

CURRICULUM VITAE

NEERAJ RAIDHIRENDRA PRASAD

Department and Institute's Address:

School of Nanoscience & Technology

Shivaji University, Vidyanagar,

Kolhapur- 416 004

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PERSONAL DETAILS:

Category	: General
Father's Name	: Dr. Rai Dhirendra Prasad
Date of Birth	: July, 4th, 1978
Nationality	: Indian
Gender	: Male
Marital Status	: Single
Languages known	: English, Hindi, Marathi
Passport Number	: N1758622
PAN	: ARYPP7664A
UIDAI (Aadhar ID)	: 957381709004

EDUCATIONAL QUALIFICATION:

Certificate Degree	Subjects	Name of Institution Attended	Year	Class
Ph. D	Chemistry	Savitribai Phule Pune University, Pune, Maharashtra, India	2015	By thesis
M. Phil	Chemistry	Alagappa University, Karaikudi	2009	By thesis
M. Sc.	Chemistry	Shivaji University, Kolhapur India	2003	Second B+ Bclass

B. Sc.	Chemistry	Shivaji University, Kolhapur India	2000	First Class with Honors
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ADDITIONAL EDUCATIONAL QUALIFICATION:

Certificate Degree	Subjects	Name of Institution Attended	Year	Class
M. Tech.-I	Rural Technology	Shivaji University, Kolhapur	2023	First class
M. Sc.	Chemistry	Kuvempu University, Shimoga	2011	First class Bclass
Certificate course	MS-CIT	MKCL	2005	First class
Certificate course	Animal Welfare	Tamilnadu Veterinary and Animal Sc. University, Chennai	2004	-

TITLE OF Ph. D. THESIS:

“Synthesis of Noble metallic Nano-materials and their Applications in Organic Reactions”

TITLE OF M. Phil Dissertation:

“Studies on Physico-chemical Properties of Krishna River Water Particularly in Sangli and Kolhapur District of Western Maharashtra”

RESEARCH INTEREST:

1. Soil and water chemistry

2. Antimicrobial Activities
3. Nanomaterial Synthesis and applications
4. Medicinal Chemistry
5. Engineering Chemistry
6. Veterinary Medicine
7. Biochemical Approach

TEACHING EXPERIENCE: Total 19 years

- Assistant Professor of Chemistry at School of Nanoscience and Technology, Shivaji University, Kolhapur: July 2012- 2019 (Contract Basis).
 - Visiting Faculty in School of Nanoscience and Technology from 2019 till date
- Assistant Professor of Chemistry: From 1st June 2007 to 31st May 2012 at the Department of General Engineering, DKTE Society's Textile & Engineering Institute, Ichalkaranji.
- Lecturer of Chemistry at Jaysingpur College, Jaysingpur From 2004 to 2007 and 2022-23
- Visiting Faculty at Dept. of Technology, Shivaji University, Kolhapur from 2016 to 2022
- Lecturer (CHB) at DKASC College, Ichalkaranji from 2006 to 2007
- Visiting Faculty UNS Digital Technologies Private Ltd. 2025

RESEARCH EXPERIENCE:

- **Doctoral Work:** September 2010 to April 2015.
- **M. Phil Research work:** From 2007 to 2009.
- **M.Sc. project:** January 2003-April 2003
 - **Independent Researcher:** From 2019 to 2024

OTHER RELEVANT INFORMATION (HONORS/AWARDS):

1. **Officiated as BOS member of Nanoscience and Technology, Shivaji University, Kolhapur for the academic year 2012-13,2013-14.**
2. Worked as External Senior Supervisor in Shivaji University Examination in year 2009 and 2015,2016,2017
3. Worked as Quality Director for the university examination 2015-16,2016-17
4. Worked as question paper setter for Shivaji University and MSBTE examination
5. Worked for redressal committee.
6. Delivered lecture on Indian constitution for competitive examination cell of the college.

