

CURRICULUM VITAE

Name: Dr. Biswajit Panda

Date of Birth: 1st January 1984

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Current Position: (Since 16.01.2026)

Assistant Professor,
Department of Chemistry,
Ramnagar College,
Vidyasagar University,
Purba Medinipur, West Bengal

Previous JOB: (05.05.2015-15.01.2026)

Assistant Professor,
Department of Chemistry,
City College,
University of Calcutta,
Kolkata-700009, West Bengal

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Educational Qualification:

Post-Doctoral Fellow (2013-2015): Under the supervision of **Prof. T. Y. Luh**, at the Department of Chemistry, **National Taiwan University, Taiwan**.

Area of interest: Synthesis of polycyclopropene based polymeric ladderphanes and synthesis of low disperse polyamides.

Ph.D. (December, 2012): Under the supervision of **Prof. T. K. Sarkar**, at the Department of Chemistry, **Indian Institute of Technology Kharagpur, India.**

Area of interest: Organic and Organometallic Chemistry

Thesis title: Catalysis by Gold Alone and in Combination with Palladium: Methodology Developments and Total Synthesis of Natural Products

Master of Science: (2006, Chemistry): First Class, 83.5 % (3rd rank, Win Merit Cum Means (MCM) Scholarship), **IIT Kharagpur**, West Bengal, India.

Area of interest: Organic and medicinal Chemistry

Thesis title: Towards the Synthesis of Optically Pure Conformationally Restricted Analogues of Nicotine

Bachelor of Science: (2004, Chemistry Honours): First class (1st rank, win Silver medal), Prabhat Kumar College, Contai, Vidyasagar University, W. B., India.

Higher Secondary: First division (1st rank in School), Egra J. L. High School

Secondary: First division (1st rank in School), Lalat High School

Members:

- (i) Member of **Indian Chemical Society** (Life Member), Membership No.- F/7967 (LM)
- (ii) Member of **The Indian Science Congress Association** (Life member) Membership No.-LM35253
- (iii) Associate Editorial Board Member of journal, "**Current Microwave Chemistry**", Bentham Science
- (iv) Associate Editorial Board Member of journal, "**Natural Product Journal**", Bentham Science
- (v) Associate Editorial Board Member of journal, "**Current Catalysis**", Bentham Science
- (vi) Associate Editorial Board Member of journal, "**Letters in Organic Chemistry**", Bentham Science
- (vii) Member of **The Catalysis Society of India** (Life member) Membership No.-LM1083, dated-28.02.2022
- (viii) Member of **Chemical Research Society of India** (Life member)
- (ix) Member of **The Royal Society of Chemistry**
- (x) Member of **The American Chemical Society**
- (xi) Member of **Chirantan Rasayan Sanstha** (Life member)

Awards and Honors:

*CSIR-UGC NET (June, 2006): Qualified for JRF (CSIR).

- *CSIR-UGC NET (December, 2006): Qualified for JRF(UGC) .
- *GATE (2006): Qualified, All India Rank: 61
- *JAM (2004): Qualified, All India Rank: 87
- *MCM SCHOLARSHIP in M.Sc (Merit Cum Means Scholarship)
- *SILVER MEDAL in B.Sc (For 1st rank in college out of all students from all Departments)
- *Bhikhari Mohan award on class XII (For 1st rank in school out of all students from Science, arts and commerce sections).
- *Selected as “**Tetrahedron Letters Top 25 Cited Author for 2010-2011**”, Elsevier, UK.
- * Selected as “**The Asian Journal of Organic Chemistry Top 20 Cited Author for 2020-2021**”, Wiley.
- *Research Works Cited in sixteen different books including in March’s Advanced Organic Chemistry.
- * National Science Council (NSC) fellowship- 2013
- * National Taiwan University (NTU) fellowship- 2014
- * Certificate of Recognition as Reviewer from American Chemical Society, 2015
- * Certificate of Recognition as Reviewer from American Chemical Society, 2016
- * Received “**Best Paper Award**” on International Seminar on “Recent Advances in Molecules and Materials [RA2M-2018],” Haldia Institute of Technology, 2018
- * Received “**Oral Presentation Competition, 2nd prize**” on SERB sponsored national Seminar on “The Development of Chemistry House on the Pillar of Periodic Table’, Celebration of 150th anniversary of periodic table.” held on 20th November 2019 at Prabhat Kumar College, Contai, Purba Medinipur, West Bengal.
- * Received “**Outstanding Paper**” award at 7th regional science and technology congress, 2025 organized by Department of Science and technology and Biotechnology (DSTBT), Govt. of west Bengal, region-6, held on 17-18 January, 2025 at Presidency University, Kolkata.
- * Received “**Outstanding Paper**” award at 8th regional science and technology congress, 2026 organized by Department of Science and technology and Biotechnology (DSTBT), Govt. of west Bengal, region-3, held on 20-21 January, 2026 at Debra Thana Sahid Khudiram Smriti Mahavidyalay

Professional Competence:

- About eighteen years research experience in the field of Organic Synthesis and organometallic chemistry.
- Expertise in target-oriented multistep organic synthesis.

