

Tithi Maity

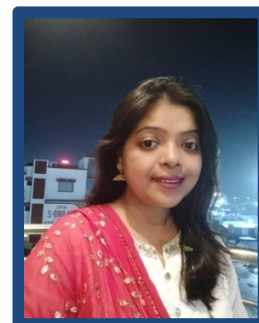
Department of Chemistry, Prabhat Kumar College, Contai

Contai, Purbamedinipur, west Bengal, India, 721404

Mobile number : 07908864532

Email: 1) tithi_chem@pkcollegecontai.ac.in

2) titlipkc2008@gmail.com



Present Position: *Assistant Professor*, Department of Chemistry, Prabhat Kumar College, Contai

Research Field: DNA/RNA/ Protein binding/ anticancer study of metal complex, Chemosensing/ polymer curing and toughening

Summary:

- 14 years research experience
- 12 years teaching experience in UG chemistry and three years experience in PG chemistry
- Coauthor of 34 publications in peer reviewed journals
- 11 edited books in different subject matter

Educational qualifications

2/1/2002-7/12/2007 Doctor of Philosophy (Chemistry), Vidyasagar University

2000-2002 Master of science with specialization in Inorganic Chemistry (1st class)
Vidyasagar University

1997-2000 Bachelor of Science (Honours in Chemistry, 1st class), The
Vidyasagar University

Awards

2020 Indian Chemical Society Research Excellency Award

2019 Out standing paper award by Science and Technology Biotechnology,
Government of West Bengal.

2022 Indo Asian – Research Excellence Award 2022 in Inorganic Chemistry
by REd Talks International, Vijayawada, Andhra Pradesh, India

Awards by group members

2020 A poster on “Development of Mn(II) 1D Polymer Having Effective DNA binding Efficacy and Anticancer Property” by Manik Das and Tithi Maity was selected for Best Poster Award in international conference GSPFM, 2020 by Rubber Technology Centre, IIT Kharagpur on 7-8th February.

2020 Research excellence award by ManiK Das (Manik Das and Tithi Maity) in RTCS 2020, Organized by Indian Chemical Society in collaboration with Royal Society of Chemistry and American Chemical Society.

2020 A poster on “Bidented Schiff Base Coordinated Cu(II) and Zn(II) Complexes : Synthesis, Crystal Structures, DNA/Protein Binding Molecular Modeling Study and Cellular Nuclear Morphology” by Manik Das (Tithi Maity) was selected as S. S. Bhatnagar Young Scientist Award by Indian Chemical Society in collaboration with American Chemical Society on 2nd August, 2020

Student mentorship

Four students are working their PhD works under my supervision

Projects ongoing / completed:			
Title	Funding Agency	Year	Amount (Rs.)
1. Curing and Toughening Studies of Epoxy Resin by Amine Terminated Synthesized Oligomers	UGC	2014-16	500000
2. Antimicrobial, DNA binding and anticancer study of new Schiff and Mannich base metal complex	West Bengal Science and Technology Biotechnology	2019	4,65,000

Complete publication list

Peer Reviewed Journals

1. Susmita Das, Manik Das, Soumik Laha, Karunamoy Rajak, Indranil Choudhuri, Nandan Bhattacharyya, Bidhan Chandra Samanta, Tithi Maity, *Journal of Molecular structure*, 2022, 1263. 133214
2. Pranabendu Das, Swati Singh Rajput, Manik Das, Soumik Laha, Indranil Choudhuri, Nandan Bhattacharyya, Arindam Das, Bidhan Chandra Samanta, Md Mehboob Alam, Tithi Maity, *Journal of Photochemistry Photobiology A:* , 2022, 427, 113817
3. Manik Das , Paola Brandao , Soumya Sundar Mati , Saikat Roy , Anakuthil Anoop , Anjima James , Susmita De , Uttam Kumar Das , Soumik Laha , Jisu Mondal , Bidhan Chandra Samanta and **Tithi Maity**, *Journal of Biomolecular Structure and Dynamics*, Published online: 29 Nov 2021, <http://dx.doi.org/10.1080/07391102.2021.2001377>
4. Kalyanmoy Jana, Ushasi Pramanik, Kapil S Ingle, Ribhu Maity, Saptarshi Mukherjee, Susanta K Nayak, Subhas Chandra Debnath, **Tithi Maity**, Swapan Maity, Bidhan Chandra Samanta, *Journal of Photochemistry Photobiology A: Chemistry*, 2022, 402, 113565
5. Dibyendu Satapathi, Manik Das, Karunamoy Rajak, Soumik Laha, Md. Maidul Islam, Indranil Choudhuri, Nandan Bhattacharyya, Sinjan Das, Bidhan Chandra Samanta, **Tithi Maity**, *Applied Organometallic Chemistry*, Published in 7th October, 2021 <https://doi.org/10.1002/aoc.6473>
6. Ribhu Maity, Nayim Sepay, Ushasi Pramanik, Kalyanmoy Jana, Saptarshi Mukherjee, Swapan Maity, Dasarath Mal, **Tithi Maity**, Bidhan Chandra Samanta, *The Journal of Physical Chemistry B*, 2021, 125, 41, 11364–11373
7. Manik Das, Biplab Koley, Uttam Kumar Das, Arijit Bag, Soumik Laha, Bidhan Chandra Samanta, Indranil Choudhuri, Nandan Bhattacharyya, **Tithi Maity**, *Journal of Photochemistry Photobiology: A Chemistry*, 2021, 415, 113302
8. Manik Das, Somali Mukherjee, Paula Brandao, Saikat Kumar Seth, Santanab Giri, Soumya Sundar Mati, Bidhan Chandra Samanta, Soumik Laha, **Tithi Maity**, *ACS OMEGA*, 2021, 6, 3659-3674