7. Authored two books for private circulation in department.
8. Delivered talk from All India Radio, Kolhapur in a series of 3 talks on Nanotechnology.
9. Delivered talk from All India Radio, Kolhapur in a series of 2 talks on Radioactivity.
10. Guided one student for M.Tech. in Food Science and Technology
11. Guided six students for one-year M.Sc Nanoscience and Technology project
12. Contributed scientific literature for Marathi Vishvakosh Nanotechnology – 02
13. Abjash Tantra Gyanacha Samajik Jivanavaril Prabhav Sritshi Gyan May 2022
14. Delivered talk on occasion of Science Day 2022 in Warana Mahavidyalay
15. Best poster presentation award (first prize) in International Conference in 2013
16. Felicitated by Dharangutti Gram Panchayat on occasion of Teacher's day 2023
17. Enlisted in world's scientists for five times by AD scientific Index
18. Worked as founder member in School of Nanoscience and Technology, Shivaji University, Kolhapur. Actively worked in development of department.
19. Delivered talk at YC College, Satara on Nanotechnology
20. Authored book: Krishna River Water Analysis, N R Prasad, P S Patil, B S Konapure, LAP Lambert Academic Publication 27 March 2017, ISBN 10: 3659808865.
21. Worked on Advisory Committee for Two Day's National Seminar on Future Perspective and Innovative Trends in Chemical Sciences held on 16th and 17th February 2024 at Devachand College, Nippani.
22. Elsevier Book Proposal Review 26 February 2024
23. Elsevier Book Proposal Review 1 April 2025
24. Swayam Course on Co-ordination Chemistry Qualified April 2024
25. Felicitated on occasion of Teacher's Day in 2024 by Dr S R Patil Social Foundation, Shirol, District Kolhapur.
26. Swayam course on Biomedical Nanotechnology Qualified October 2024

27. Broadcast from All India Radio, Sindhudurg' Nanotechnology chi Upyogita' 31st January 2025.

28. Indian Patent File Patented

29. Swayam Course on Essentials of Biomolecules: Nucleic Acids and Peptides. Qualified April 2025

OPROFICIENCY IN ANALYTICAL TECHNIQUES / COMPUTERS:

Computer literacy: Data analysis using Graph Pad, ACD chemsketch software, origin etc.

Basic chemical and nano-technological techniques:

1. Isolation of Micro-organism from samples such as soil, clinical cases, Food Industries etc.
2. Characterization of Nanoparticles using advanced characterization techniques.
3. Abbe's Refractometer use
4. Hot air oven use
5. Autoclave handling

Editorial Skills: Peer review, communication, Proposal writing, etc.

Technical Skills/Instrumentation handling:

1. Proficiency in using Ultrasonication, Micro centrifuge, Laminar air flow, Autoclave (moist heat sterilization), UV-Vis spectrophotometer, Fourier Transform Infrared Spectroscopy, Atomic Absorption Spectroscopy and Refractometer.
2. Waste water analysis by biological oxygen demand (BOD), chemical oxygen demand (COD) and other related Physico- Chemical Properties.

RESEARCH PUBLICATIONS (PUBLISHED- 57)

h index: 19, i-10 index: 27, Total Citations: 1230 (As on May 15, 2025)

Google Scholar Profile id:

<https://scholar.google.com/citations?user=F3H3FewAAAAJ&hl=en>

Scopus Author Profile id:

<https://www.scopus.com/authid/detail.uri?authorId=55901069500>

Orcid Profile id:

<https://orcid.org/my-orcid?orcid=0000-0002-8490-0721>

1. G.M.Nazeruddin, **N.R.Prasad**, S.R. Waghmare, K.M.Garadkar, I.S.Mulla (2014) Extracellular biosynthesis of silver nanoparticle using *Azadirachata indica* leaf extract and its antimicrobial activity, **Elsevier's JALCOM**, 583:272–277.4
2. G.M.Nazeruddin, **N.R.Prasad**, S.R.Prasad, K.D.Sonawane, Digamber Kumbhar (2014) In-Vitro Bio-Fabrication of Silver Nanoparticles Using *Trigonella foenum* Seed Extract, *RJPBS* 5(2):167-175. ISSN: 0975-8585
3. G.M.Nazeruddin, **N.R.Prasad**, S.R.Prasad, K.M.Garadkar, Arpan Kumar Nayak (2014) In-vitro bio-fabrication of silver nanoparticles using *Adhatoda vasica* leaf extract and its antimicrobial activity. **Elsevier's Physica e** 61:56–61.
4. G.M.Nazeruddin, **N.R.Prasad**, Y.I.Shaikh, A.A. Shaikh (2014) Synergetic effect of Ag-Cu bimetallic nanoparticles on antimicrobial activity. *Der Pharmacia letters* 6(3):129-136. ISSN: 0975-5071
5. G.M.Nazeruddin, **N.R.Prasad**, S.R.Prasad, Y.I.Shaikh, S.R.Waghmare, Parag Adhyapak (2014) *Coriandrum sativum* seed extract assisted in situ green synthesis of silver nanoparticles and its antimicrobial activity. **Elsevier's Industrial Crops and Products** 60:212-216
6. G.M.Nazeruddin, S.R.Prasad, B.M.Rathor, D.R.Kumbhar, R.V.Khandare, **N.R.Prasad** (2014) Extracellular one pot green synthesis of Palladium nanoparticles. *IJNN* 1:1–14.
7. G.M.Nazeruddin, S.R.Prasad, **Y.I.Shaikh**, N.R.Prasad (2015) A Brief Review: Science at Nanoscale. *IJNN* 16–32.
8. **N.R.Prasad**, J.M.Patil (2008) A study of physico chemical properties of Krishna river water particularly in western Maharashtra *Rasayan Journal of Chemistry*
9. Y.I.Shaikh, S.R.Prasad, B.B. Godbole, **N.R. Prasad**, G.M.Nazeruddin, Khurshid Ahmad (2018) Water Extract of *Piper Nigrum* Seed Assisted Synthesis of Silver Nanoparticles and Reduction of various Nitro compounds by NaBH_4 in presence of AgNPs as catalyst *Chem. Sc. Trans.* 7(2) 265-271.
10. G.M. Nazeruddin, S.R.Prasad, Y.I.Shaikh, Jameel Ansari, K.D.Sonavane, M.B.Deshmukh, P.S.Patil, B.M.Rathor, **N.R.Prasad** (2016) In –Vitro Bio-fabrication of Multi-applicative Silver Nanoparticles using *Nicotina tabacum* leaf extract *RJLBPBCS*.
11. G.M. Nazeruddin, Khurshid Ahmad, Y.I.Shaikh, S.R.Prasad, **N.R.Prasad**, Y.A.Attar, P.S.Patil (2017) *Bos Taurus* Urine assisted Synthesis of Cadmium Nanoparticles *Der Pharma. Chemica.* 9(11),39-43.

12. A.K.Sharma,C.A.Pawar,**N.R.Prasad**,M.A.Yevale,D.B.Kamble(2018) Anti-microbial efficacy of green synthesized iron oxide nanoparticles Material Research Express
13. S.R.Prasad, M.N. Padvi, S.S. Suryavanshi, Y.I Shaikh, L.S.Chodhary, A.P.Samant, **N.R.Prasad**(2020) Bio-inspired synthesis of catalytically and biologically active Palladium nanoparticles using Bos Taurus urine SN Applied Sciences 2(4) 1-12
14. S.S. Joshi, A.K. Sahoo, **N.R.Prasad**, I.S. Udchan (2019) Biosynthesis of Silver nanoparticles (AgNPs) By extract of Annona squasosa waste characterization and their anti-microbial activity International journal of Research and Analytical Review (IJRAR) 5(4) 907-914
15. Pranav Jadhav, Sujit Shinde, Suresh Suryavanshi, Shivand B Teli, P.S. Patil,A.A.Ramteke,N.G.Hiremath,**N.R.Prasad** (2020) Green AgNPs Decorated ZnO Nanocomposite for Dye Degradation And Anti-microbial Applications Engineered Science
16. **N.R.Prasad**, J.M.Patil, S.R.Prasad (2009) Evaluation of Physico-Chemical Properties of Krishna River Water Mantra Textile Magazine Vol. 03/08 April 2009 ISSN0973-4848
17. B. Narwade, **N.Prasad**, S.M.Lokhande, A,B.Madavi, A.K.Sahoo(2018) Extracellular Biosynthesis of Silver Nanoparticles Using Moringa Oleifera Leaves Extract And Its Anti-microbial Efficacy In Packaging Materials RJLBPCS DOI - 10.26479/2018.0402.15
18. Rai Dharendra Prasad, Naresh Charmode, Om Prakash Shrivastav, Saurabh R Prasad, Asha Moghe, Anant Samant, Prashant D Salvalkar, **Neeraj R Prasad** (2021) A Review on Concept of Nanotechnology in Veterinary Medicine ES Food and Agroforestry 2021,4,41-73 DOI <http://dx.doi.org/10.30919/esfaf481>
19. M N Padvi, A V Moholkar, S R Prasad, **N R Prasad** (2021) A Critical Review on Design and Development of Gas Sensing Materials ES Engineered Science 2021,15 ,20-37 DOI <http://dx.doi.org/10.30919/esfaf431>
20. S R Prasad, S B Teli, J Ghosh, **N R Prasad**, V S Shaikh, G M Nazeruddin, Abdullah G Al Schemi, Imran Patel, Y I Shaaikh (2021) A Critical Review on Bio- inspired synthesis of Silver Nanoparticles: Their Antimicrobial Efficacy and Toxicity ES Engineered Science 2021, DOI <http://dx.doi.org/10.30919/es8d479>
21. Prashant D Salvalkar, Rutuja R Mandavkar, Mansingraj S Nimbalkar, Kiran K Sharma, Pramod S Patil, Ganesh S Kamble, **Neeraj R Prasad** (2021) Bio- mimetic synthesis