- Expertise in synthesis, purification and characterization of polymers.
- Proficient in performing low temperature reactions, handling of air and moisture sensitive reagents and reactions.
- Efficient in carrying out organic and organometallic transformations on milligram to multigram scale.
- Familiar to run NMR, IR, HRMS, HPLC, Polarimeter, UV-VIS spectrometers, fluorescence spectrometer, GPC, centrifuge.

List of Publications

(i) Independent Publications (May, 2015-present)

1. Modern Approaches to Green Bromination for a Sustainable Future, Panda, B.; *ES Chemistry and Sustainability*, 2025, 5, 1724.
2. Exploring 2, 5-diphenyl furan derivative as promising inhibitor of p53-MDM2 interaction for cancer therapy, Suvankar Karmakar, Biswajit Panda, Sourav Majumdar, Sk Eashayan Tanbir, Bula Singh, Samiran Mondal, *Next Research*, 2025, 2, 2, 100241. ISSN 3050-4759
3. Some New Aspects of Gold-catalyzed Benzannulation Reaction, Panda, B., *Current Catalysis*, 13, 2, 105-116, **ISSN:** 2211-5447
4. Organocatalytic C-H Bond Functionalizations for the Synthesis of Heterocycles , *Current Organocatalysis*, **2023**,10,3, 134-146. **ISSN:** 2213-3372 (print); 2213-3380 (web)
5. Use of Gold Nanoparticles in the Synthesis of Heterocyclic Compounds, *Letters*

in Organic Chemistry **2023**, 20 (1), 18-27.

ISSN: 1570-1786 (print); 1875-6255 (web)

Impact factor: 0.73

6. The Recent Developments and Applications of Photoremovable Protecting Groups in Organic Chemistry, *Current Chinese Chemistry*, 2022, 2(2), 13.
7. Progress in Catalytic Decarboxylative Oxidative C-H Alkynylation, *Current Catalysis*, 2022, 11(1), 2-15.
8. DMF as CO Surrogate in Carbonylation Reactions: Principles and Application to the Synthesis of Heterocycles, *Catalysts* **2021**, 11(12), 1531;
Impact Factor: 4.501, ISSN: 2073-4344
9. Synthetic Methods for the Preparation of Conformationally Restricted Analogues of Nicotine, *Molecules* **2021**, 26(24), 7544
ISSN: 1420-3049
Impact factor: 4.927
10. Sonogashira coupling of arenediazonium salts: discovery and developments, *Arkivoc*, 2021, part ix 177-199.
ISSN:1551-7004
Impact factor: 1.253
11. Joy and Challenges of Alkynylation of Arenes and Heteroarenes through Double C H Functionalizations, **Panda, B.**, *Asian J. Org. Chem.* **2020**, 9, 492-507.
ISSN: 2193-5815
Impact factor: 3.130
12. Total Synthesis of Xyloketal and Related Natural Product Alboatrin: Strategies and Tactics, **Panda, B.**, *ChemistrySelect* **2019**, 4, 9143–9164.

ISSN:2365-6549
Impact factor: 1.72
13. Total Synthesis of Bruguerols: Strategies and tactics, **Panda, B.**, *Arkivoc*, **2019**, i, 293-303.

ISSN:1551-7004
Impact factor: 1.253
14. Small-Ring Metathesis: Delights and Difficulties, **Panda, B.**, *Asian J. Org. Chem.* **2018**, 7, 2386–2396.

ISSN:2193-5815
Impact factor: 3.130
15. Bioactivity of Marine Natural Product Xyloketal, Panda, B* and Gooyee, A. K., *Letters in Organic Chemistry*, 2021, 18(7), 507-512 .
ISSN: 1570-1786 (print); 1875-6255 (web)
Impact factor: 0.73
16. Microwave-Assisted Homogeneous Gold Catalyzed Organic Transformations, **Panda, B.** *Current Microwave Chemistry*, 2020, 7 (3), 166-182.

