

PROFILE-Dr. NEHA RANI KUMAR

1. **Name** : Dr. NEHA RANI KUMAR
2. **Father's Name** : Mr. Kasturi Lal Kumar
3. **Mother's Name** : Mrs. Shakti Rani Kumar
4. **Department** : Chemistry
5. **Educational Qualification** : PhD., SLET
6. **Current Designation** : Assistant Professor
7. **Date of Last Promotion** : N/A
8. **Date of joining** : No. DHE/CE/AC/NET/
SLET/155/2019/121, Dated:
Kahilipara the 27/01/2020
9. **Date and place of birth** : 26/09/1989 and North Lakhimpur,
Assam
10. **Marital status** : Unmarried
11. **Address for Correspondence** : Dept. of Chemistry
Dhemaji College, Dhemaji-787057
12. **Permanent Address** : Bazar Road, Ward No. 9, P. O.: North
Lakhimpur, District: Lakhimpur,
787001, Assam
13. **Email(s) and contact number(s)** : nehakumar0926@gmail.com;
+919706182466
14. **Institution** : Dhemaji College

15. Academic Qualification (HSLC Onwards):

Degrees	Name of Board/ University	Name of the institution	Subject(s) taken	Year of Passing
H.S.L.C	SEBA	St. Mary's High School	English, Maths, Science, Social Studies, Advanced Maths & Alternative English	2007
H.S.	AHSEC	Lakhimpur Girls' College	Physics, Chemistry, Maths, Statistics, English & Assamese	2009
B.Sc	Dibrugarh University	Lakhimpur Girls' College	Chemistry (Major) Physics, Maths, Stastics, English	2012
M.Sc	Gauhati Uiversity	Gauhati University	Chemistry (Organic)	2014

PhD	-	Indian Institute of Science Education and Research Kolkata	Thesis title: Exploring Azulene and Thienyltriazine Systems in the Realm of Organic Electronics	2021
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16. Major conferences attended (2020) :

Sl.No.	Title of the Paper Presented	Name of Conference	Organizer/Date
1	Oral Presentation on The Effect of Base and Nucleophile on the Nucleophilic Substitution of Substituted Methoxytropone Derivatives	International Virtual Conference on Green Chemistry for Clean Environment	Department of Chemistry and Department of PG Studies, PACIFIC ACADEMY OF HIGHER EDUCATION AND RESEARCH UNIVERSITY, UDAIPUR in association with Indian Chemical Society on October 3-4, 2020
2	Oral Presentation on Band Gap Engineering and Gas Adsorption in 2,4,6-tri(thiophen-2-yl)-1,3,5-triazine Conjugated Porous Polymers Of Tunable Porosities	International Conference on Recent Trends in Chemical Sciences, Organic and Biochemistry Section organized by	Indian Chemical Society and IISER Kolkata, 26 th -29 th December, 2020.

17. Books : Nil

18. Publications :

- 1) Radical cascade avenue for direct access to 3,4 fused thiophenes with 2,5-positions free for substitution, **Abhijeet R. Agrawal^a, Neha Rani Kumar^a**, Sashi Debnath, Sarasija Das, Chandan Kumar and Sanjio S. Zade.* *Org. Lett.* **2018**, 20, 4728–4731 (^a **ARA and NRK have equal contribution**).
- 2) Abnormal nucleophilic substitution on 2-methoxytropone derivatives: Steric strategy to synthesize 5-substituted azulenes, **Neha Rani Kumar**, Abhijeet R. Agrawal and Sanjio S. Zade,* *Chem. Eur. J.* **2019**, 25, 1–9.
- 3) The effect of base and nucleophile on the nucleophilic substitution on methoxytropone derivatives: An easy access to 4- and 5-substituted multifunctional azulenes, **Neha Rani Kumar**, Abhijeet R. Agrawal, Aditya Choudhury and Sanjo S. Zade, *J. Org. Chem.* **2020**, 85, 14, 9029–9041.
- 4) Band gap engineering and gas adsorption in 2,4,6-tri(thiophen-2-yl)-1,3,5-triazine conjugated porous polymers of tunable porosities, **Neha Rani Kumar**, Prasenjit Das, Abhijeet R. Agrawal, Sanjay Kumar Mandal and Sanjio S. Zade*. (**manuscript under revision**)