of catalytically active nano-silver using Bos taurus (A-2) urine Scientific Reports Nature Portfolio11:16934 DOI [https:// 10.1038/s441598-021-96335-2](https://doi.org/10.1038/s441598-021-96335-2)

22. B S Konapure, Suneera Banga, Vasant Wagh, **N.R.Prasad**, Sardar N Patil, Saurabh R Prasad, N.G.Kajave, Jineshkumar L Chauhan, G.J.Navathe(2021), Studies on Physico-Chemical Properties of Krishna River Water Particularly in Sangli and Kolhapur of Western Maharashtra Textile TrendsNo5 August 2021 ISSN 0040-5205
23. Rai Dharendra Prasad, Omkar S Karvekar, Prajкта B Pawar, Naresh Charmode, Om Prakash Shrivastav, Saurabh R Prasad, Suneera Banga, Milind B Patil, Prashant D Sarvalkar, **Neeraj R Prasad** A Review On Nanotechnological Aspects In Veterinary Medicine, Research Journal of Life Sciences, Bioinformatics, Pharmaceuticals and Chemical Sciences DOI 10.26479/2021.0706.04 Nov-Dec 2021 RJLPBCS 7(6) page no 42-85
24. Avinash A Ramteke, Pradnya K Chaugule, **Neeraj Prasad**, Yogesh K Vyawahare, Shivaji R Kunal, Amit R Yaul, Study on Acoustic Properties of Lead Oxide Nanoparticle in Different Solvent Mixtures at 305 K by Using Nanofluid Interferometer Macromolecular Synposia 2021, 400, 2100171/ DOI 10.1002masy.202100171
25. Chandrakant A Pawar, Ashok K Sharma, **Neeraj R Prasad**, Suresh S Suryawanshi and Mahesh A Yewale, Murraya koenigii Assisted Synthesis of Bioactive Silver Nanomaterials Macromolecular Synposia 2021, 400, 2100126/ DOI 10.1002masy.202100126
26. Prashant D Salvalkar, Saurabh R Prasad, Omkar Karvekar, Mukesh N Padvi, Walmic B Shirsat, **Neeraj R Prasad**, Textile Trends 09, 24 December 2021
27. Erum Kazi, Yaseen Ismail Shaikh, **Neeraj Prasad**, Viqar Shaikh and Satish Kulkarni, A Case Study on Estimation of Air Quality in Hadapsar Suburban of Pune India Oriental Journal of Chemistry ISSN: 0970-020X CODEN: OJCHEG 2022, Vol,38, No (1)
28. A I Biradar, P D Sarvalkar, S B Teli, C A Pawar, P S Patil, **N R Prasad**, Photocatalytic degradation of dyes using one step synthesized silica nanoparticles, Materials Today Proceedings (**Elsevier**) 43, 2832-2838,2021
29. T D Dongale, G J Navathe, **N.R Prasad**, N.G.Deshpande, A V Moholkar, S A Shinde, P K Gaikwad, P S Patil, R K Kamat, Dynamic Drift Stimulation of Nanostructured Memristor Device: Investigation of Frequency Dependent Bipolar Resistive Switching Characteristic 20th Raman Memorial Conference -2014 Department of Physics, University of Pune

