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## Curriculum Vitae

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Dr. Aparna Milind Kulkarni  
Vice Principal, Science faculty  
Head of Chemistry  
Department  
Associate Professor,  
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[vpscience@gjcrtn.ac.in](mailto:vpscience@gjcrtn.ac.in)

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## Academic Qualification

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Ph.D (Organic Chemistry) <b>Shivaji University, Kolhapur</b>	2017	-----
SET	2004	-----
Master of Science (Organic Chemistry) <b>University of Mumbai, Mumbai</b>	1998	First Class
Bachelor of Science (Chemistry) <b>University of Mumbai, Mumbai</b>	1996	Distinction

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## *Positions Held and Brief Overview*

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- ✓ Member of Board of studies in chemistry, Mumbai University
- ✓ Associate Professor at Gogate Jogalekar College, Ratnagiri.
- ✓ Vice Principal  
Gogate Jogalekar College,  
Ratnagiri (from June 2021)
- ✓ Delivering lectures and conducting practical for graduate and post-graduate students.
- ✓ Guiding research students for Masters and Ph. D.
- ✓ Involved in organization of workshops for students
- ✓ Handling College administrative work in the capacity of vice-principal.
- ✓ Ensuring students development and motivation.
- ✓ Member of various administrative units in the College including the Academics.
- ✓ Recognized Ph. D. guide
- ✓ Co-ordinator of Biochemistry, Microbiology, Biotechnology
- ✓ PG Co-ordinator (from 2020 till date)
- ✓ Convener of Women Development Cell of College (2017-2021)
- ✓ PM-USHA Coordinator

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## *Achievements / Awards:*

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- Received 'Vishesh Margdarshak Puraskar' from Marathi Vidnyan Parishad for guiding award winning projects three times  
Year 2009: Extraction of ethanol from fruits of cashew and its use as fuel  
Year 2014: Magnetically separable egg shell based nanocatalyst  
Year 2017: Bioplastic using sago starch and fly ash – an alternative to polythene bags

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## *Professional Development*

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- Participated in three refresher courses conducted by University of Mumbai
- Attended several workshops and orientation programmes and short term programmes for administrative skill development.
- Attended several Teacher-training programme conducted by G.J College and professional organization.
- Work as visiting faculty at Dapoli College, Ratnagiri, Maharashtra.
- Completed the self-learning online course on Understanding Open Educational resources offered by the Commonwealth of Learning, Canada
- Created E-content, You tube videos devoted to chemistry education <https://www.youtube.com/@easychemistryforyou>

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## Detail of Research Grants

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- 1. Name of the agency: **University Minor Research Project**  
Title: Synthesis and characterization of biodiesel from seeds of local plants  
Amount approved and utilized: Rs. **32,000/-**  
Year Started: 2008      Status: **completed****
  
- 2. Name of the agency: **University Minor Research Project**  
Title: Preparation of Novel catalysts for Greener Organic Transformations  
Amount approved and utilized: Rs. **25,000/-**  
Year Started: 2016      Status: **Completed****
  
- 3. Name of the agency: **University Minor Research Project**  
Title: Characterization and Biodegradation Study of Bioplastic synthesized using various Natural Sources  
Amount approved and utilized: Rs. **50,000/-**  
Year Started: 2019      Status: Completed**

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## *Papers Published*

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- 1]** Polyaniline coated cobalt ferrite and cadmium ferrite microparticles for possible bioengineering applications'  
S. C. Watawe, P. M. Tamhankar, M. S. Sharma, H. R. Marathe, A. R. Joshi, **A. M. Kulkarni**,  
MJDYPU- vol II, Issue III, ISSN-0974-2743, (2008)  
128-133
- 2]** Functionalization of cobalt ferrite nanoparticles with alginate coating for biocompatible applications  
P. M. Tamhankar, **A. M. Kulkarni**, S. C. Watawe,  
Mate. Sci. Appli., 2011, 2(09), 1317 – 1321
- 3]** A simple, economical, and environmentally benign protocol for the synthesis of 2-amino-3,5-dicarbonitrile-6-sulfanylpyridines at ambient temperature.  
Uday. V Desai, Makarand. A Kulkarni, Kapil. S. Pandit, **Aparna. M. Kulkarni**, Prakash. P.Wadgaonkar,  
**Green Chem. Lett. Revi.**,2014, 7, 228 – 235.
- 4]** Nickel ferrite nanoparticles – hydrogen peroxide: a green catalyst – oxidant combination in chemoselective oxidation of thiols to disulfides and sulphides to sulfoxides.  
**Aparna M. Kulkarni**, Uday V. Desai, Kapil S. Pandit, Makarand A. Kulkarni, Prakash P. Wadgaonkar,  
**RSC Adv.**,2014, 4, 36702 – 36707.
- 5]** Cobalt ferrite nanoparticles: a magnetically separable and reusable catalyst for Petasis-Borono– Mannich reaction  
**Aparna M. Kulkarni**,Kapil S. Pandit, Pramod V. Chavan, Uday V. Desai, Prakash P. Wadgaonkar, **RSC Adv.**, 2015, 5, 70586 – 70594.  
The work is reprinted in Synfact as current highlights in organic synthesis mentioned below.
- 6]** Cobalt ferrite nanoparticle catalyzed Petasis- Borono– Mannich reaction. Aparna M. Kulkarni, Kapil S. Pandit, Pramod V. Chavan, Uday V. Desai, Prakash P. Wadgaonkar, Synfacts, 2015, 11 (12) 1328