9. Kalyanmoy Jana, Ribhu Maity, Horst Puschmann, Anindita Mitra, Rita Ghosh, Subhas Chandra Debnath, Aparna Shukla, Arun Kumar Mahanta, **Tithi Maity**, Bidhan Chandra Samanta, *Inorganica Chimica Acta*, 2021, 515, 120067.
10. Manik Das, Somali Mukherjee, Biplab Koley, Indranil Choudhuri, Nandan Bhattacharyya, Pritam Roy, Bidhan Chandra Samanta, Manas Barai, **Tithi Maity**, *New Journal of Chemistry*, 2020, 40, 18347-18361
11. 24. K. Jana, S. Das, H. Puschman, S. C. Debnath, A. Shukla, A. K. Mohanta, H. Hosen, B. C. Samanta, **T. Maity**, *inorganic Chimica Acta*, 487, 2019, 128-137.
12. **Tithi Maity**, Haridas Mandal, Antonio Bauza, Bidhan Chandra Samanta, Antonio Frontera, Saikat Kumar Seth *New Journal of Chemistry*, 2018, 42, 10202-10213.
13. Kalyanmoy Jana, **Tithi Maity**, Somnath Das, Maidul Hossain, Subhas Chandra Debnath, Bidhan Chandra Samanta, Saikat Kumar Seth, *Journal of coordination Chemistry*, DOI: 10.1080/00958972.2018.1464654
14. Kalyanmoy Jana, **Tithi Maity**, Tufan Singha Mahapatra, Pradeep Kumar Das Mohapatra, Subhas Chandra Debnath, Somnath Das, Maidul Hossain, Bidhan Chandra Samanta, *Transition Metal Chemistry*, 42, 2017, 69-78
15. Kalyanmoy Jana, **Tithi Maity**, Subhas Chandra Debnath, Bidhan Chandra Samanta and Saikat Kumar Seth, *Journal of Molecular Structure*, 1130, 2017, 844- 854.
16. **T. Maity**, B. C. Samanta, *Pigment and Resin Technolog*, 45,2016, 184-190
17. **T. Maity**, B. C. Samanta, *Pigment and Resin Technolog*, 44, 2015, 19-25
18. B. C. Samanta, **T. Maity**, *Pigment and Resin Technolog*, 41, 2012, 344-350
19. **T. Maity**, B. C. Samanta, A. K. Banthia, S. Dalai, *Pigment and Resin Technolog*, 40, 2011, 285-291
20. **T. Maity**, B. C. Samanta, *Journal of Adhesion Science and Technology*, 24, 2010, 1031-1043
21. Bidhan Samanta, **Tithi Maity**, *Pigment and Resin Technolog*, 38, 2009, 380-386
22. **Tithi Maity**, Bidhan Samanta, *Pigment and Resin Technolog* 38, 2009, 285-289
23. **Tithi Maity**, Bidhan Samanta, A. K. Banthia, *Pigment and Resin Technolog*, 38, 2009, 143-152
24. **T. Maity**, B. C. Samanta, A. K. *Journal of Applied Polymer Scienc*, 110, 2008, 3717-3726
25. B. C. Samanta, **T. Maity**, S. Dalai, A. K. Banthia, *Pigment and Resin Technolog*, 37, 8, 3-8
26. B. C. Samanta, **T. Maity**, S. Dalai, A. K. Banthia, *Journal of Materials Science and Technology*, 24, 2008, 272-278
27. **T. Maity**, B. C. Samanta, S. Dalai, A. K. Banthia, *Polymer Engineering and Science*, 47, 2007, 1695-1702
28. **T. Maity**, B. C. Samanta, S. Dalai, A. K. Banthia,, *Materials Science and Engineering A*, 464, 2007, 38-46

