

Curriculum Vitae



Dr. PALLABI GOSWAMI
ASSOCIATE PROFESSOR
DEPARTMENT OF CHEMISTRY,
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Date of Birth: 1st August 1975

Marital Status: Married

Gender: Female

Summary

Dr. Pallabi Goswami has around **20 years** of working experience in Research and Educational Institutions in India. She is actively engaged in the research area of photocatalysis, separation sciences and Nano-sciences to produce valuable chemicals from natural products and chemicals from bio-based materials. She is skilled in analysis and characterization of different molecules and materials by using sophisticated instruments. She is interested in interdisciplinary works to combat the new challenges of research, based on the need. She has good management and administrative experiences in educational institutions along with effective communication and decision-making abilities.

Educational Background

2009 – 2012 __ **Ph. D. Inorganic Chemistry**

- Title of the Thesis: “*A STUDY OF PHOTOCATALYSIS ON NANOSIZED Ti (IV)OXIDE*” (Advisor: Prof. Jatindra Nath Ganguli)
- Gauhati University, Guwahati, Assam, India.
- GPA = 8.67/10.0 (course work during Ph.D, GPA = Grade Point Average)

1995-1997 M. Sc. (Chemistry)

- Gauhati University, Assam, INDIA
- Specialization in inorganic Chemistry
- 1st class in Inorganic Chemistry

1992 - 1995 B. Sc. (Chemistry, Physics and Mathematics)

- Gauhati University, Guwahati, Assam, INDIA
- Honors in Chemistry
- 1st class 6th with distinction

1999 -2000 B.Ed (Mathematics, Science)

- **First Class 3rd in G.U.**

Current Employment

Associate Professor, Department of chemistry, Nowgong college, Nagaon, Assam, India, 782001

Previous Employment

- **Lecturer in the department of chemistry in D. K. College, Mirza, Assam. Duration of employment 1999-2003.**
- Guest lecturer in the post graduate section in the department of chemistry, Gauhati University, Guwahati (Assam), India. Duration of employment: 01/03/2010 – 25/06/2011
- Senior Research Fellow (SRF) in the department of chemistry, Gauhati University, Guwahati (Assam), India. Duration of employment: 01/03/2010 – 25/06/12

Awards, Fellowships and Positions

- **2001& 2002: Qualified National Eligibility Test (NET)** twice in Chemical Sciences.
- **IASc INSA Summer research fellowship** at IISc, Bengaluru, under the supervision of Prof. Partha Sarathi Mukherjee in 2019

Research Guidance:

Ph. D. supervisor, Science Faculty, Gauhati University from 2018.

Ph. D (ongoing): 03 (01 in Gauhati University and 02 In Nowgong College (A) India

Area of Research Expertise

- Biomass chemicals and biofuel production
- Photocatalysis
- Nano catalysis: synthesis and characterization of metal oxide semiconductor photocatalysts
- Skills on chemical structure and surface characterization: FTIR, GC-MS, LC-MS, XRD, UV-Vis, TGA, XPS, HPLC, SEM and TEM

Research Project completed

Completed UGC research project on Synthesis and characterization of N-doped titania for enhanced photocatalytic reactions **in 2015** of financial assistance Rs. 325000/- (No-F.5-89-2014-15/MRP/NERO/1814 dated 09/02/2015)

Research Project supervised

- M. Sc & B. Sc chemistry projects supervised: 20
- B. Sc Environmental projects supervised: 180

Courses taught

- Inorganic Chemistry for M. Sc. (Semester I-IV), B. Sc. (Semester I-VI, Honours and Generic courses)
- Nano chemistry (M. Sc. Semester IV)