ISSN: 2213-3364 (Online), 2213-3356 (Print)

Impact factor: NA

17. Synthesis and characterization of solid-phase super acid catalysts and their application for isomerization of *n*-alkanes, Dhar, A.; Dutta, A.; Sharma, P.; **Panda, B.** Roy, S., Chem. Eng. Commun. **2017**, *204*, 1341-1356.

ISSN: Print 0098- 6445 Online ISSN: 1563-5201)

Impact factor: 1.282

18. Iron Catalysis: Rust-Free Future, **Panda, B.**, *Chemistry & Biology Interface*, **2019**, *9,6*, 273-276

ISSN: 2249 – 4820

Impact factor: NA

19. Towards the template synthesis of conjugated pyrrole based oligo-heteroaryls, **Panda, B.**, *J. Indian Chem. Soc.*, **2020**, *97*, 2287-2290.

ISSN Number: 0019 4522

Impact factor: 0.3

20. Synthetic Studies Directed Towards (-)-Chrysanthone A: Facile Synthesis of a Tricyclic Lactone Intermediate, **Panda, B.**, *J. Indian Chem. Soc.*, **2019**, *96*, 231-239.

ISSN Number: 0019 4522

Impact factor: 0.3

21. Methoxymethylation and benzyloxymethylation of aryl bromides, **Panda, B.**, *J. Indian Chem. Soc.*, **2018**, *95*, 981-985.

ISSN Number: 0019 4522

Impact factor: 0.3

22. Gold Catalysts with Highly Electronegative Counter Ions: An Investigative Overview, *Communique* **2019**, *12*, 1.

ISSN Number: 09738584

Impact factor: NA

23. Happiness through the Eye of a Chemist, **Panda, B.**, International Journal of HIT Transaction on ECCN, **2018**, *4 (2A)*, 15-19

ISSN Number: 09736875

Impact factor: NA

24. Love through the Eye of a Chemist, **Panda, B.** *Communique*, September **2018**, *11(1)*, 9-18.

ISSN Number: 09738584

Impact factor: NA

25. Happiness: A Chemist View, **Panda, B.** *Communique* **2017**, *10*, 51-56

ISSN Number: 09738584

Impact factor: NA

26. Cerium(III) Chloride Mediated Addition of Grignard Reagents to chloro-Azaphthalide ; 2-(4,6-Dichloro-2-hydroxymethyl-pyridin-3-yl)-propan-2-ol(gem-dimethyl alcohol), **Panda, B., A. Chemist, ChemSpider SyntheticPages, 2008,266,**

<http://cssp.chemspider.com/266>, DOI: 10.1039/SP266

ISSN: 0193-6484

Impact factor: NA

27. Guareschi cyclo-coupling of acetoacetate and cyanoacetamide; 3-cyano-2,6-dihydroxy-4-methylpyridine, **Panda, B., A. Chemist, ChemSpider SyntheticPages, 2008, 267,**

<http://cssp.chemspider.com/Article.aspx?id=267> ,DOI: 10.1039/SP267

ISSN: 0193-6484

Impact factor: NA

(ii) Post-Doctoral Publications (with Professor Tien-Yau Luh, NTU,Taiwan)

25. Stereospecific Synthesis of Poly(methylene-E-vinylene) by Ring Opening Metathesis Polymerization (ROMP) of Substituted Cyclopropene Using Grubbs Catalysts, Peng, J-J; **Panda, Biswajit;** Satyanarayana, K; Yang, H-R; Huang, S-L;Huang, M; Chen, C-H; Lai, G; Lai, Y-Y; Luh, T-Y, *Macromolecules* **2019**, *52*, 7749-7755.

ISSN: Print 0024-9297, Web 1520-5835

Impact factor: 5.918

(iii) Doctoral Publications (with Professor Tarun K. Sarkar, IITKGP)

26. Gold Catalysis: Regio- and Stereoselective Total Synthesis of Xyloketal D and Gand Related Natural Product Alboatrin, **Panda, B.;** Sarkar, T. K., *J. Org. Chem.* **2013**, *78*, 2413–2421.

ISSN: 0022-3263

Impact factor: 4.805

27. Gold and palladium combined for the Sonogashira-type cross-coupling of arenediazonium salts, **Panda, B.;** Sarkar, T. K., *Chem. Commun.* **2010**, *46*, 3131- 3133.