29. **T. Maity**, B. C. Samanta, S. Dalai, A. K. Banthia, *Pigment and Resin Technol* , 36, 2007, 30-38
30. B. C. Samanta, **T. Maity**, S. Dalai and A. K. Banthia, *Pigment and Resin Technol*, 35, 2006, 216-223
31. B. C. Samanta, **T. Maity**, S. Dalai, A. K. Banthia, *Journal of Adhesion Science and Technology*, 20, 2006, 491-502
32. **T. Maity**, B. C. Samanta, S. Dalai and A. K. Banthia, *Journal of Applied Polymer Science*, 101, 2006, 3168-3174
33. **T. Maity**, B. C. Samanta, S. Dalai and A. K. Banthia, *Pigment and Resin Technology*, 35, 2006, 12-21
34. B. C. Samanta, **T. Maity**, S. Kar and A. K. Banthia, *Pigment and Resin Technology*, 34, 2005, 4-11

Proceeding Publications

1. **Tithi Maity**, Sritama Kar and Ajit. K. Banthia , Evaluation of Aniline- Formaldehyde Condensates as Modifiers for Epoxy Resin, *The 2nd International Conference on Structure Processing and Properties of Materials, SPPM2004*, 2004, 672-679.
2. B. C. Samanta, **T. Maity**, S. Dalai, A. K. Banthia, Mechanical and thermal properties of Cured Epoxy Toughened with Amine Terminated Poly (ethylene Glycol) Benzoate (ATPEGB), *International Symposium on Advance Materials and Processing, ISAMAP2k4*, 2004, 513-520.
3. B. C. Samanta, **T. Maity**, S. Dalai, A. K. Banthia, Thermal study of Cure Epoxy by New Aromatic Amine functional Curing Agents, *International Symposium on Advance Materials and Processing, ISAMAP2k4*, 2004, 521-527.
4. **T. Maity**, B. C. Samanta, S. Dalai, A .K. Banthia, Mechanical and Thermal Studies of Liquid ATPEGB Modified Epoxy-Red Mud Waste Composites, *2nd International Conference on Recent Advances in Composite Materials, ICRACM-2007*, 2007, 990-999.
5. **T. Maity**, B. C. Samanta, S. Dalai, A .K. Banthia, Effect of Amine Functional Aniline Formaldehyde Condensate (AFAFC) on Mechanical Properties of Glass Fiber Reinforced Epoxy, *2nd International Conference on Recent Advances in Composite Materials*, 2007, 226-238.

Edited Book:

Sl No	Title of the Book published	Year of Publication	Name of the Publisher	ISBN No.
i.	“Safe and Environment friendly Food Additives and Dyes”	2012	Readers Service, Kolkata - 700075	ISBN 978-81-87891-53-6

ii	“Toughening of Epoxy Networks by Some New Synthesized Toughening Agents”	2014	Scholar’s Press, Germany	ISBN 978-3-639-71147-9
iii	“Environment Friendly Biodegradable Polymers: Present and Future”	2016	Mallick Book Centre, Kolkata-73	ISBN : 978-81-926694-0-3
iv	Fluorosis and Arsenicosis: A Global Problem	2016	Nectar Kolkata-06	978-93-84241-08-7
V	Bharat Preme Pagalini Nivedita	2018	Annapurna Publishers	978-93-84387-54-9
Vi	Progress of Chemistry for the Sustainable Development of Mankind	2019	Techno World	978-81-926694-5-8
Vii	Chemistry and Biology Sustainable progress of Human	2020	Scientific World	978-93-84387-76-1
Viii	Contributions of Indian women to Science	2020	Scientific World	978-93-84387-75-4
X	Footprints of Indian Women	2021	Annapurna Publishers	978-93-84387-81-5

Book Chapter

- i) “Adverse Health Effects of Chemicals leaching from Plastic Food Containers”-B. C. Samanta and T. Maity in “Food Safety” **published by Readers Service, Kolkata – 700075 (ISBN 978-93-82623-15-1) (2013).**
- ii) “Use of Water as one of the Greener Alternatives in Organocatalysis”- B. C. Samanta and T. Maity in “Organocatalysis: New Methodologies for Sustainable Chemistry” **published by Readers Service, Kolkata – 700075 (ISBN 978-93-82623-44-1) (2015).**
- iii) “Synthetic Polymers vs. Biodegradable Polymers” – T. Maity in “Environment Friendly Biodegradable Polymers: Present and Future” published by Mallick Book Centre, Kolkata-73, (ISBN: 978-81-926694-0-3) (2016).
- iv) “Curing and Toughening study of Epoxy Resin with Amine Functional Polymers”- K. Jana, T. Maity, B. C. Samanta* in “Recent Trends in Research in Chemical Sciences”

published by Ghatal R. S. Mahavidyalaya, Paschim Medinipur -721212 (ISBN: 978-93-5267-187-8) (2016).

