# **Detailed Bio data**

- Name & full correspondence address: Dr. Vinita Assistant Professor, Department of Chemistry, Deen Dayal Upadhyaya Gorakhpur University Gorakhpur-273009
- 2. Email(s) and contact number(s) : <u>vinitavermabhu@gmail.com</u> vinita.chem@ddugu.ac.in Mob No. +918808988521
- 3. **Institution:** Department of Chemistry, DDU Gorakhpur University, Gorakhpur
- 4. **Date of Birth:** 01-01-1990
- 5. Gender: F
- 6. Whether differently abled: No

## 7. Academic Qualifications (Undergraduate Onwards):

S.No.	Degree	University	Year	Subjects	Percentage
1.	B.Sc.	Banaras Hindu University (BHU), Varanasi, UP, India	2011	Chemistry Hons	67.60% (first class)
2.	M.Sc.	Banaras Hindu University (BHU), Varanasi, UP, India	2013	Inorganic Chemistry	71.30% (first class)
3.	Ph.D.	Indian Institute of Technology, BHU, Varanasi, UP, India	2019	Materials Chemistry	88.80% (Ph.D. Course Work) (first class)

# 8. Ph.D. thesis title, Guide Name, Institute/Organization/University, Year of Award:

Ph.D.: Materials Science

**Thesis Title:**Synthesis of metal nanomaterials and coordination polymers for<br/>catalytic & sensing applications.

Thesis Supervisor: Prof. Rajiv Prakash

Institute/University: Indian Institute of Technology, BHU, Varanasi, India.

Date of Ph.D. Registration: 23<sup>rd</sup> July 2015

Date of Thesis Submission: 28th June 2019

Year of Award: 08th November 2019

## 9. Teaching experience (in chronological order)

S. No.	Organization	Designation	From	То	Pay Scale	
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1.	Department of Chemistry, Deen Dayal Upadhyaya Gorakhpur	Assistant Professor	04-07-2018	Cont.	68900- 205500
	University, Gorakhpur-273009				

# 10. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of Award	Awarding Agency	Year
1.	GATE 2015	MHRD	2015
2.	CSIR-JRF 2015	CSIR	2015
3.	GATE 2016	MHRD	2016
4.	CSIR-JRF 2016	CSIR	2016
5.	Best Poster Award	NSC 45 Conference	2017
6.	Best Poster Award	IIT BHU	2018
7.	Runner-up Award for best research work	IIT BHU	2018
8.	Best Teacher Award	DDU Gorakhpur University	05/09/
			2022

# 11. Publications (List of SCI journals, in year wise descending order)

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S.No			Name of	0 /		
•	Author(s)	Title	Journal	Volume	Page	Year
1.	Vinita, Narsingh R. Nirala, Rajiv Prakash		Microchemic al journal	167	10631 2	2021
2.	Vinita, Madhu Tiwari, Neha Agnihotri, Monika Singh, Akhilesh Kumar Singh, and Rajiv Prakash	Nanonetwork of Coordination Polymer AHMT-Ag for the Effective and Broad Spectrum Detection of 6-Mercaptopurine in Urine and Blood Serum	ACS OMEGA	4	1673 3-16 742	2019
3.	Vinita, Narsingh R. Nirala, Rajiv Prakash	One step synthesis of AuNPs@MoS2- QDs composite as a robust peroxidase- mimetic for instant unaided eye detection of glucose in serum, saliva and tear	Sensors and Actuators B	263	109– 119	2018
4.	Vinita, Madhu Tiwari, Rajiv	Colorimetric detection of picric	Applied Surface	Volume 449	Page s	15 August 2018,

	Prakash	acid using silver nanoparticles modified with 4- amino-3-hydrazino- 5-mercapto-1,2,4- triazole	Science	doi.org/10. 1016/j.aps usc.2018.0 1.198	174- 180	
5.	Vinita, Narsingh R. Nirala, Madhu Tiwari, Rajiv Prakash	A nanoporous palladium(II) bridged coordination polymer acting as a peroxidase mimic in a method for visual	Microchimic a Acta	185(4) : 245	1-10	2018
	Narsingh R. Nirala, Vinita, Rajiv Prakash	determination of choline in milk and serum based on the use of MoS2	Microchimic a Acta	185(4):224	1-8	2018
7.	Khandelwal, Brijesh Kumar, Vinita, Rajiv	One step electro- oxidative preparation of graphene quantum dots from wood charcoal as a peroxidase mimetic		173	36– 43	2017