30. Prashant D Salvalkar, Shubham D Barawkar, Omkar S Karvekar, Pndurang D Patil, Saurabh R Prasad, Kiran Kumar Sharma, **Neeraj R Prasad** and Rajiv S Vhatkar A review on multifunctional nanotechnological aspects in modern textile The Journal of Textile Institute Taylor and Fransis DOI 10.1080/00405000.2022.2046304
31. Y I Shaikh, V S Shaikh, G M Nazeruddin, ZAmir Shaikh, G S Gugale, **N R Prasad** A Green Chemistry Approach Towards Synthesis of Bis- coumarins catalyzed by different biocatalysts such as Dragon fruit, Kiwi Fruit juice and Butter Milk Separated by Grinding Stone Technique: A comparative study. ES Food and Agroforestry
32. C A Pawar, A K Sharma, **N R Prasad**, S S Suryavanshi, G M Nazeruddin, V S Shaikh, A N Kulkarni, Abdullah G Al Sehemi, Y I Shaikh A comparative study on anti-microbial efficacies of biologically synthesized nano gold using Bos Taurus indicus urine with pharmaceutical drug sample. Current Research in Green and Sustainable Chemistry DOI <http://doi.org/10.1016/j.crgsc.2022.100311>
33. Omkar Karvekar, Prashant D Sarvalkar, Apurva S Vadanagekar, Richa D Singhan, Sarita M Jadhav, Mansingraj S Nimbalkar, **Neeraj R Prasad** Biogenic synthesis of silver anchored ZnO nanorods as nano catalyst for organic transformation reactions and dye degradation. DOI <https://doi.org/10.1007/s13204-022-02470-1> Applied Nanoscience 20 April 2022
34. Saurabh R Prasad, Anil P Athane, **Neeraj R Prasad**, Bhalchandra B Godbole Low Cost Semi-Automatic T-Shirt Folding Machine DOI <http://doi.org/10.17605/OSF.IO/5BY7K> Journal of Textile Association March-April 2022, Volume 82 No 6
35. Rai Dharendra Prasad, A K Sahoo, Om Prakash Shrivastav, Naresh Charmode, Saurabh R Prasad, Rakesh Kamat, N G Kajave, Jinesh Chauhan, Suneera Banga, Ujma Tamboli, M S Pandharpatte, R H Atigre, Viquar Shaikh, M N Padvi, Prashant Sarvalkar, **Neeraj R Prasad** ‘ A Review on Aspects of Nanotechnology in Food Science and Animal Nutrition’ ES Food and Agroforestry DOI [10.30919/esfaf704](https://doi.org/10.30919/esfaf704).
36. Rai Dharendra Prasad, Saurabh R Prasad, Om Prakash Shrivastav, A R Kanthe, S R Waghmare, V iquar Shaikh, Kailash M Doke, **Neeraj R Prasad**, Gulam M Nzzeruddin, Yasin I Shaikh ‘ Biogenic Synthesis of Nano-Silver and Their Anti-Microbial Efficacy’ ES Food and Agroforestry DOI: <https://dx.doi.org/10.30919/esfaf836>
37. Pravin Kumar D Patil, Vaishali S Mohite, Khalid S Virani, Prashant Sarvalkar, **Neeraj R Prasad** ‘ Adsorption of Heavy Metal ion From Water Iron Oxide Nanoadsorbent : A Review on Recent Literatures ‘ Shivaji University Kolhapur Avishkar