List of paper presentation in last few years

1	Safer Food - Better Health	National	Aug. 7 th & 8 th , 2013	P. K. College, Contai, Purba Medinipur, West Bengal	Adverse Health Effects of Chemicals leaching from Plastic Food Containers
2.	<i>Chemistry and Its Interface with other Scientific Disciplines</i>	National	December 12, 2014	Sitananada College, Nandigram, Purba Medinipur, West Bengal	Poster entitled "Interface of Chemistry with Biology and Physics through Formation and Structural determination of Biological Crystals"
3.	<i>Food Processing, Preservations and Packaging</i>	National	March 17-18, 2015	Department of Chemistry & Chemical Technology, Vidyasagar University, Paschim Medinipur, West Bengal, India	Poster entitled "Plastics – No more Safe in Food Processing and Packaging"
4.	<i>Environment Friendly Biodegradable Polymers: Present and Future</i>	National	September 9-10, 2015	Department of Chemistry, Mugberia Gangadhar Mahavidyalaya	Paper entitled "Synthetic Polymers vs. Biodegradable Polymers"
5.	<i>International Conference on Recent Trends in Energy Technologies (ICRTET-2016)</i>	International	January 21-23, 2016	HRC- IChE, Haldia Institute of Technology, Haldia, India	Paper entitled "Challenges in advanced fossil fuel technologies"
6.	<i>Recent Trends in Research in</i>	National	August 30,	Department of	Poster entitled "Curing and

	<i>Chemical Sciences</i>		2016	<i>Chemistry, Ghatal R. S. Mahavidyalaya, Ghatal, Paschim Medinipur</i>	Toughening study of Epoxy Resin with Amine Functional Polymers”
7.	<i>The Basics of Fluorescence with its Present-Day application</i>	<i>National</i>	<i>October 4th & 5th 2016</i>	<i>Department of Chemistry & Physics, Bajkul Milani Mahavidyalaya, Bajkul, Purba Medinipur</i>	Paper entitled “Use of Fluorescence Spectroscopy in the Interaction Study of DNA with Transition Metal Complexes”
8.	National Seminar on Science and Technology for National Development in India	<i>National</i>	December 12-13, 2016	ISCA, Bhubaneswar Chapter, Campus-6, KIIT University Bhubaneswar	Filler effect on thermo-mechanical properties of modified epoxy composite
9.	104 th Indian Science Congress Science and Technology for National Development	<i>National</i>	3 rd -7 th January, 2017	Sri Venkateswara University, NH 205, Tirupati - 517502, Andhra Pradesh, India	Effectiveness of Amine Functional Polymers as Curing and Toughening Agents for Epoxy Resin
10	<i>Recent Advancement on Multifunctional Material (RA2M-2016)</i>	<i>National</i>	<i>February 3rd & 4th 2017</i>	<i>Haldia Institute of Technology, Haldia, India</i>	Synthesis and Characterization of Amine Functional Polymeric Materials as Curing and Toughening Agents for Epoxy Resin
12.	<i>3rd Regional Science and Technology Congress, 2018</i>	<i>National</i>	<i>20-21th December, 2018</i>	<i>Sidhu Kanu Birsa University and Department of Science and Technology</i>	<i>DNA Binding, Antibacterial study of Co(II) Schiff Base Metal Complex</i>

				<i>West Bengal</i>	
13.	<i>International Symposium on Recent Advances in Chemistry and Material Science, 2019</i>	<i>International</i>	<i>2-3rd August, 2019</i>	<i>Indian Chemical Society</i>	Anticancer and DNA binding ability of two new Schiff base metal complex.
14.	<i>4th Regional Science and Technology Congress, 2019</i>	<i>National</i>	<i>21-22nd December, 2019</i>	<i>MAKAUT and Department of Science and Technology West Bengal</i>	Evaluation of Novel Cu(II) and Ni(II) Complexes of piperidine Derivative: Promossing Anticancer, DNA binding and Molecular Modelling Study.
15.	<i>Innovation, Expansion, Impact and Challenges in Chemical and Biological Science</i>	<i>International</i>	<i>8-9th January, 2020</i>	<i>Dept. of Chemistry, Surendranath College.</i>	A promossing Anricancer property of Schiff base metal complexes.
16.	<i>27th West Bengal State Science and Technology Congress, 2020</i>	<i>International</i>	<i>28-29th February, 2020</i>	<i>of Science and Technology West Bengal</i>	Evaluation of Novel Cu(II) and Ni(II) Complexes of piperidine Derivative: Promossing Anticancer, DNA binding and Molecular Modelling Study