- 5) Effect of heteroatom (S/Se) juggling in donor–acceptor–donor (D–A–D) fused systems: synthesis and electrochemical polymerization, Sirina Ghosh, Sarasija Das, **Neha Rani Kumar**, Abhijeet R. Agrawal and Sanjio S. Zade,* *New J. Chem.*, **2017**, *41*, 11568-11575.
- 6) Effect of chalcogen atom variation in chalcogenadiazole fused indolo[2,3-a]carbazoles, Sirina Ghosh, **Neha Rani Kumar** and Sanjio S. Zade,* *New J. Chem.*, **2018**, *42*, 6889-6895.
- 7) Triazole fused indolo[2,3-a]carbazoles: synthesis, structures and properties, Sirina Ghosh, Sarasija Das, Chandan Kumar, **Neha Rani Kumar**, Abhijeet Agrawal, Himadri Karmarkar, Nani Gopal Ghosh and Sanjio S. Zade,* *J. Heterocyclic Chem.* **2020**, *57*, 2561–2569.
- 8) Boron difluoride formazanates with thiophene and 3,4-ethylenedioxythiophene capping and their electrochemical polymerization, Chandan Kumar, Abhijeet R. Agrawal, Nani Gopal Ghosh, Himadri S. Karmakar, SarasijaDas, **Neha Rani Kumar**, Vishal W. Banewar and Sanjio S. Zade,* *Dalton Trans.*, **2020**, *49*, 13202-13206.
- 9) Arene-fused selenophenes from arylethynyl substituted polycyclic arenes by redox neutral cyclization with elemental selenium: selenophene versus E-alkene formation, Himadri S. Karmakar, Chandan Kumar, **Neha Rani Kumar**, Sarasija Das, Abhijeet R. Agrawal, Nani Gopal Ghosh, Sanjio S. Zade* ([manuscript under revision](#))
- 10) Band gap engineering of benzotriazole and benzodithiazole based porous polymers and their application in Glaser coupling, Neha Rani Kumar, Prasenjit Das, Abhijeet R. Agrawal, Sanjay Kumar Mandal* and Sanjio S. Zade*. ([manuscript under revision](#))

19. Research experience excluding years

spent in M.Phil./Ph.D (in years) : Nil

20. Teaching Experience: P.G. Classes (in years)

: Nil

U.G. Classes (in years)

: 01 Year 03 Months

21. Academic Staff college orientation course/ refresher course and other course attended

Sl. No.	Name of the course	Title of the programme	Duration	Grade Obtained	Organized by/Funded by
01	Orientation Programme	Online Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education	26 th June to 24 th July, 2020	A+	Teaching and Learning Centre, Ramanujan College University of Delhi under the aegis of MHRD PMMMNMTT

22. Workshop/Faculty Development Program:

Sl. No.	Name of the workshop/FDP	Title of the programme	Duration	Grade Obtained	Organized by/Funded by
01	Workshop	The BodhiTree and SAFE Tools for Effective Online Teaching: A Hands-On Workshop	20 th June, 2020 (1 day)	NA	Teaching Learning Centre (ICT) at IIT Bombay, funded by PMMMNTT, MHRD, Govt. of India
02	Faculty Development Program	FDP on LaTeX	20 th June to 24 th June, 2020 (5 days)	NA	North Lakhimpur College in association with Spoken Tutorial Project, IIT Bombay funded by NMEICT, MHRD, Govt. of India
03	Faculty Development Program	FDP on Managing Online Classes and Co-Creating MOOCs 3.0	25 th July to 10 th August, 2020 (2 week)	A+	Teaching and Learning Centre, Ramanujan College University of Delhi under the aegis of MHRD PMMMNTT
04	Faculty Development Program	FDP on ICT Enhanced Teaching Learning and Creating MOOCs	18 th August to 25 th August (1 week)	A+	Teaching and Learning Centre, Ramanujan College University of Delhi and IQAC, Shivaji College, University of Delhi under the aegis of MHRD PMMMNTT
05	Faculty Development Program	FDP on ICT Tools in Teaching Chemistry	2 nd September to 6 th September, 2020 (5 days)	A	St. Teresa's College (Autonomous), Ernakulam, Teaching and Learning Centre (An IQAC Initiative) and Department of Chemistry and Centre for Research

