

CV



1. Personal Details

- 1.1. Name : Dr. RASHMI REKHA MOHANTA
1.2. Designation : Assistant Professor of Chemistry
1.3. Latest Qualifications : Ph.D. in Chemistry
1.4. Office Address : Department of Chemistry, Rajdhani College, Bhubaneswar, Odisha
1.5. Email :rashmichemistry83@gmail.com
1.6. Date of Birth :05.02.1983
1.7. Mobile :8895555219
1.8. PAN Card No :BGHPM4781N

2. Academic Background:

Sl. No	Year	Examination Passed	Institute / School	University/ Board	% of marks secured	Remarks
1	2015	Ph.D.(Chemistry)	SIKSHA 'O' ANUSANDHAN UNIVERSITY, BHUBANESWAR	SIKSHA 'O' ANUSANDHAN UNIVERSITY, BHUBANESWAR	-	Awarded
2	2009	M.Phil. (Chemistry)	NORTH ORISSA UNIVERSITY, BARIPADA	NORTH ORISSA UNIVERSITY, BARIPADA	66.75	1st Division
3	2005	M.Sc. in Chemistry (Specialization in Organic Chemistry)	NORTH ORISSA UNIVERSITY, BARIPADA	NORTH ORISSA UNIVERSITY, BARIPADA	66.08	1st Division
4	2002	B.Sc. (Chemistry Hons)	KARANJIA (AUTONOMOUS) COLLEGE, KARANJIA, MAYURBHANJ	NORTH ORISSA UNIVERSITY, BARIPADA	66.25	1st Division with distinction
5	1999	+2 Science	KARANJIA (AUTONOMOUS) COLLEGE, KARANJIA, MAYURBHANJ	CHSE, ODISHA	60.33	1st Division
6	1997	HSC	GOVT. GIRLS HIGH SCHOOL, KARANJIA, MAYURBHANJ	BSE, ODISHA	67.46	1st Division

3. Career Data / Experience (Teaching / Industry / Research):

Name of Institution	Rank	Year		Nature of job
		From	To	
Rajdhani College, Bhubaneswar	ASSISTANT PROFESSOR	29.08.2023	TILL DATE	TEACHING & RESEARCH
K.B.D.A.V college, Nirakarpur, Khordha, Odisha	LECTURER	01.06.2017	28.08.2023	TEACHING & RESEARCH
Rairangpur College, Rairangpur, Mayurbhanj, Odisha	LECTURER	04.10.2016	31.05.2017	TEACHING & RESEARCH
College of Eng. & Technology, Bhubaneswar	LECTURER	01.02.2016	03.10.2016	TEACHING & RESEARCH
Krupajal Enng. College, Bhubaneswar	LECTURER	18.02.2010	31.01.2016	TEACHING & RESEARCH
KISD, Bhubaneswar	LECTURER	01.08.2009	17.02.2010	TEACHING

4. Research Interest and area of specialization):

Broad area : Chemistry

Area of specialization: Inorganic chemistry, High Dielectric Oxides, Material Science

5. Publication in International/National Journals (in descending order of year)

Sl. No	Title of the paper (Accepted / Online /Published)	Authors in Sequence	Journal Name	International / National	Year: Volume: Number : Page Range: DOI
1.	Improving the energy storage efficiency and power density of polymer blend in combination with $Ti_3C_2T_x$ for energy storage devices	N.K. Nath, R.R. Mohanta , R.K. Parida, B.N. Parida, N.C. Nayak	Materials Today Chemistry	International	2024:Vol. 41: pp. 102338(1-15). DOI: 10.1016/j.mtchem.2024.102338
2.	Structural, morphological, and dielectric properties of poly(vinylidene fluoride)/ $(Bi_{0.5}Ba_{0.25}Sr_{0.25})(La_{0.5}Ti_{0.5})O_3$ composites	N.K. Nath, R.R. Mohanta , R.K. Parida, B.N. Parida, N.C. Nayak	Journal of Applied Polymer Science	International	2024:Vol. 10(1): pp. e55729(1-13). DOI: 10.1002/app.55729
3.	A first principle DFT study of electronic structure and magnetic properties of $CsFe_2Se_2$	G.Panda, S. Jata, S. Hota, R.R. Mohanta , K.L. Mohanta	Procedia Environmental Science, Engineering and Management	International	2023:Vol. 141(31): pp. 175–184.