38. Gouri S Kumbhar, Shubham V Patil, Prashant D Sarvalkar, Apurva V Vadangekar, Omkar S Karvekar, Sharadchandra S Patil, Manali R Rane, Kiran Kumar K Sharma, Deepti Kurhe, **Neeraj R Prasad** ‘ Synthesis of Ag/Rgo Nanocomposite using Bos Taurus indicus urine for nitroarene reduction and biological activity. RAC Advances DOI <http://dx.doi.org/10.1039/D2RA06280A>
39. Omkar S Karvekar, Apurva S V adangekar, Prashant D Sarvalkar, Sarita Jadhav, Richa Singham, Suresh Suryavanshi, Jyoti P Jadhav, Kiran Kumar K Sharma , **Neeraj R Prasad**‘ Bos Taurus urine Assisted Bio-active Cobalt Oxide Anchored ZnO A Novel Nanoscale Approach Scientific Reports <http://dx.doi.org/10.21203/rs.3.rs-1849967/v1>
40. Vasant Wagh, **Neeraj R Prasad**, ‘ Science, Nanotechnology and Humankind, Jharkhand Journal of Development and Management Studies Volume 21, issue 1; March 2023.
41. Prashant S Powar, Arti P Tibe, Suhas S Kamble, Anuj S Jagtap, Priyanka Thounaojam, Prashant D Sarvalkar, **Neeraj R Prasad**, Impact of Selective Nano-catalysts in Nitroarene Reduction Reactions, Nano Trends: A Journal Nanotechnology and its Applications Vol 25 Issue 2, 2023 DOI 10.37591/NTs
42. Saurabh R Prasad, Vinod Kumbhar, **Neeraj R Prasad** ‘Application of Nanotechnology in Textiles’ ES Food and Agroforestry 2024,15,1019 DOI: <https://dx.doi.org/10.30919/esfaf1019>
43. Rai Dharendra Prasad, **Neeraj R Prasad** et. al. ‘A Critical Review on Bio-mimetic Synthesis of Transition Metal Nanoparticles: their Bio-medical Applications in Veterinary Medicine’ ES Food and Agroforestry 2024,15,1027DOI: <https://dx.doi.org/10.30919/esfaf1027>
44. Prashant Sarvalkar, Neeraj R Prasad et. al. ‘ Biogenic Synthesis of Co₃ O₄ nanoparticles from Aloe barbadensis extract: Anti-oxidant and antimicrobial activities, and photocatalytic degradation of azo dyes , Results in Engineering Volume 22, June 2024, 102094 <https://doi.org/10.1016/j.rineng.2024.102094>
45. Prashant Sarvalkar, Neeraj R Prasad et. al. ‘Biologically and Catalytically Active Cubic Silver Chloride anchored Palladium/ Gold Bimetallic Nanomaterials
46. Rai Dharendra Prasad, Neeraj R Prasad, Nirmala Prasad et. al. A Critical Review on Electron, X-Ray, Probe Microscopic Techniques for Analysis of Biomaterials and Nanomaterials, Journal of Recent Advances in Nanomedicine and Nanotechnology 1(1):JRANN.MS.ID.555554(2024)

47. Rai Dharendra Prasad, Neeraj R Prasad, Nirmala Prasad et. al. A review on nanotechnological aspects in medicinal textile, Asia Pacific Academy of Science Pte. Ltd, Advances in Analytical Science 2024, 5(1),2694, <https://doi.org/10.54517/aas.v5i1.2694>
48. Sampada Warake, Neeraj R Prasad et. al, Emerging trend of nanomaterial synthesis using Bos Taurus urine, Engineering and Applied Science Letters, (2024) 7, (2), 14-28, doi.10.30538/psrp-easl2024.0099
49. G B Pethe, A R Yaul, A A Ramteke, N Prasad, ‘ Design, Analysis and Antimicrobial Exploitation of Transition Metal Complex with Tridentate Schiff Base, Rasayan Journal of Chemistry,(2024) Volume 17,Number 4, 1864-1870 doi: <http://doi.org?10.31788?RJC.2023.1749023>
50. Avinash Ramteke, Babloo Chavan, Neeraj Prasad, ‘ Environmental impact of chlorantraniliprole in bell peppers:residue dynamics and sustainable practice’, Omni Science: A Multi-disciplinary Journal (2024), Volume 14, Issue 03
51. Rai Dharendra Prasad, N R Prasad, et.al., ‘A Critical Review on Electron , X Ray, Probe Microscopic Techniques for Analysis of Biomaterials and Nanomaterials’, International Journal of Nanomaterials and Nanostructures, (2024), Volume 10, Issue 02
52. Prashant D Sarvalkar, Anuj S Jagtap, Sonali V Kalake, Suryabala A Sawant, Rohit B Sutar, Dhanshree V Deshmukh, Suhas S Kamble, Arti P Tibe, Jyotiprakash B Yadav, Neeraj R Prasad, Sudhir N Kulkarni, Arif D Sheikh, Zhanhu Guo, Pandurang D Patil, Kiran Kumar K Sharma, ‘ Synthesis of Graphene Oxide Anchored Copper Oxide Nanocomposites for Biological Activity and Environmental Remediation’, (2024) 28,1313, <http://dx.doi.org/10.30919/eseel1313>
53. Rai Dharendra Prasad, Neeraj R Prasad et. al. ‘ A review on phenomenon of adsorption of inorganic materials: Applications in veterinary pharmacology and material sciences, 920240 Asia Pacific Advances in Analytic Science 5920 3000 <http://doi.org/10.54517/anas.v5i2.3000>
54. Prasad, Rai Dharendra, Neeraj R. Prasad, Nirmala Prasad, Saurabh R. Prasad, Rai Surendra Prasad, Rai Bishvendra Prasad, Rai Rajnarayan Prasad et al. "A Review on Scattering Techniques for Analysis of Nanomaterials and Biomaterials." Engineered Science 33 (2024): 1332. Doi. <https://dx.doi.org/10.30919/esmm1198>
55. Sarvalkar, Prashant D., Anuj S. Jagtap, Neeraj R. Prasad, Amit R. Yaul, Kiran Kumar K. Sharma, and Avinash A. Ramteke. "Bio-inspired preparation of Ag NPs, rGO, and Ag/rGO nanocomposites for acoustical, antioxidant, and plant growth regulatory