- 7]** Structural and dc electrical properties of Cu-Zn ferrialuminates synthesized by citrate auto-combustion method U B Sankpal, **A M Kulkarni**, S. S. Waghadare, K V Sukhatankar, P P Kulkarni, D J Sathe  
IOP Conf. Series: Materials Science and Engineering 1166 (2021) 012011
- 8]** Immobilization of diastase on PVA- CoFe<sub>2</sub>O<sub>4</sub> Nanocomposite film for improving stability and recycling r **A M Kulkarni**, U B Sankpal, V A Ghadyale, N NBhatkar, S S Waghdhare, S V Pathare IOP Conf. Series: Materials Science and Engineering1166 (2021) 012012
- 9]** Multicomponent Synthesis of Pyrano (3, 2-c) Quinolone Fused Spirochromenes  
Ravindra V. Kupwade, **Aparna M. Kulkarni**, and Uday P. Lad  
Polycyclic Aromatic Compounds,  
DOI: 10.1080/10406638.2021.2015398
- 10]** Microwave assisted Williamson Ether Synthesis in the absence of Phase Transfer Catalyst  
Kulkarni P.P. and **Kulkarni A.M.** Res. J. Chem. Environ, Vol. 26 (1) January (2022) 49-52
- 11]** Effective remediation of crystal violet dye using Cobalt ferrite/eggshell nanocomposite-H<sub>2</sub>O<sub>2</sub>  
S. S. Waghdhare, A.M. Kulkarni, S. S. Deosthali, N. N. Bhatkar; Indian Journal of Natural Science; Vol.14 (82); February (2024) ISSN 0976-0997
- 12]** Chapter 'Cobalt ferrite Nanoparticles: Magnetically separable and reusable catalyst for Hydrothiolation' **A.M. Kulkarni**; in an international book 'The comparative study of Biologically active students' by Scholars' press.
- Article Published ▪`
- Bioplastic – An alternative to plastic'Vanarai Magazine, vol. 8, Aug. 2018, ISSN 2250 -1215 **The article has been selected in Maharashtra StateGovernment Magazine.**
  - 'Mendelive's periodic table' Marathi Vidnyan Parishad Patrika, vol. 562, Dec. 2019, ISSN 097-6912
  - 'Chemical Explosives' Marathi Vidnyan Parishad Patrika, vol. 573, Dec. 2020, ISSN 097-6912

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## Papers Presented

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1. Presented the paper in the 'International Conference on Emerging Trends in Chemical Sciences' held at Mumbai university during Jan. 23 – 25, 2007
2. Presented the paper in the 'International Conference on Biomedical Engineering and Nanotechnology' held at D. Y. Patil College, Kolhapur during Oct. 21 – 23, 2008
3. Presented the paper in the 'International Conference on Nanomaterials and Applications' held at Shivaji university during Dec. 9 – 11, 2008
4. Presented the paper in the 'International Conference on Advances in synthetic Methodologies and New Marerials held at Shivaji university, Kolhapur during Jan. 21 – 22, 2011
5. Presented paper in the 'International Conference on Supramolecular Chemistry and Nanomaterials' held at Mumbai university during Feb. 14 - 16, 2011
6. Presented the paper in the 'National Conference on Current Research in Chemical Sciences' held at Shivaji university Kolhapur during Jan. 22 – 23, 2013
7. Presented paper in the 'International Conference on Nanomaterials for sustainable Green Technology' held at Pendharkar College, Mumbai during Jan. 5- 6, 2015
8. Presented paper in the 'National Conference on Frontiers in Chemical and Material Sciences' held at Shivaji university, Kolhapur during Jan 16-17, 2015
9. Presented paper in the 'National Conference on Recent Developments in Chemical Sciences' held at Mumbai university during Mar. 8 - 9, 2018
10. Presented paper in the 'International Conference on Gender equality through the Strategy of Gender Mainstreaming' held at Presidency University during Sept. 6 - 7, 2018
11. Presented paper in the 'International Conference on Chemistry, Environment and Energy' held at Yashavantrao Chavan Institute of Science during Feb. 16 - 18, 2019
12. Presented paper in the International Web Conference on 'New Pathways in Chemistry' held at Acharya Marathe College, Mumbai during May 23-24, 2020
13. Presented paper in the International Conference on Material Science and Technology 2021' held at Coimbatore, Tamilnadu during April 15 - 16, 2021
14. Presented paper in an International Conference on Advance Research in Applied Sciences (ICARAS-2021) organized by Bhagwan Parshu Ram College, Kurukshetra, Haryana, on 25th September 2021.

15. Presented paper in an International Conference on Technologies for smart green connected society sponsored by Electrochemical Society and ACS publications on November 29 and 30, 2021

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### Affiliations

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Life Member of Chemistry Teachers Association  
Life member of Ratnagiri Education Society  
Life Member of Marathi Vidnyan Parishad