



UNIVERSITY OF CALCUTTA

Faculty Academic Profile

Full name of the faculty: NIKHIL GUCHHAIT
Designation: PROFESSOR
Specialization: CHEMISTRY (PHYSICAL Spl.)
Contact information: Department of Chemistry
University of Calcutta
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All academic degrees obtained:

<i>Year</i>	<i>Name of the academic degree</i>	<i>Name of University</i>	<i>Subject of Examination</i>	<i>Grade/ Division</i>
1988	B.Sc. (Hons), Chemistry	Presidency College/ Calcutta University, India	Chemistry (Hons.), Phys (P), Math (P), Eng.(Addi.)	1 st
1990 (Result 1991)	M. Sc. (Spl. Physical)	Rajabazar Science College/ Calcutta University, India	Chemistry (Physical Spl.)	1 st
1995	Ph. D. (Science)	Jadavpur University (IACS), India	Laser Spectroscopy	

Complete professional background:

<i>Time (from/to-month/year)</i>	<i>Position</i>	<i>Name and Place of the Institute</i>
April, 1999 to July, 2001	Assistant Professor	Dept. of Chemistry, Indian Institute of Technology, Guwahati
July, 2001 to March, 2002	Lecturer	Dept. of Chemistry, Visva-Bharati, Santiniketan, W.B., India
April, 2002 to continuing	Lecturer/Sr. Lecturer/Reader/Associate Prof./Professor	Dept. of Chemistry, Calcutta University, Science College, Kolkata-9, India
April, 2005 - December, 2005 (on leave from CU)	Visiting Scientist (CNRS, France)	Laoratoire de Photophysique Moleculaire du CNRS, Bat. 210, Universite de Paris XI, 91405 Orsay Cedex, France
June, 2009- Sept.2009 (on leave from CU)	Visiting Faculty	Institute of Atomic and Molecular Science, Academia Sinica, Taiwan

Periods of research in abroad:

<i>Time (from/to-month/year)</i>	<i>Name and place of the Institute</i>	<i>Position</i>	<i>Name and address of Scientific Collaborator/advisor</i>
Sept. 1995 to March, 1997	The State University of New Jersey, New Jersey, USA	Post Doc., NSF project, USA	Prof. Lionel Goodman, Department of Chemistry, Wright and Rieman Laboratories, The State University of New Jersey, Rutgers, P.O. Box. 939, Piscataway, New Jersey 08855, USA
March, 1997 to March, 1999	Tohoku University, Sendai, Japan	Post Doc., JSPS, Japan	Prof. Naohiko Mikami, Tohoku University, Department of Chemistry, Graduate School of Science, Aoba-ku, Sendai 980-8578, JAPAN
April, 2005 to December, 2005	University of Paris Sud XI, France	Visiting Scientist, CNRS, France	Prof. Anne Zehnacker-Rentien & Prof. F. Lahmani Laoratoire de Photophysique Moleculaire dr CNRS, Bat. 210, Universite de Paris XI, 91405 Orsay Cedex, France
June, 2009 – Sept. 2009	Institute of Atomic and Molecular Science, Academia Sinica, Taiwan	Visiting Faculty, IAMS, Taiwan	Prof. Y. T. Lee & Dr. Jim Jr.-Min Lin Institute of Atomic and Molecular Science, Academia Sinica No. 1, Roosevelt Rd., Sec. 4 Taipei, 10617, Taiwan (R.O.C.)

Research interests:

Laser Spectroscopy

Photochemistry

Functional Materials

Number of researchers awarded Ph.D. degrees: 13 (awarded) + 3 (submitted) =16

Number of researchers pursuing Ph.D. degrees: 03

Number of Master degree student completed/pursuing project: 65

Post Doctoral student completed/working: 06

Projects: Completed projects: 07; On going projects: 01

Total Publication : 250

Conference/seminar volumes: 80

Selected Publications:

- ◆ Guchhait, N., Ebata, T. and Mikami, N., *J. Am. Chem. Soc.* 121 (1999) 5705-5711.
- ◆ Paul, B. K., Samanta, A., Guchhait N.*, *J. Phys. Chem. B* 114 (18) (2010) 6183-6196.
- Paul, B. K., Guchhait, N.*, *J. Phys. Chem. B* 115 (41) (2011) 11938-11949.
- ◆ Dalapati, S., Saha, R., Jana, S., Patra, A. K., Bhaumik, A., Kumar, S., Guchhait, N.*, *Angew Chem.* 51 (2012) 12534-12538.
- ◆ Dalapati, S., Md. Akhtarul Alam,* Saha, R., Jana, S., Guchhait, N.*, *Crys Eng, Comm* 14 (2012) 1527-1530 (Front cover page).
- ◆ Dalapati, S., Jana, S., Saha, R., Md. Akhtarul Alam, Guchhait, N.*, *Org. Lett.* 14 (2012) 3244-3247.
- ◆ D. Ray, A. Bhattacharyya, S. C. Bhattacharya, N. Guchhait*; *J. Phys. Chem. C* 122 (2018) 17544-17551.
- ◆ A. Bhattacharyya, S. C. Makhal, A. Ganguly, N. Guchhait*; *Chem. Phys. Lett.* 696 (2018) 106–111.

- ◆ A. Bhattacharyya, S. C. Makhal, N. Guchhait*; *J. Phys. Chem. A* 123 (2019) 6411-6419.
- ◆ S. C. Makhal, A. Bhattacharyya, N. Guchhait*; *Chem. Phys. Lett.* 717 (2019) 112-118
- ◆ A. Bhattacharyya, S. C. Makhal, S. Mandal, N. Guchhait*; *J. Phys. Chem. A* 123 (2019) 10246-10253.
- ◆ S. Ghosh, MA Khan, A. Bhattacharyya, MA Alam, E. Zangrando, N. Guchhait, *New J. Chem.* 44 (2020)20275-20284.
- ◆ A. Bhattacharyya, S. C. Makhal, N. Guchhait*; *J. PhotoChem PhotoBio. A* 338 (2020) 112177.

Membership of Learned Societies:

- Indian Society for Radiation and Photochemistry (ISRAP), Indian Photobiological Society
- Chemical Research Society of India

Invited lecturers delivered: 40 (Forty)

Awards/Recognition:

- B. C. Deb memorial award for 2006-2007 in Soil/Physical Science by Indian Science Congress
- Fellow of West Bengal Academy of Science Technology (WAST) 2017.