4.	Nano-pattern formation on SrTiO ₃ /Si(111) surface	R. R. Mohanta , V. R. R. Medicherla et al.	AIP Conf. Proc.	International	2018:Vol.2005: pp. 030006(1-3). DOI: 10.1063/1.5050737
5.	Preparation and Characterization of TiO ₂ Film on Si(111) Surface	R. R. Mohanta , V. R. R. Medicherla et al.	Adv. Sci. Lett.	International	2016: Vol. 22: No.2: pp. 442-444. DOI: 10.1166/asl.2016.6844
6.	Ion beam induced Chemical and Morphological changes in TiO ₂ films deposited on Si(111) surface by Pulsed Laser Deposition	R.R. Mohanta , V.R.R. Medicherla, K.L. Mohanta, Nimai C. Nayak, S. Majumder, V. Solanki, Shikha Varma, Komal Bapna, D.M. Phase, V. Sathe	Applied Surface Science	International	2015:Vol.325: pp. 185-191. DOI: 10.1016/j.apsusc.2014.11.044
7.	Comparison of Core Levels of Bulk and Thin Film of BaTiO ₃	R. R. Mohanta , V. R. R. Medicherla, K. L. Mohanta, Nimai C. Nayak, V. Solanki, Shikha Varma	Adv. Sci.Lett.	International	2014: Vol. 20: No.3-4: pp. 584-587. DOI: 10.1166/asl.2014.5406
8.	X-Ray Photoelectron Spectroscopic Study of Bulk SrTiO ₃	R. R. Mohanta , V. R. R. Medicherla, K. L. Mohanta, Nimai C. Nayak, V. Solanki, Shikha Varma	Adv. Sci.Lett.	International	2014: Vol. 20: No.3-4: pp. 703-704. DOI: 10.1166/asl.2014.5407
9.	Reduction of anatase TiO ₂ on Si(111) by ion beam sputtering	V. R. R. Medicherla, R. R. Mohanta , K. L. Mohanta et. al.	AIP Conf. Proc.	International	2012:Vol.1461: p. 403-407, DOI: 10.1063/1.4736930

6. Seminar/ Conference/ Workshop attended /Organized in descending order

Sl. No	Title	Seminar/ Workshop/ Conference/FDP	International / National	Attended/Organized/Paper Presentation/Chairperson/Faculty	Title of the paper with list of Author's	Date (MM/DD/Y Y)	Whether published in Souvenir / Abstract Book / Proceedings / E-Publications	Host Institution
1.	World Environment Day & One day workshop on Scientific Writing	Workshop	National	Attended		June, 5, 2025		Dept. of Chemistry, ITER, Siksha 'O' Anusandhan University, Bhubaneswar

2.	2nd International Conference on "Advances in Energy and Environment for Sustainable Development" (AEESD-2025)	Conference	International	Paper Presented	Preparation and characterization of Sodium Bismuth Titanate ceramics, R. R. Mohanta , K. L. Mohanta, S. K. Parida	March, 28-29,2025	Abstract Book	Dept. of Chemistry, ITER, Siksha 'O' Anusandhan University, Bhubaneswar
3.	Advanced Functional Material and it's Characterizations (AFMC-2024)	Workshop	National	Attended		September, 28,2024		MRSI and SMC, Bhubaneswar & Siksha 'O' Anusandhan, University, Bhubaneswar
4.	Sustainable Chemistry for Environmental Protection	FDP	National	Attended		January, 9-14,2023		Dept. of Chemistry, ITER, Siksha 'O' Anusandhan University, Bhubaneswar
5.	International Conference on Advanced Materials & Applications (ICAMA-2022)	Conference	International	Paper Presented	Gadolinium modified KBT ceramics, R. R. Mohanta , K. L. Mohanta, S. K. Parida	December, 15-17,2022	Abstract Book	Dept. of Physics, ITER, Siksha 'O' Anusandhan University, Bhubaneswar
6.	National Conference on "Advances in Condensed Matter Physics" (ACMP-2020)	Conference	National	Paper Presented	Synthesis and characterization of lead free NaBiTiO ₃ (NBT) ceramics, R. R. Mohanta , K.L. Mohanta, S.K. Parida	December, 3-4,2022	Abstract Book	Post Graduate Department of Physics, Government (Autonomous) College, Angul
7.	Advanced in Instrumental Techniques for Identification and Characterization of Materials	FDP	National	Attended		September, 20-24,2021		Dept. of Chemistry, ITER, Siksha 'O' Anusandhan University, Bhubaneswar
8.	International Webinar on Biochemical and Biomedical Approach on COVID-19	Webinar	International	Attended		November, 7, 2020		Dept. of Chemistry, Upendranath College, Soro, Balasore

