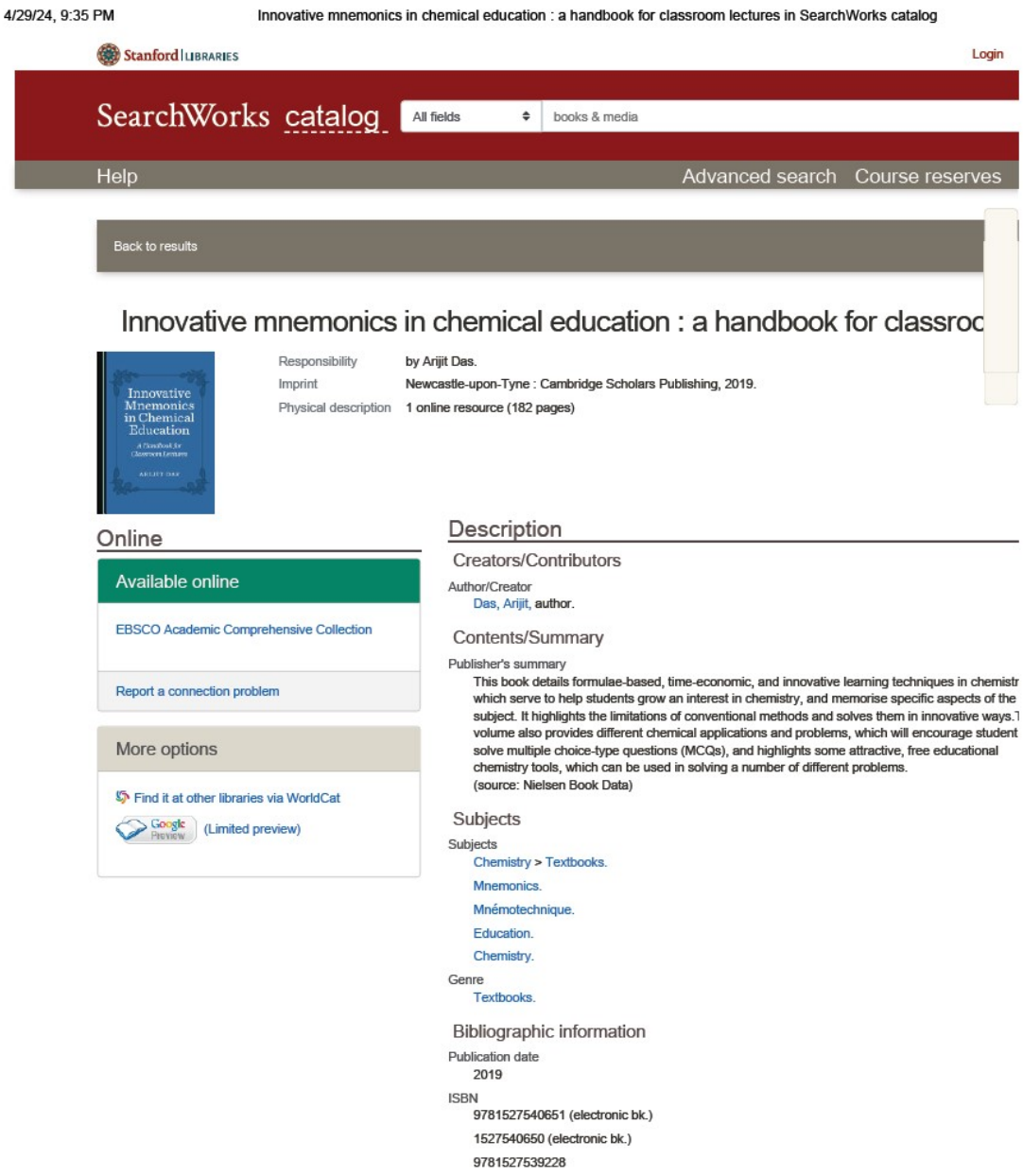

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Description

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Das, Arijit, author.

Contents/Summary

Publisher's summary
This book details formulae-based, time-economic, and innovative learning techniques in chemistr which serve to help students grow an interest in chemistry, and memorise specific aspects of the subject. It highlights the limitations of conventional methods and solves them in innovative ways.T volume also provides different chemical applications and problems, which will encourage student solve multiple choice-type questions (MCQs), and highlights some attractive, free educational chemistry tools, which can be used in solving a number of different problems.
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