ISSN: 1359-7345

Impact factor: 6.290

28. Gold-Catalyzed Benzannulation of Electronically Rich/Rich and Deficient/ Deficient Oxoalkynes with Alkynes, **Panda, B.**; Sarkar, T. K., *Synthesis*, **2013**, *45*,1227–1234.
ISSN: 0039-7881
Impact factor: 2.722
29. Gold and Palladium Combined for the Sonogashira Coupling of Aryl and Heteroaryl Halides, **Panda, B.**; Sarkar, T. K., *Synthesis*, **2013**, *45*, 0817–0829.**ISSN:** 0039-7881
Impact factor: 2.722
30. An approach to highly functionalized quinolines and isoquinolines via a gold- catalyzed benzannulation, **Panda, B.**; Bhadra, J.; Sarkar, T. K., *Synlett*. **2011**, 689-693. **ISSN:** 0936-5214 (print) , 1437-2096(online)
Impact factor: 2.369
31. On the catalytic duo PdCl₂(PPh₃)₂/AuCl(PPh₃) that cannot effect a Sonogashira-type reaction: a correction, **Panda, B.**; Sarkar, T. K., *Tetrahedron Lett.* **2010**, *51*, 301-303. (**Top 25 Most Cited Article 2010-2011**)
ISSN: 0040-4039
Impact factor: 2.125
32. A domino Michael-Dieckmann-Peterson approach to the synthesis of substituted hydroxyquinolines and hydroxyisoquinolines, **Panda, B.**; Basak, S.; Hazra, A.; Sarkar, T. K. , *J. Chem. Res.* **2010**, *34*, 109-113.
ISSN: 1747-5198
Impact factor: 0.668
33. A one-pot tandem oxidation-reduction protocol for the synthesis of cyclic ethers from their diols, **Panda, B.**; Sarkar, T. K., *Tetrahedron Lett.* **2008**, *49*, 6701-6703. **ISSN:** 0040-4039
Impact factor: 2.125

BOOK Publications:

a. Full Book:

“Gold Catalysis and in Synergy with Palladium”Author
Dr.Biswajit Panda**ISBN** 9789353009007

B. Book Chapter

- i. Organometallic Chemistry: Volume 44, Editors: Nathan J Patmore, Paul I P Elliott, “Homogeneous gold catalysis under microwave irradiation: a greener approach” 2022, page- 68-91, Print **ISBN-** 978-1-83916-689-1, Publisher- **Royal Society of Chemistry**
- ii. “Thorpe-Ingold effect assisted Strained Ring Synthesis” 2022, page-34-42, book-Modern Approaches in Chemical and Biological Sciences, ISBN-978-967-2819-06-6, Publisher-Lincoln University of College, Malaysia
- iii. Proceeding of the International Conference on “Emerging Technologies for Sustainable Development

- (ICETSD-19)", Title: Gold Catalyzed Benzannulation of Pyridine-containing Oxoalkynes: Mechanistic Investigations, Page-68-72.....
Dr. Biswajit Panda ISBN 9788182111462.
- iv. Synthetic Studies Directed Towards Synthesis of Xyloketal A ,
book-Recent trends in CHEMICAL SCIENCE: few relevant issues, ISBN :
978-81-921084-1-4, KISHALOY PRAKASHAN
- v.
"The [3+2] Annulation Reactions of Allylsilanes: Discovery and
Developments", 2022, page-41-60, book name "Recent Trends in
Chemistry Research", ISBN 978-93-92145-05-6, publisher –
Techno World.
- vi. Applications of Heteroisobenzofurans in Natural and Non-
natural Product Synthesis, 116, 2023, Lincoln University of College:
Malaysia, ISBN 978-967-2819-22-6
- vii. Mechanistic Insights into Solvent Effects on Sonogashira
Coupling: A Brief Overview, 284, 2023, Walnut publication
ISBN 978-93-5911-1131-1
- viii. Gold Catalysis: Synthesis of Alboatrin and Xyloketal Natural
Products, 5.1, 2022, Narosa Publishing House, ISBN 978-81-8487-
715-1.
- ix. "High-Turnover Palladium Catalysts: Accelerating C-H Activation for
Sustainable Green Catalysis", Sustainable Green Catalytic Processes,
2024, Chapter-18, Pages-447-471, Publisher-John Wiley & Sons, Inc.,
ISBN:9781394212767
- x. Gold-Catalyzed Cycloisomerization of Ortho-Nitro-
Alkynylbenzene: Mechanistic Developments, Authors-Biswajit Panda,
Book-Exploration of Chemical Complexity, Volume-1, Pages-149-161,
Publisher-Lincoln University College, Malaysia
- xi. Effects of Solvent Polarity in the Sonogashira Coupling:
A Brief Overview, Authors-Biswajit Panda, Book-Sustainable
Chemical Insight in Biological Exploration, Volume-1, Pages-72-86,
Publisher-Lincoln University College, Malaysia