Services provided to students and the home institution

- Head, Department of Chemistry (2018-2022)
- Coordinator, Institute Innovation Council, Nowgong College, Nagaon, Assam
- Co-ordinator, Certificate course in Chemistry behind Cosmetics chemistry, center for vocational studies (2021-continueing)
- In-charge, Library, Department of Chemistry (2017-2022)
- Member, Departmental PG committee (2013 onwards)
- Member, Board of studies, Department of Chemistry
- Member, Board of studies, Center for vocational studies
- AOC, Examinations for several times.
- In-charge Girls Common room, Nowgong College Student Union (2012-16)
- Member, DBT star College scheme (2013 onwards)
- As Presiding Officer in Panchayat Election 2012, Lok Sabha Election 2014, 2019 and Legislative assembly election 2015, 2021.
- Training programme for students and staff on safety and analytical techniques in laboratory.

Workshop organized

- Coordinator, online FDP on Mentoring Pedagogy and Teaching for Higher Education, Electronics & ICT Academy IIT Guwahati and Nowgong College, (08-15 June 2020).

Conference organized

- Convener, Two day National Seminar on Coproduction of Science with Social Science, Sponsored by ICSSR, in 2017
- Convener, e-International Conference on Nutrients acquisition by plant based remedies against viral diseases, Nowgong College, Assam, India, (07 to 08 August 2020).
- Convener, 1st International e-conference on Current Trends in Chemical Research, Nowgong College, (22 August 2020).
- Organizing Committee member in the International Conference on “Recent Advances in Agricultural Biological and Applied Sciences Research” organized by Society for Biotic and Environmental Research (SBER) Tripura (8th & 9th August , 2022)

Workshop attended

- MHRD sponsored two days’ workshop on “I.C.T. in Management of Education” organized by TLC, Tezpur University in collaboration with Nowgong College, May 22 & 30, 2019.
- National workshop on Rashtriya Uchchar Shiksha Abhijan: A Paradigm Shift for Quality Education and Financing Higher Education, Nowgong College & Assam College Teachers’ Association, May 10, 2014.

Technical Skills

- Synthesis of inorganic molecules and their characterization via **XRD, SEM, TEM,**

nitrogen adsorption, TGA and DRS

- Gained experience in handling various instruments like GC-MS, HPLC, UV-vis Spectrophotometer (JASCO V-550, JASCO V-660, Shimadzu UV-160A), Spectrofluorimeter (Fluoro Log FL-3.21, Horiba Jobin Yvon; Perkin Elmer LF-55), Mettler Toledo's Thermal Analyzer (TGA-DSC1), FT-IR.
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Membership and activities in professional associations

- Life member of American chemical society.
- Life member, Association of Chemistry Teachers
- Life member, Chemical Research Society of India
- Life member, Assam Science Society, Assam, India
- Life member, Assam college Teachers Association, Assam
- Life member, Ellora Viyan Mancha, Assam

□ Major Publications

A) Research Paper Published in journals:

Sl. No.	Title with Page no.	Journal	ISSN/ISBN
1.	Evaluating the potential of a new titania precursor for the synthesis of mesoporous Fe-doped titania with enhanced photocatalytic activity pp. 2077–2084 (2012)	<i>Material Research Bulletin</i> , Volume 47, Issue 8, August 2012	Scopus indexed https://doi.org/10.1016/j.materresbull.2012.03.037
2.	Synthesis, characterization and photocatalytic reactions of phosphated mesoporous titania. pp.889–896. (2012)	<i>Bulletin of Materials Science</i> , Volume 35, Issue 5, October 2012.	Scopus indexed https://www.ias.ac.in/article/fulltext/boms/035/05/0889-0896
3.	A novel synthetic approach for the preparation of sulfated titania with enhanced photocatalytic activity (2013)	<i>RSC Advances</i> , Issue 23, 2013	Scopus indexed DOI : 10.1039/C3RA23451G.
4.	Tuning the band gap of mesoporous Zr-doped TiO ₂ for effective degradation of pesticide quinalphos	<i>Dalton Transaction</i> , Issue 40, 2013.	Scopus indexed DOI: 10.1039/C3DT51891D.

