
CURRICULUM VITAE

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Present address: Department of Chemistry
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Date of Birth: 01-01-1983

Nationality: Indian

Sex: Male

Religion: Hinduism

Languages speak: English, Hindi, and Assamese

Present Occupation:

Assistant Professor (Level 12) at Department of Chemistry, Bhattadev University, Bajali.

Education:

	Institute offering the degree	Year of pass out	Subject(s)	Result
Ph. D	Indian Institute of Technology Guwahati, Assam, India	2012	Chemistry	-

M.Sc.	Gauhati University, Guwahati Assam, India	2007	Chemistry	I Class (2 nd Position)	81.4%
B.Sc.	B. Borooah College, Guwahati Assam, India	2005	Chemistry	I Class (2 nd Position)	71.6%
10+2	JNV Sonitpur Assam, India	2001	Maths, Physics, Chemistry, Biology, English	I Class	69.0%
10 th	JNV Nalbari Assam, India	1999	Maths, Science, Social Studies, English, Hindi	I Class	73.8 %

Honors and Awards:

- (1) Qualified the **Graduate Aptitude Test for Engineering (GATE)** 2007: All India Rank 396.
- (2) Qualified the Joint **CSIR-UGC Test for Junior Research Fellowship and Eligibility for Lectureship (NET)** in 2007, held by the Council of Scientific and Industrial Research (CSIR) and University Grants Commission (UGC), India.
- (3) Upgraded to **CSIR-Senior Research Fellowship (CSIR-SRF)** in 2010.

Publications:

Publication in Journals

1. R. Das , R. L. Sarma and **D. Kalita***, Electronic Spectroscopy and Molecular Modelling Study of Supramolecular Receptors based on Azo Compound of o-Toluidine Capable of Sensing Mercuric Ion, *Asian Journal of Chemistry*; **35**, (2023), 2265-2274

<https://doi.org/10.14233/ajchem.2023.28243>

2. **D. Kalita**, J. B. Baruah, 1-Phenyl-3-(quinolin-5-yl)urea as a host for distinction of phthalic acid and terephthalic acid, *Journal of Chemical Sciences*, **125**, (2013), 267-273.

<https://doi.org/10.1007/s12039-013-0376-z>

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3. **D. Kalita**, R. Herbst-Irme, D. Stalke, J. B. Baruah, Coordination polymers of sodium 2-(quinolin-8-yloxy)propionate : receptor for selective metal ions, *Polyhedron*, **44**, (2012), 52-58
<https://doi.org/10.1016/j.poly.2012.06.034>
4. B. Nath, **D. Kalita**, J. B. Baruah, Zwitterionic metal carboxylate complexes: in solid state, *Solid State Sciences* , **14** (2012), 880-884.
<https://doi.org/10.1016/j.solidstatesciences.2012.04.027>
5. **D. Kalita**, J.B.Baruah. Acid inclusion properties of helical self-assembly of 5,5'-biquinoline derivative. *Crystal Growth and Design*, **11**, (2011), 5131–5138.
<https://doi.org/10.1021/cg201052k>
6. J. Nath, **D. Kalita**, J. B. Baruah, Role of hydrogen peroxide in Synthesis of nitrogen heterocycle containing cobalt complexes, *Polyhedron* ,**30**, (2011), 2558-2563.
<https://doi.org/10.1016/j.poly.2011.07.010>
7. B. Nath, **D. Kalita**, J. B. Baruah, Five coordinated dicarboxylate complexes of copper (+2) and zinc (+2), *Journal of Coordination Chemistry*, **64**, (2011), 2545-2553.
<https://doi.org/10.1080/00958972.2011.601813>
8. **D. Kalita**, J. B.Baruah, Selectivity in metal ions mediated C-N bond formation reactions of 8-aminoquinoline derivatives, *Journal of Physical Organic Chemistry* , **25**, (2012), 169-175.
<https://doi.org/10.1002/poc.1899>
9. **D. Kalita**, H. Deka, S. S. Samanta, S. Guchait, J. B. Baruah, Interactions of amino acids, carboxylic acids, and mineral acids with different quinoline derivatives, *Journal of Molecular Structure*, **990**, (2011), 183-196. <https://doi.org/10.1016/j.molstruc.2011.01.040>
10. **D. Kalita**, J. B. Baruah, Visual distinction of dicarboxylic acids and their salts by 1-phenyl-3-(quinolin-5-yl)urea, *Journal of Molecular Structure*, **969**, (2010), 75-82.
<https://doi.org/10.1016/j.molstruc.2010.01.045>

