

FACULTY MEMBER'S PROFILE

Part- I: Basic Information

1. Name of the Faculty Member : Rana Sanjay Kumar Singh
2. Present designation: Associate Professor
3. Date of Birth: 01-01-1970
4. Father's Name : Sri Narendra Kumar Singh
5. Date of Joining : 16-07-1997
6. Details of Qualification

Name of the Examination Passed	Name of the Board/ Council/ University	Year of Passing	Division/ Class
HSLC or Equivalent	BSEB, Patna	1984	I
Higher Secondary	AHSEC, Guwahati	1986	II
B. Sc.	Gauhati University	1989	II
M. Sc.	Gauhati University	1992	I
Others (B. Ed.,)	Gauhati University	1994	II
Specialisation	Inorganic Chemistry		
Ph.D	Organomodified Silica Catalyst for Organic Conversions, under the guidance of Dr. Prodeep Phukan, Department of Chemistry, Gauhati University and was awarded degree in 2015.		

Dr. Rana Sanjay Kumar Singh has the following rewards and administrative experience to his credit:

- a). Received best poster award at National Symposium on Natural Products: Prospects and Perspectives, 21-22 March, 2016; Organised at CSIR-North East Institute of Science and Technology, Jorhat.
- b). Attended the Exposure camp conducted at **Homi Bhabha Centre for Science Education (HBCSE), Tata Institute of Fundamental Research, Mumbai** from 13th Nov. 2014 to 15th Nov. 2014.
- c). Awarded Teacher Fellowship for three years under FDP programme of UGC to carry out research work at Gauhati University in 2012.
- d). Worked as **Head of the department of Chemistry**, Nowgong College from October 2016 to October 2018.

e). Worked as **Deputy Controller of Examinations, Nowgong College (Autonomous)** from 15th of February 2021 to 15th of February 2022.

f). Working as **Controller of Examinations since August 2023**

g). Acted as returning Officer, Nowgong College Students' Union Election, 2016 and Teacher In-charge, Major Sports.

Total No of Publication:

- a) Singh, R.S.K, Kashyap, B.Phukan P., “Nicotinic acid functionalized organomodified silica as an efficient heterogeneous catalyst for the synthesis of benzoyl fumarate”, *Tetrahedron Letters*, 54 (2013) 6687–6690.
- b) Singh, R.S.K., Kashyap, B., Phukan, P. “Synthesis of Benzoyl Fumarates with Supported Nicotinic Acid Thioesters” *Synfacts* 2014, 10(2), 0223.
- c) Singh, R.S.K., Phukan, P., ‘Mesoporous Silica Supported Nicotinic Acid Thioester: An Efficient And Heterogeneous Catalyst for Acetylation of Alcohols’, *Delve*, Ed. Nowgong College., Vol.- IV, p-91-95, ISSN 2278-7402.
- d) Synthesis of Copper(I) iodide nanoparticles as heterogeneous, Green and reusable catalyst for aziridination reaction, *Delve*, Ed. Nowgong College., Vol.- VI, p-40-43, ISSN 2278-7402.
- e) Synthesis and structural properties of a 1-D Copper (I) coordination Polymer, Singh, R. S. K., Barman, R. K., Das, B. K., **Journal of Chemical Crystallography, Vol. 32, No-10, 2002.**
- f) Mahanta B., Mamun H. A., Singh R. S. K., Borthakur L. J., “A sulfonated graphene supported nano copper MoS₂ network for non-enzymatic simultaneous sensing of dopamine and serotonin”, **New Journal of Chemistry 13th September 2023.**
- g) Konwar M., Singh R. S. K., Borthakur L. J., Zink Cobalt Sulfide/Reduced Graphene Oxide Nanocomposite for High-Performance Asymmetric Supercapacitor: A microwave-Assisted synthesis, **Energy Technology 2024.**

Number of Research Paper published in Proceedings Book of Seminar:

Title of the paper	Title of the Seminar	Date of the Seminar	Status of the Seminar	Name of the Organising Institute
1.Acetylation of alcohols with Organomodified Mesoporous silica supported nicotinic acid thioester	National symposium on natural Products: Prospects and Perspectives	March 21-22, 2016.	National	CSIR-NIST, Jorhat, Assam
2.Sulphonic acid functionalised organomodified silica as acetylation catalyst	National Seminar on Frontiers in Science and Technology	March 08-09, 2013	National	Assam Science Society, Gauhati University.

3.Isonicotinic acid functionalised Organomofied Silica as heterogeneous catalyst for acylation reaction	20 th CRSI National Symposium in Chemistry	3 rd -5 th February 2017	National	Department of Chemistry, Gauhati university
---	---	--	----------	---

Details for Chapter published in Edited Books

Fundamentals of chemicals for laboratory work, SPECTRUM, 2015, Page 101-112, (ISBN 978-81-924066-2—6).

Details of each Membership

Name of the Organisation	Membership Position/ Designation	Membership type Annual/ Life/ Other
National Association of Chemistry Teachers	Member	Life
Assam Science Society, Nagaon-kolongpar branch	Working President and life member (2016-2019)	Life
Society for Chemical Education, Assam	Member	Life

Symposium/Workshop attended:

- a). Poster presented at Reach-2015, An international symposium on recent advances in Chemistry (March 03-05, 2015), UGC centre for advance studies in Chemistry, Department of Chemistry, NEHU, Shillong, Meghalaya.
- b). Poster presented at 17th CRSI national symposium in Chemistry, Feb. 06-08, 2015, National Chemical Laboratory, Pune, India.
- c). Paper presented, UGC sponsored national seminar on, Recent challenges for chemical research and practices: Moulding Chemistry towards a better tomorrow, Nov. 09-10, 2012, Department of Chemistry, Darrang College, Tezpur, Assam.
- d). National seminar on Chemistry education and research and national convention of Chemistry Teachers, Nov. 01-04, 2012, Department of Chemistry, Gauhati University, Guwahati, Assam.
- e). Workshop on sensors and its applications, 15th Nov. 2013, Polymer Section, Physical Science division, Institute of advanced study in science and technology, Guwahati, Assam.
- f). National workshop on crystallography education, Celebrating the international year of Crystallography, Nov. 8, 2014, Department of chemistry, Gauhati University, Guwahati.
- g). DST sponsored national seminar on recent aspects of chemistry education and research, Feb.24-25, 2012, Department of Chemical Science, Gauhati University, Guwahati.

- h). Paper presented at National seminar on Frontiers in Science and Technology, organised by Assam science society and hosted by Department of Chemistry, Gauhati University, March 08-09, 2013.
- i). Pre-Workshop School on Theoretical approaches in Catalysis, organised by JNCASR, Bangalore, in collaboration with Department of Chemistry, Gauhati University.
- j). Saksham-IT Champion Training Programme, Department of Electronics and Communication Technology, GU; 9th Dec 2014 to 14th Dec 2014.
- k). Attended the Exposure camp conducted at Homi Bhabha Centre for Science Education (HBCSE), Tata Institute of Fundamental Research, Mumbai from 13th Nov. 2014 to 15th Nov. 2014.
- l). Poster presented at National Symposium on Natural Products: Prospects and Perspectives, 21-22 March, 2016; Organised at CSIR-North East Institute of Science and Technology Jorhat.