CURRICULUM VITAE

Dr. Chandrakanta Mall
C/O Prof. Prem Prakash Solanki
Lab No. 22
Department of Chemistry
Institute of Science
Banaras Hindu University
Varanasi-221005
Uttar Pradesh, India

1. Academic Qualifications

Class	Subject	University	Year of Passing	Percentage
Matriculation (Class10th)	SCIENCE, MATHAMATICS, HINDI, ENGLISH, SOCIAL SCIENCE, SANSKRIT	Kasturba Government Girl's Inter College, Deoria, U.P., India. (UP Board)	2004	60.50
Intermediate (10+2)	CHEMISTRY, PHYSICS, BIOLOGY, HINDI, ENGLISH	Kasturba Government Girl's Inter College, Deoria, U.P., India. (UP Board)	2006	67.40
B.Sc. (Biology)	CHEMISTRY, ZOOLOGY, BOTANY	St. Andrew's college, Gorakhpur, Dean Dayal Upadhyaya Gorakhpur University, Gorakhpur, U.P., India	2011	69.33
M.Sc.	CHEMISTRY	Banasthali Vidyapith, Banasthali, Rajasthan	2013	80.51
NET	CHEMICAL SCIENCES	CSIR-UGC (DECEMBER 2013)	2013	33 (AIR)

2. Doctral Degree

Subject	University/Institute	Title of thesis	Year of PhD degree awarded
Chemistry	Banaras Hindu University, Vraransi-221005, Uttar Pradesh, India	*Studies on molecular interaction of oxazine and thiazine dyes with anionic, cationic and non-ionic surfactants for enhancement of performance of photogalvanic cell*	2020

3. Diploma degrees

Class	Subject	University	Year of Passing	Grade
B. Sc. I	Data Base Management Syatem (DBMS)	St. Andrew's college, Gorakhpur, Dean Dayal Upadhyaya Gorakhpur University, Gorakhpur, U.P., India	2008-2009	A
B. Sc. II	Bio-technology		2009-2010	A
B. Sc. III	Industrial Chemistry		2010-2011	A

4. Fellowship award

National Level	National Fellowship for Other Backward Classes (OBC) for the Year 2016-17 to pursue M. Phil/Ph. D. Degree	University Grants Commission New Delhi	01-04-2016 to 30-03-2018 as JRF 01-04-2018 to 30-03-2021 as SRF

5. Published/under review Research Articles

S. No	Publication Type	Title of the Paper	Journal Name	Year	Vol. No.	Page No.	ISSN No.	Impact Factor
1.	UGC listed (SCOPUS)	Spectrophotometric and conductometric studies of molecular interaction of brilliant cresyl blue with cationic, anionic and non-ionic surfactant in aqueous medium for application in photogalvanic cells for solar energy conversion and storage **Chandrakanta Mall**, Prem Prakash Solanki	*Energy Reports*	2018	4	23-30	2352-4847	Between 5 and 10
2.	UGC listed (SCOPUS)	Comparison of dye (oxazine and thiazine) materials as a photosensitizer for use in photogalvanic cells based on molecular interaction with sodium dodecyl sulphate by spectral study **Chandrakanta Mall**, Shachi Tiwari, Prem Prakash Solanki	*Journal of Saudi Chemical Society*	2019	23	83-91	1319-6103	between 2 and 5
3.	UGC listed (SCOPUS)	Correlation between photoelectrochemical and spectrophotometric study of dye surfactant combination in photogalvanic cell **Chandrakanta Mall**, Shachi Tiwari, Prem Prakash Solanki	*Applied Solar Energy*	2019	55	18-29	0003-701X	between 1 & 2
4.	Peer Reviewed	Surfactant and its applications: A review Shachi Tiwari, **Chandrakanta Mall**, Prem Prakash Solanki	*International Journal of Engineering Research and Application*	2018	8	61-66	2248-9622	Between 5 and 10
5.	UGC listed (SCOPUS)	CMC studies of CTAB, SLS & tween80 by spectral and conductivity methodology to explore its potential in photogalvanic cell. Shachi Tiwari, **Chandrakanta Mall**, Prem Prakash Solanki	*Surfaces and Interfaces*	2020	18	100427	2468-0230	between 2 and 5
6.	UGC listed (SCOPUS)	UV-visible spectrophotometric and photochemical characterization of safranine-fructose-sodium lauryl sulphate system in photogalvanic cell Amulyacharya Malviya**, Chandrakanta Mall**, Prem Prakash Solanki	*Applied Solar Energy*	2020	56	371-382	0003-701X	between 1 & 2
7.	UGC listed (SCOPUS)	Studies of binding of oxazine and thiazine dyes with CTAB and tween 80 surfactant spectrophotometrically for the photogalvanic **Chandrakanta Mall**, Shachi Tiwari, Prem Prakash Solanki	*Surfaces and Interfaces*	2021	27	101547	2468-0230	between 2 and 5
8.	UGC listed (SCOPUS)	Evaluation of mixed dye combination by spectral study for the application as photosensitizer in photogalvanic cells for solar energy conversion and storage Shachi Tiwari, **Chandrakanta Mall**, Prem Prakash Solanki	*Surfaces and Interfaces*	2022	29	101688	2468-0230	between 2 and 5