06	Workshop	Jmol Application Workshop	19 th September, 2020 (1 day)	NA	Teaching Learning Centre (ICT) at IIT Bombay funded by PMMMNMTT), MoE, Govt. of India
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23. Conferences/Seminar/FDP/Workshop Organized:

Sl. No.	Name of the Conference /Seminar/FDP/Workshop /	Title of the programme	Date	Served as/Role	Organized by/Funded by
01	National Webinar	Interdisciplinary Topics in Chemistry for Budding Chemists	18 th June, 2020	Convenor	Department of Chemistry, Dhemaji College in association with IQAC Cell, Dhemaji College
02	National Webinar	Strategic Approaches Towards Qualifying JAM/NET/GATE in Chemistry	3 rd and 4 th August, 2020	Member of Organizing Committee	Department of Chemistry, Dhemaji College in association with IQAC Cell, Dhemaji College and Department of Chemistry, Tezpur University
03	Faculty Development Program	7 day National Level Faculty Development Program on Aspects of Pedagogical Re-design and Online Teaching Learning Process	15 th to 21 st June, 2020	Member of Organizing Committee	IQAC Cell Dhemaji College
04	National Colloquium	National Chemistry Scholars' Colloquium (A symposium organized by the students and for the students)	7 th March, 2019	Co-Convenor	Department of Chemical Sciences, IISER Kolkata

24. Major awards

- i. **2012:** Best Graduate under Science stream (Dibrugarh University)
- ii. **2014:** Gold medalist in M.Sc (Chemistry)
- iii. **2019:** Best Oral Presentation award at International Conference on Emerging Trends in Chemical Sciences, Department of Chemistry, Gauhati University, 13th-15th February, 2019
- iv. **2018:** Best Oral Presentation award in Frontiers in Chemical Sciences, Department of Chemistry, IIT Guwahati, 6th -8th December, 2018.
- v. **2019:** Best Poster Prize in Department of Chemical Sciences Day (8th March, 2019) at IISER Kolkata.
- vi. **2019:** Best Poster Prize in Symposium on Polymer Science, IISER Kolkata, 05th-06th July, 2019.
- vii. **2019:** Best Poster Prize in Chemical Science in India: Leaders in the Field Symposium from 18th-20th October, 2019 at IISER Kolkata.
- viii. **2020:** Best Oral Presentation Award in International Conference on Recent Trends in Chemical Sciences, Organic and Biochemistry Section organized by Indian Chemical Society and IISER Kolkata, 26th-29th December, 2020.

25. Relation with social organization

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- i. Participation in corporate life- Nil
- ii. Association with activities of both College and University: Working as examiners
- iii. Enrichment of campus life :Guiding students for student seminar and wall magazine

29. Innovation/contribution in teaching

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- i. Design of curriculum: Teaching plan prepared
- ii. Teaching method: Teaching cum demonstration method
- iii. Laboratory experiment; Taught regularly
- iv. Evaluation method: Test and unit test
- v. Preparation of resource material: Laboratory manual prepared for organic chemistry
- vi. Remedial teaching/student counseling: Done

30. Extention/community work

:

- i. Life Member of Materials Research Society of India, Membership Number: LMB3251
- ii. Full Member of Organization for Women in Science for the Developing Countries, Member ID: 10967

Place: Dhemaji

(Miss Neha Rani Kumar)

Assistant Professor