# 12. Detail of patents.

S.No	Patent Title	Name of Applicant(s)	Patent No.	Filed Date	Agency/ Country	Status
	A portable					
	biosensing					
	system and					
	method for					
	visual					
	detection of					
	glucose in	Rajiv Prakash,				
	biological	Narsingh R.	2018110103	March 21,		Granted(20
1	fluids.	Nirala, Vinita	52	2018	India	22)
	A portable					
	Test kit for					
	detection of	Rajiv Prakash,				
	glucose in	Vinita,				
	biological	Narsingh R.	2018110092	March 13,		Granted(20
2	fluids and a	Nirala	39	2018	India	22)

method			
thereof.			

#### 13.Books/ Reports/Chapters/General articles etc

Title of the	Title of	Name and Adress of publisher	Authers	ISBN	Year of
book	chapter		name	Number	publication
Environmental aspect of alternative energy sources	Role of Coordination polymers in fuel cell application	Bharti Publications 4819/24, 3rd Floor, Mathur Lane Ansari Road, Darya Ganj, New Delhi- 110002 Phone: 011-23247537 Mobile : +91-989-989-7381 E-mail : bhartipublications@gmail.com info@bharatipublications.com	Vinita	978-93- 89657- 43-2	2020
Versatile Solicitations of Material Science in Diverse Science Fields	Nanomaterials as Intrinsic Enzyme Mimetic Catalysts	Website : www.bhartipublications.com Nova Science Publishers	Vinita	978-1- 53619- 763-1	2021
Emerging nanomaterials and their impact on society in the 21st century	Nanoemulsions: Preparation, Properties and Applications	Materials Research Foundations, Vol. 135, pp 200-225, 2023 DOI: https://doi.org/10.21741/9781644902172- 9	Preeti Gupta, Vinita, S.S. Das	<u>978-1-</u> <u>64490-</u> <u>216-5</u>	2023

## 14. Any other relevant information

#### Seminar/ Conference Paper Presented:

- (i) National Seminar on Molecules to Materials for Sustainable development, Vinita, Department of Chemistry DDU Gorakhpur University, (25-26 March 2022)
- (ii) 2nd National Seminar on Applied Research organized by RESEARCH DEVELOPMENT CELL SHARDA UNIVERSITY on 28-30 December 2022
- (iii) Coordination Polymer for Catalysis and Sensing, Vinita, Oral Presentation in National Seminar on Applied Research held online at Research Development Cell, Sharda University, Greater Noida, UP, India on 21-22 October 2021.
- (iv) Functional Nanomaterials in Catalysis and Sensing Applications, Vinita, Oral Presentation in International Conference on Sustainable and Futuristic Materials (SFM-2021) at Department of Chemistry, Kamla Nehru Mahavidhyalaya, Nagpur on 29-30 November, 2021.
- (v) Deliverd Invited lecture on "Importance of Innovation in Medical Diagnosis and Treatment." Organized by Department of Chemistry, K.N. Govt. P.G. College, Gyanpur, Bhadohi under DBT Star College Scheme on 31<sup>st</sup> March 2021.