- studies." *Scientific Reports* 15, no. 1 (2025): 3281. Doi. <https://doi.org/10.1038/s41598-025-87705-1>
56. Hiremath, Narendra Gurumoorti, Balasaheb Kokare, Somnath Devidas Bhinge, Sandeep Balwant Patil, Raghunath Mane, Anandrao Kulakarni, Kalyanrao Garadkar, Neeraj Prasad, and Sourabh Prasad. "Facile Synthesis and Surface Characterization of ZnO-Fe₃O₄ Metal Nanoparticles Composite Using Cow Urine from the Bos Taurus Breed and Its Applications." *BioNanoScience* 15, no. 1 (2025): 122. Doi. <https://doi.org/10.1007/s12668-024-01629-0>
57. Dhawale, Sachin K., Prashant D. Sarvalkar, Chetan S. Shinde, Neeraj R. Prasad, Kalyanrao M. Garadkar, Kiran Kumar K. Sharma, and Avinash A. Ramteke. "Studies on Photocatalytic and Antioxidant Efficacy of Ag-Embedded ZnO Nanocomposites." *ACS Omega* (2025). doi. <https://pubs.acs.org/action/showCitFormats?doi=10.1021/acsomega.4c08896&ref=pdf>
58. Prasad, Rai Dharendra, Neeraj R. Prasad, Nirmala Prasad, Rai Surendra Prasad, Saurabh R. Prasad, Om Prakash Shrivastav, Rai Bishvendra Prasad et al. "A Review on Aspects of Nanotechnology in Environmental Science and Engineering." *ES General* 7 (2025): 1397. doi <https://dx.doi.org/10.30919/esg1397>
59. Prasad, Neeraj R., Sudhir Desai, and Mrunalini Jagtap. "A critical review on glimpses of nanoscience and technology." *Eng. Appl. Sci. Lett.* 2025, 8(1), 1-37; doi:10.30538/psrp-easl2025.0105
60. Rai Dharendra Prasad, Neeraj R Prasad, Sudhir Desai, Mrunalini Jagtap, Saurabh R Prasad, Pankaj K Pawar, V B More, Naiem Nadaf, S M Landage, Y I Shaikh, Anil Athane, A A Ramteke, Sachin Dhavale, ' Synthesis and Characterization of TiO₂-ZnO nanocomposite: Their antimicrobial activity and applications in textiles', *Mari Papel Y C orrugado*, Vol.1, 2025, doi: 10.71442/mari2025-0012
61. Mukund K Sakate, Sandep B Wategaonkar, Dnyandevo N Zambare, Umesh V Shembade, Annasaheb V Moholkar, Neeraj R Prasad, Apurva P Patil, Abhinand R Patil, Balasaheb M Sargar, Balasaheb N Kokare, ' Dual extracellular activities of cobalt and zinc oxide nanoparticles mediated by Carica papaya Latex: Assement of antibacterial, antifungal, and anticancer activities', *Inorganic Chemistry Communications*, volume 178, part 2, August 2025, doi: 10.1016/j.inoche.2025.114538

OTHER RESEARCH RELATED ACTIVITIES:

1. Reviewer of the “Journal of Hydrogen Energy” by Elsevier.
2. Reviewer of “International Journal of Nanoscience and Nanotechnology”.
3. ES Energy and Environment
4. ES Food and Agroforestry
5. Advanced Composites and Hybrid Materials Springer Nature
6. Indian Journal of Medical Sciences

ACADEMIC CONFERENCES: (37+)