9.	UGC listed (SCOPUS)	A plausible mechanism in premicellar aggregates for photocurrent generation in photogalvanic cells for simultaneously solar power conversion and storage **Chandrakanta Mall**, Shachi Tiwari, Prem Prakash Solanki **Under Review** in *Journal of Energy Conversion and Management*

6. Book Chapter in book

Authors	Title of book chapter	Publisher	Year
Chandrakanta Mall, Prem Prakash Solanki.	Renewable energy in India: Current potential, Challenges and Future Prospects	Springer Nature Singapore Pte Ltd. 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore (the "Publisher"), 2020	**2021**

7. Oral and Poster Presentations

S.N.	Type of Participation	Title of Presentation	Status	Subject of Conference / Seminar / Symposium / Workshop	Organizing Institution / and Name of City / Country	Duration From	Duration To
1.	Oral Presentation	Spectral study of heterocyclic dyes with cationic and non-ionic surfactant in alkaline medium to explore its application in photogalvanic cell	National	3rd National Conference on Materials for Energy Conversion and Storage	School of Material science and Technology IIT(BHU), Varanasi, in Association With Energy Science Society of India	18-10-2018	20-10-2018
2.	Oral Presentation	Comparative study of effect of cationic, anionic and non ionic surfactants on electrical output of brilliant cresyl bluefructose system in photogalvanic cell for solar power conversion and storage	Internationa l (within country	Second International Conference on Electrochemical Science and Technology	Indian Institute of Science, Banglore, India 10-12 August 2017	10-08-2017	12-08-2017
3.	Oral Presentation	UV-visible spectroscopic and photochemical characterization of safranine-fructosesodium lauryl sulphate in photogalvanic cells for solar energy conversion	Internationa l (within country	Global Conference on Renewable Energy	NIT, Patna Bihar India	04-03-2016	06-03-2016
4.	Poster Presentation	Role of Dye-Surfactant Interaction in Photogalvanic Cells for Solar Energy Conversion and Storage	National	Chemical Science Section of the 106rd Indian Science Congress	Lovely Professional University, Jalandhar, Punjab-144411	03-01-2019	07-01-2019
5.	Poster Presentation	Spectral and Photogalvanics Characterization of Methylene Blue Dye with SDS, CTAB and Tween 80 Surfactant	National	National Symposium on Emerging Trends in Chemical Sceience-2018	Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi-05	17-11-2018	18-11-2018
6.	Poster Presentation	UV-visible spectral studies of molecular interaction of oxazine and thiazine dyes with sodium dodecyl sulphate in alkaline	Internationa l (within country)	Indo-US International Conference on "Nanotechnology Science and Application in	Department of Chemistry, Institute of Science, Banaras Hindu University,	19-12-2016	22-12-2016

		medium for application in photogalvanic cells for solar conversion and storage		Advanced Materials and Beyond (NSAAMB-2016)	Varanasi-05		
7.	Poster Presentation	Spectrophotometric and conductometric studies of molecular interaction of Brilliant Cresyl Blue with cationic, anionic and nonionic surfactant in aqueous medium	National	Chemical Science Section of the 103rd Indian Science Congress	University of Mysore, Mysuru	03-01-2016	07-01-2016
8.	Poster Presentation	Comparative study of reductants fructose and ascorbic acid with BCB redox system in photogalvanic cell for solar power conversion and storage	National	National Symposium on Contemporary Trends and Future Prospects of Functional Materials (CTFM-2019)	Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi-221005	29-11-2019	30-11-2019
9.	Poster Presentation	Photogalvanic cells: As solar power harvesting and storage device simultaneously	International (within country)	World Environment Summit 2020	Vallabhbhai Patel Chest Institute, University of Delhi, New Delhi	18-01-2020	19-01-2020
10.	Oral Presentation	Spectral and photogalvanic study to correlate stability and performance of the photogalvanic cell for simultaneous solar power conversion and storage	International (within country)	58th Annual Convention of Chemists & International Conference on Recent Trends in Chemical Science (ACC-RTCS-2021)	Indian Chemical Society, Kolkata	21-12-2021	24-12-2021

Personal Information:

Name : Dr. Chandrakanta Mall
Husband's Name : Late Mr. Vishnu Pratap Singh
Father's name : Mr. Mukhtar Mall
Date of birth : 23/06/1990
Category : OBC
Nationality : Indian
Marital status : Widow
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Declaration:

I hereby declare that the information stated above is true & correct to the best of my knowledge.

Place : Varanasi
Date : 4th May, 2022

Chandrakanta Mall

(Chandrakanta Mall)