- (vi) Oral presentation in the "International Conference on Futuristic Materials (ICFM-20)" organized by Department of Physics DDU Gorakhpur University India (Dec 18-20, 2020)
- (vii) Oral presentation in the "National Conference on Omics for Food, Health and Environment" (OFHE-2020) organized by Department of Biotechnology DDU Gorakhpur University India (Feb 14-15, 2020) on the topic "Nanomaterials acting as a peroxidase mimic in Biosensing.
- (viii) Oral presentation in the "National Conference on Smart And Sustainable Technology" (NCSMST-2019) organized by Department of Chemistry, DDU Gorakhpur University India (Feb 23-24, 2019) on the topic Nanomaterials acting as a peroxidase mimic for visual detection of glucose.
- (ix) Oral presentation in 4<sup>th</sup> International Conference on Electrochemistry organized by Rome, Italy (June 11-12, 2018) on topic Nanocrystalline scaffold of AMT-Ag for Electro-sensing of ciprofloxacin drug in biological fluid and pharmaceutical formulation.
- (x) Poster presentation in Institute day 2018 on Nanomaterials organized by Indian Institute of Technology, BHU, Varanasi.(2018)
- (xi) Poster presentation in International Conference on Emerging Trends in Chemical Sciences (ICETCS 2018) Conference organized by Department of Chemistry, Deen Dayal Upadhyay University, Gorakhpur, India (Feb 24-25, 2018)
- (xii) Oral presentation in the 4<sup>th</sup> international conference on Nanoscience and Nanotechnology (ICONN 2017) organized by SRM University India (Aug 9-11, 2017)
- (xiii) Poster presentation in 45<sup>th</sup> national seminar on crystallography (NSC 45) Conference organized by School of Materials Science and Technology, IIT, BHU, Varanasi, India (July 9-12, 2017)
- (xiv) Poster presentation in Institute day 2017 on Nanomaterials and Nanotechnology organized by Indian Institute of Technology, BHU, Varanasi, UP, India (Feb 25-26, 2017)
- (xv) Poster presentation in National conference on energy, environment and its impact on society (NCEEIS-2017) organized by Faculty of Science, K.N.G.P.G. College, Gyanpur, Bhadohi, UP, India (Jan 19-20, 2017)
- (xvi) Poster presentation on 4<sup>th</sup> international conference on advances in materials and materials processing (ICAMMP-IV) organized by department of metallurgical and Materials Engineering, IIT, Kharagpur (Nov 5-7, 2016).

#### Workshop/Seminar/Webinar attended:

- (1) Science Academics Lecture Workshop on Molecular Spectroscopy: Theory, Instrumentation and Application organized by department of Chemistry, Faculty of Science, Banaras Hindu University (2-3 March, 2012)
- (2) 15<sup>th</sup> CRSI National Symposium in Chemistry organized by department of chemistry, Faculty of Science, Banaras Hindu University, Varanasi, India (1-3 Feb, 2013)
- (3) 7<sup>th</sup> RSC-CRSI Symposium in chemistry organized by department of chemistry, Faculty of science, Banaras Hindu University, Varanasi, India (31 Jan, 2013)
- (4) Global Initiative for academic Networks organized by Indian Institute of Technology, BHU, Varanasi, India (19-23 Dec, 2016)
- (5) Webinar on 'CONTRIBUTION OF INDIAN WOMEN SCIENTISTS IN CHEMISTRY 'Organized by Vigyan Bharti Malwa Prant, School of Studies in

Chemistry & Biochemistry and Institute of Pharmacy, Vikram University, Ujjain, M. P., India (Oct 5, 2020)

- (6) Social, Cultural and Scientific Dimension of Nath Panth organization MYGSGSP, Gorakhpur at the occasion of 6<sup>th</sup> International Day of Yoga (June 21-22, 2020).
- (7) webinar "Leveraging Science and Technology to Combat COVID-19, May 23-24, 2020" organized by Faculty of Science, DDU Gorakhpur University, Gorakhpur via virtual-platform.
- (8) Workshop on Faculty Leadership Summit, 5-6 September, 2024 organized by Global strategy for society programs, American Chemical Society at DDU Gorakhpur University Gorakhpur.

#### Other administrative responsibilities

- (1) Member of **IQAC** of DDUGU, Gorakhpur since October 2019.
- (2) Assistant Dean of Students Welfare (ADSW) of DDUGU, Gorakhpur since September 2018.

#### Membership of proffessional bodies

(1) Life membership of The indian Science Congress Association, kolkata (Membership number L39594)

Place & date:

Name & Signature of the investigator



Gorakhpur, India Dec 2024 Dr. Vinita Assistant Professor, Department of Chemistry Deen Dayal Upadhyaya Gorakhpur University Gorakhpur, UP – 273009, India.