1. National Seminar on “Green Chemistry-2006” 7th October 2006 organized by Dr Patangrao Kadam Mahavidyalaya, Sangli.
2. State level seminar on “Solvent Extraction” from 3rd to 4th May 2005 organized by S.P.Mandls D.M.K.G. Science and Arts College, Mangalwedha, Solapur.
3. A course on teaching methodologies in Basic Mechanical Engineering from 10th to 11th January 2008 organized by DKTE Society’s Textile And Engineering Institute, Ichalkaranji.
4. A National Seminar on ‘Advances in instrumentation, signal processing and communication 2009’ from 23rd to 24th January 2009 organized by Karmveer Baburao Ganpatrao Thakare College of Engineering, Nashik.
5. National Conference on Life Sciences with Special Reference to Environmental Biotechnology and Biodiversity from 2nd to 3rd February 2010 organized by Vivekanand College, Kolhapur.
6. National Seminar on Nanomaterials for Device Characterization and Application from 24th to 26th June 2010 organized by University of Pune and DIAT Pune.
7. National Conference on Advances on Engineering and Management from 13rd to 15th January 2011 organized by Indira College of Engineering and Management, Pune.
8. International Conference on Supramolecular Chemistry and Nanomaterials from 14th to 16th February 2011 organized by Bombay University, Mumbai
9. Advances in Synthetic Methodologies and New Materials from 21st to 22nd January 2011 organized by Department of Chemistry, Shivaji University, Kolhapur.

10. Faculty Development Programme on Entrepreneurship Development from 16th to 28th May 2011 organized by DKTE Ichalkaranji.
11. National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials from 21st to 22nd January 2012 organized by Shivaji University, Kolhapur.
12. Advances in Teaching Strategies and Evaluation from 12th to 13th October 2012 organized by Department of Education Shivaji University, Kolhapur.
13. National Conference on emerging Technologies for Sustainable Development from 27th to 28th December 2012 organized by DOT, Shivaji University, Kolhapur.
14. 5th National Symposium for Material Characterization
15. Raman Memorial Conference 2014, Department of Physics, SPPU, Pune
16. Raman Memorial Conference 2015, Department of Physics, SPPU, Pune
17. Emerging Technologies for Sustainable Development, Department of Technology, Shivaji University, Kolhapur 2012
18. International Conference on Supramolecular Chemistry and Nanomaterials, University of Mumbai 2011
19. National Conference on Advances in Engineering and Management. Indira college, Pune 2011
20. Advances in the Drug Design and Discovery. National Conference, Poona College, Pune 2014
21. Current Trends in Chemical and Nano Sciences, Department of Chemistry, Shivaji University, Kolhapur 2014
22. 5th National Symposium for Material Research Scholars MR 13, IIT, Bombay 2013
23. One Day Avishkar- Orientation Programme Avishkar-2013
24. Physics of Materials and Materials Based Device Fabrication 2nd International Conference, Shivaji University, Kolhapur 2014
25. One Day Seminar on 'All Round Personality Development of Students' Jaysingpur College, Jaysingpur 19 Jan 2006
26. International National Conference on Nanomaterials and Biomaterials organized by Shrivaji College, Barshi 2013.
27. A National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials, Department of Chemistry, Shivaji University, Kolhapur 2012
28. Current Trends Chemical and Nano Sciences, Department of Chemistry, Shivaji University, Kolhapur January 2014
29. 2nd International Conference on Physics of Materials and Materials Based Device Fabrication(ICPM_MDF-2014) Shivaji University, Kolhapur 13-15 January 2014
30. Materials for Future Technology Rajaram College, Kolhapur 26 and 27 September 2014.
31. INUP Hands on Training Workshop on Nanofabrication Technology IISc Bangalore 12th to 22 September 2017
32. Department of Education and Examination Section, Shivaji University, Kolhapur Examination Reforms in Higher Education 16-17 February 2017

33. Mentrion India Ltd Electrochemical Solution for Energy Research and Education, Shivaji University 4th September 2018.
34. Materials for Advanced Applications, IIT, Kharagpur 2nd September to 13th September 2013.
35. Recent Advances in Nanobiophotonics from Lab to Clinic IIT Roorkee 13th -17th July 2015.
36. AICTE sponsored Faculty Development Program Flood Modeling at KIT Kolhapur from 26 December 2023 to 31 December 2023
37. AICTE sponsored Faculty Development Program ATAL FDP on Emerging Trends in Electrical Vehicles at Walchand College, Sangli from 8th January to 13th January 2024.
38. AICTE sponsored Faculty Development Program Digital Twin Based Condition 'Monitoring and Fault Diagnosis For Industry 5.0' at KIT Kolhapur from 18 November 2024 to 24 November 2024
39. AICTE sponsored faculty Development Program at TKIT, Waranagar