	(2013)		
5.	Photophysical and Photochemical Properties of Nanosized Cobalt-Doped TiO ₂ Photocatalyst pp. 7118-7124 (2013)	<i>Asian Journal of Chemistry</i> ; Vol. 25, No. 13 (2013)	Scopus indexed http://dx.doi.org/10.14233/ajchem.2013.14458
6.	A-novel-approach-to-develop-highly-active-n-doped-tio2-photocatalysts-based-on-properties-of-nitrogen-precursor pp. 55-72 (2017)	Advanced Nanomaterials and technology for energy sector , <i>Web of Science SciEdTech</i>	https://sciedtech.eu/download/pallabi-goswami-a-novel-approach-to-develop-highly-active-n-doped-tio2-photocatalysts-based-on-properties-of-nitrogen-precursor-advanced-nanomaterials-and-technologies-for-energy-sector-2017115 ISSN: 2559 – 2637
7	Physicochemical studies of ZnO and TiO ₂ semiconductors and their photocatalytic behaviour towards UV and visible light active drug and dye degradation;	Advanced Nanomaterials and technology for energy sector, <i>Web of Science SciEdTech</i> , 2020:4(3): 308-319	https://sciedtech.eu/download/nandini-priyamarajkumari-gayatri-saikia-pallabi-goswami-physicochemical-studies-of-zno-and-tio2-semiconductors-and-their-photocatalytic-behaviour-towards-uv-and-visible-light-active-drug-and-dye-de/ ISSN: 2559 – 2637
8	Plant-Based Natural Dye-Stimulated Visible-Light Reduction of GO and Physicochemical Factors Influencing the Production of Oxidizing Species by a Synthesized (rGO)/TiO ₂ Nanocomposite for Environmental Remediation (2021)	<i>ACS Omega</i> , 2021, 6, 4, 2686–2698	Scopus indexed https://doi.org/10.1021/acs.omega.0c04889
9	Synchronizing charge-carrier capacity and interfacial morphology of green rGO modified ZnO and TiO ₂ heterojunctions and study of their photocatalytic behaviour	<i>Materials Science And Engineering: B</i> , Volume 287, 2023	Scopus indexed https://doi.org/10.1016/j.mseb.2022.116094

	towards UV and visible light active drug and dye		
10	Enhancing anti-inflammatory and antibacterial activity of curcumin by nano composing with curcumin reduced copper nano for the treatment of bacterial infection	<i>Materials Science And Engineering: B, Volume 292, June 2023, 116416</i>	Scopus indexed https://doi.org/10.1016/j.mseb.2023.116416
11	Biosynthesis of Cu nanoparticles from Cassia Fistula Flower, and its characterization	<i>Delve, A research journal of Nowgong College, August, 2018, volume VI, page no 44-48</i>	ISSN-2278-7402
12	Chemistry behind nostalgia,	Goriyoshi, September, 2017, page no-40-42	ISSN-2349-5324
13	Alternative Energy Sources	Satsari, 5 (15), December, 2019	ISSN-239-8893

Popular Assamese articles

1. Prantik , 16-31 October 2019, From conflict to collaboration, assessment of the Amazon rainforest vs. our future, (Regn. No-RNP/GH-092/2018-2020)
2. Prantik , 1-15 June 2019, Living in a society of artificial intelligence
3. Prantik , 16-31 October, 2018, Pursuit of Education vs. Finance
4. Prantik , 1-15 November, 2019, The world's most veteran Nobel Prize recipient scientist on B. Gutenabh.
5. Prantik , 1-15 December, 2016, Whether too much sensitivity is blessing or curse
6. Prantik , 16-31 March, 2020, Science, Society, Energy, Policy in Evolution
7. Prantik , 1-15 October, 2021, Science and creativity
8. Gariyoshi, September, 2017, Chemistry behind nostalgia.
9. Bigyan Jeuti, ISSN, 2319-3085, 6 th April, 2019, The juice of chemistry with game fun.
10. Baro othoro, December 2021, RNI No ASSASS/2015/67594, Mission Mars and others, total six episodes.