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11. **D. Kalita**, J. B. Baruah, Different spatial orientations of amide derivatives on anion coordination, *CrystEngComm*, **12**, (2010), 1562-1567. <https://doi.org/10.1039/B915230J>
12. **D. Kalita**, J. B. Baruah, Rearrangement of 2-bromo-N-quinoline-8-yl-acetamide leading to new heterocycle, *Journal of Heterocyclic Chemistry*, **47**, (2010) , 459-462.
<https://doi.org/10.1002/chin.201035173>
13. D. SureshBabu, W. M. Singh, **D. Kalita**, J. B. Baruah, Solvatochromicity of 3-hydroxy-4-(1-(2,4-dihydroxyphenyl)-2-hydroxy-2,2-diphenyl ethylidene)cyclohexa-2,5-dienone for screening of solvents, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* , **75**, (2010), 486-489. <https://doi.org/10.1016/j.saa.2009.10.007>
14. A. Karmakar, **D. Kalita**, J. B. Baruah, Structural study on few co-crystals and a salt of quinoline derivatives having amide bond, *Journal of Molecular Structure* , **935**, (2009), 247-527. <https://doi.org/10.1016/j.molstruc.2009.06.029>
15. R. Sarma, **D. Kalita**, J. B. Baruah, Solvent induced reactivity of 3,5-dimethylpyrazole towards zinc (II)carboxylates, *Dalton Transactions* (2009) 7428-7436.
<https://doi.org/10.1039/B905534G>
16. **D. Kalita**, R. Sarma, J. B. Baruah, Catalytic alcoholysis of quinolin-8-yl esters by manganese complexes, *Inorganic Chemistry Communications*, **12**, (2009), 559-571.
<https://doi.org/10.1016/j.inoche.2009.04.023>
17. **D. Kalita**, R. Sarma, J. B. Baruah, Formation of symmetry non equivalent molecules in urea and carbamate derivatives: role of anion, *CrystEngComm* **11**, (2009), 803-810.
<https://doi.org/10.1039/B815962A>
18. **D. Kalita**; Naked-eye recognition of biologically active anions by diazonium salts of ortho and para toluidine, *Academica Bajali*; **3**, (2016), 164-171 (ISSN: 2349-8374)

Publication in Book Chapters

01. Dr. Dipjyoti Kalita; Supramolecular Chemistry and Reactivity of quinoline derivative; *Summary of Doctoral Theses*; vol-05; page 84-87, 2013, (ISBN: 978-81-920635-5-3)
02. Dr. Dipjyoti Kalita; Development of world's smallest machine: The molecular Machines; *Bigyan Saundarjya*; page 32-35, 2017, (ISBN: 978-81-933681-0-7)

Books Edited

01. Aspects of Sustainable Chemical Sciences; 2020; (ISBN: 978-93-89940-82-4)

List of conferences/ seminars/symposia attended

International

01. XX International Conference on the Chemistry of the Organic Solid State (ICCOSS XX), Bangalore, India, during June 26-30, 2011.
02. Modern Trends in Inorganic Chemistry, MTIC-XIII, held at Indian Institute of Science, Bangalore, December 07 – 10, 2009
03. Organix-2018 an International Conference in Chemistry; held on 20 – 21st December, 2018, Organized by Department of Chemical Sciences, Tezpur University, Assam, India
04. International Conference on “Materials Chemistry and Catalysis” (Virtual Mode); Organized by Department of Chemical Sciences, Tezpur University, Assam, India during 4th and 5th March 2021.

National

01. 11th CRSI National Symposium in Chemistry; held from 6th to 8th February 2009 at NCL, Pune (India).
02. National workshop on Crystallography Education; held on November 8, 2014 at Gauhati University.
03. National Seminar on Emerging trends in Chemistry and Technology; held on 27-28 June 2013 at Bajali College, Pathsala.
04. National Seminar on Current Development on Science and Technology held on 6th April, 2023 at Bhattadev University, Bajali.

05. Science Academies' Lecture Workshop on Emerging Trends in Chemical Sciences held on November 8-10, 2018 at Gauhati University.

06. National Seminar on Learning Chemistry, Under SAP, DRS-II; held on 28th March 2018 at Bajali College, Pathsala.

Names of two referees not related to the applicant

Name: **Dr Diganta Choudhury**

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