9.	International Workshop on Advanced Materials (IWAM-2017)	Workshop	International	Paper Presented	Nano-pattern formation on SrTiO ₃ /Si(111) surface R.R. Mohanta et al.	December, 19-21, 2017	Abstract Book	National Institute of Science and Technology, Berhampur
10.	Emerging Trends in Advanced Functional Materials	Conference	International	Paper Presented	Preparation and characterization of SrTiO ₃ film on Si(111) surface R.R. Mohanta et al.	January, 18-21, 2016	Abstract Book	NISER, Bhubaneswar
11	International Conference on "Current Trends in Condensed Matter Physics" NISER, Bhubaneswar	Conference	International	Attended		February 19-22, 2015		NISER, Bhubaneswar
12	DAE-BRNS 7 TH National Symposium on Pulsed Laser Deposition on Thin Films and Nano structured Materials (PLD-2013)	Seminar	National	Paper Presented	R. R. Mohanta , V.R.R. Medicherla and Nimia C. Nayak "Growth and annealing studies of HfO ₂ on Si(100)"	November 14-16, 2013	Abstract Book	IIT Kharagpur
13	National Conference on Condensed Matter Physics (CMDAYS 12)	Conference	National	Paper Presented	R. R. Mohanta , V.R. R. Medicherla and Nimai C. Nayak "XPS and AFM study of BaTiO ₃ "	August 29-31, 2012	Abstract Book	BIT, Mesra, Ranchi.
14	National Workshop on New and Nano materials (WNNM-2012)	Workshop	National	Paper Presented	V. R. R. Medicherla, R. R. Mohanta and Nimai C. Nayak "XPS study of Tantalum Oxides on Si (100) surface"	January 20-21, 2012	Abstract Book	Institute of Material Science, Bhubaneswar
15	99 th Indian Science Congress	Seminar	National	Paper Presented	V. R. R. Medicherla, R. R. Mohanta and Nimai C. Nayak "Growth and thermal stability of Ta ₂ O ₅ on Si (100) surface"	January 3-7 2012	Abstract Book	KIIT University, Bhubaneswar & NISER, Bhubaneswar.
16	International Workshop on Functional	Workshop	International	Paper Presented	Reduction of Anatase TiO ₂ on Si(111) by Ion	December 20-22, 2011	Proceedings	NIST, Berhampur

	materials (IWFM-2011)				beam sputtering, V. R. R. Medicherla, R. R. Mohanta , K. L. Mohanta, Nimai C. Nayak et al.			
17	Lecture in Photoemission (LOP) and one day workshop on "Photoemission Studies of Advanced Materials (PSAM)"	Work shop	National	Attended		Dec. 8 – 13, 2011		Institute of Physics (IOP), Bhubaneswar
18	77 th BRNS- IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes	Workshop	National	Attended		November 28- December 6, 2011		ITER, Siksha 'O' Anusandhan University, Bhubaneswar
19	International Conference on Current Trends in Condensed Matter Physics (CTCMP-2010),	Conference	International	Paper Presented	Electronic Properties of high dielectric oxide layres on Si, R. R. Mohanta , K. L. Mohanta and V. R. R. Medicherla	December 15-19, 2010	Abstract Book	NISER, Bhubaneswar

7. List of Manuscript Submissions (Send for Publications): 01

8. Professional Society Membership (Provide the registration number):

- (i). Patron member, Orissa Chemical Society (OCS)
- (ii). Life Member, Indian Association of Nuclear Chemists and Allied Sciences (IANCAS)

Declaration

I do hereby declare that all the above information furnished by me are true and correct to the best of my knowledge.

Date: 30.07.2025

Dr. Rashmi Rekha Mohanta

Place: Bhubaneswar