11. Books

1. Chemistry for Degree students, Semester I, (Generic Elective), Assam Book Depot, 2019, **ISBN 978-93-87797-49-9**
2. Chemistry for Degree students, Semester II, (Generic Elective), Assam Book Depot, 2019
3. Coproduction of Science with social order

12.

Other Achievements

I. Citations

Total 129 citations of Dr. Pallabi Goswami's work in research papers by other research scholars in their paper.

II. Role as reviewer

Has reviewed papers for Royal Society of Chemistry journals and Elsevier Journals



Dear Dr Goswami

Thank you for your valued contribution as a reviewer for our journals in 2015.

Here are your personal reviewing figures for the year:

Total number of reviews completed: **3**

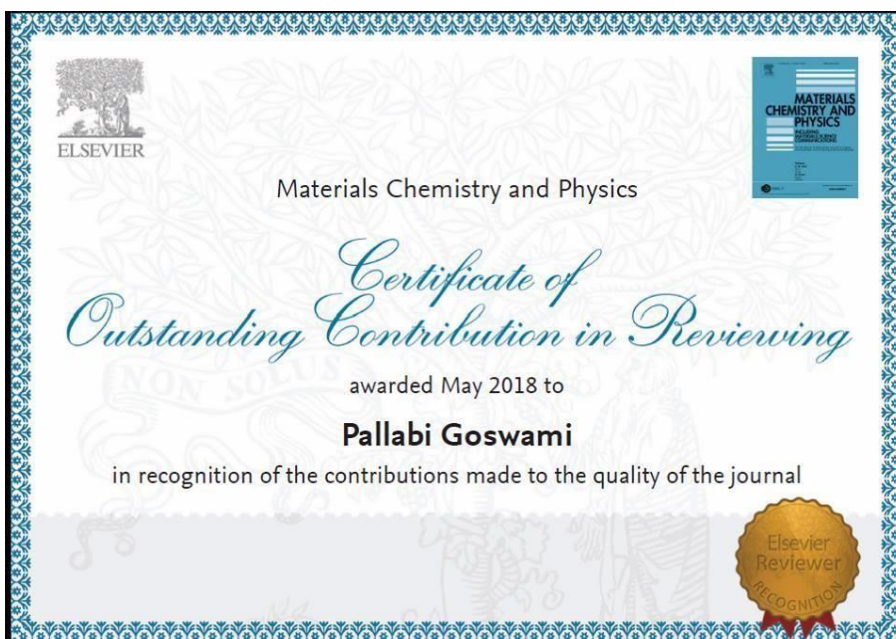
[Journal of Materials Chemistry A](#) 2
[RSC Advances](#) 1

Thank you for your support

We look forward to working with you again in 2016. Together we're helping to shape the future of the chemical sciences.

With best wishes for the coming year,

Emma Wilson MRSC
Director of Publishing
Royal Society of Chemistry



III. Acted as Chairperson in technical sessions for National Seminar



ii. Acted as chairperson and invited speaker at the International Online Conference on Nano Materials (ICN 2022) August 12-14, 2022 at Mahatma Gandhi University, Kottayam, Kerala, India

Conference Email: nanomaterials@macromol.in

Conference website: <https://www.macromol.in/ICN2022/>

Community service

- Member, Assam Science Society, Nowgong Kolongpar branch, Nagaon (from 2020) Organizing Science awareness programme for school children, celebration of World Environment day, Science day etc.
- Prepared hand sanitizer based on WHO protocols and distributed among the students and common people of Nagaon (Highlighted in TV Channels, State & National Newspapers)

Declaration

I, hereby declare that all the statements made above are true, complete and correct to the best of my knowledge and belief.

Place: Nagaon, Assam

(PALLABI GOSWAMI)