

Dr. Anil G. Markandeya, Ph. D.

Present position

- Professor

Contact Details



9604139973



anilmarkandeya@fergusson.edu



Work Experience

- Teaching: 27 years
- Research/Industrial: 4 years

Personal Profile

Administrative Experience

1. Chairman, Fergusson College Sevak Sahakari Patpedhi Maryadit, Pune from April-2015.
2. Member of College Development Committee, Fergusson College, since November 2017.
3. Member of Local Management Committee, Fergusson College, since November 2015-17.
4. Working as a In-charge for Centralized Instrumentation Laboratory funded by DST-FIST, Delhi at Fergusson College, Pune-4 Since January 2008.
5. Worked as a member of Central Purchase Committee of Deccan Education Society for financial 2010-11 and 2011-12.
6. Worked as a In-charge as well as Coordinator of FYBSc for academic year 2007-08 to 2009-10 at Fergusson College, Pune-4.
7. Worked as a Head, Department of Chemistry at G. E. Society's of Arts , Commerce & Science College, Shriwardhan, Raigad.
8. Worked as coordinator for Permanent Affiliation of G. E. Society's of Arts , Commerce & Science College, Shriwardhan, Raigad.
9. Worked as a Chief and Coordinator for CHEMIAD, organized by Department of Pune University from 2007 to 2012.

Course(s) Taught (Only Titles)

1. Physical Chemistry
2. Analytical Chemistry

Field of Specialization/Areas of Interests

- Physical Chemistry
- Phytochemistry

Education

- **Ph.D. – (Chemistry):** from 2011 to 2015
Title of the Thesis: “Phytochemical Analysis and Study of Bioactivities of *Celocia argentea*”
Pune University, Pune
Year of Award: 2015
- **Master of Science/Arts- (Organic Chemistry):** 1993
Pune University, Pune
- **Bachelor of Science- (Chemistry):** 1991
SSVPS College, Dhule, University of Pune, Pune

Member of College Committees/ Professional Bodies and Others

College Level	Professional Bodies	Others
<ul style="list-style-type: none">• Member, College Development Committee (CDC)	-	Member, Board of Studies (BoS), Abeda Inamdar College, Pune
<ul style="list-style-type: none">• Chairman, Fergusson College Credit Cooperative Society, 2015-2022		
<ul style="list-style-type: none">• Member, Board of Studies (BoS)		
<ul style="list-style-type: none">•		
<ul style="list-style-type: none">•		

Employment History

- 1) **Organization :** Arts, Commerce and Science College, Shrivardhan, Raigad
Role : Assistant Professor
Duration : 2005-2006

Responsibilities	<ul style="list-style-type: none"> • Teaching • Coordinator, Permanent Affiliation • Head, Department of Chemistry
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2) Organization : N B Meheta (Valwada) Science College, Bordi, Palghar

Role : Assistant Professor

Duration : 2000-2005

Responsibilities	<ul style="list-style-type: none"> • Coordinator, ISO Certification • Departmental Coordinator, NAAC
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3) Organization : Ahmednagar College, Ahmednagar

Role : Lecturer

Duration : 1996-2000

Responsibilities	<ul style="list-style-type: none"> • Coordinator, MSc Drug Chemistry •
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4) Organization : PVP College, Loni, Pravaranagar, Ahmednagar

Role : Lecturer

Duration : 1993-1996

Responsibilities	<ul style="list-style-type: none"> • Member, Board of Studies
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Research Projects

Title of the Project	Name of Funding Agency	Amount (Rs)	Duration (Year) (From To)	Type (Minor/Major)	Outcome
Metabolite Profiling of <i>Vernonia anthelmintica</i> by LC-MS	DBT-STAR	25,000	2019-20	Minor	-
Phytochemical analysis of <i>Celocia argentea</i>	UGC-New Delhi	1,05,000	2011-12	Minor	5 Publications
Assessment of Physicochemical contaminants in ground water around Mutha River, Pune	BCUD, Savitribai Phule Pune University, Pune	2,00,000	2008-10	Minor	

Research Publications in National and International Journals

1. Narayan P. Firke, **Anil G. Markandeya**, Rajendra S. Konde Deshmukh and Shirish S. Pingale. Observations on fragmentation pathway of Farinomalein and its isomers by structural investigation using LC-MS/MS. *Mass Spectrometry Letters*. **2018**, 9(1), 37-40. (<http://www.msletters.org>)
2. Narayan P. Firke, **Anil G. Markandeya**, Rajendra S. Konde Deshmukh and Shirish S. Pingale. Synthesis and antibacterial activity of Farinomalein and its analogues. *Asian Journal of Organic & Medicinal Chemistry*, **2018**, 3(1), 10-13. (<https://ajomc.asianpubs.org/>)
3. Narayan P. Firke, **Anil G. Markandeya**, Rajendra S. Konde Deshmukh and Shirish S. Pingale. Plausible reaction path for Haval-Argade contrathermodynamic rearrangement in synthesis of Farinomalein. *Asian Journal Chemistry*, **2018**, 30(4), 901-903. (<https://ajomc.asianpubs.org/>)
4. Narayan P. Firke, Suneeti S.Gore, Sunita Salunke-Gawali and **Anil G. Markandeya**. Ceramides from *Celocia argentea* leaves by LC-MS. *Int. Res. Journal of Science and Engg.*, **2018**, A-3, 155-160.
<https://www.irjse.in/>
<http://oaji.net/articles/2017/731-1516371678.pdf>
5. Narayan P. Firke, **Anil G. Markandeya**, Rajendra S. Konde Deshmukh and Shirish S. Pingale, Tripeptides observed in hydro-distillation analysis of *Ocimum Tenuiflorum. L.* by LC-MS/MS. *International Journal of Physical and Chemical Science*. **2018**, 7(2), 46-51. (<http://www.ijcps.org/>)
http://ijcps.org/admin/php/uploads/796_pdf.pdf
6. **Anil G. Markandeya** Narayan P. Firke, Nitin V Ganjavae, Rajendra G Mahale and Sunita Salunke-Gawali and Shirish S. Pingale. Steroids from *Celocia argentea* leaves by LC-MS, *International Journal of Physical and Chemical Science*.**2018**,(7),1-6. (<http://www.ijcps.org/>)
http://ijcps.org/admin/php/uploads/638_pdf.pdf
7. **Anil G. Markandeya**, Narayan P. Firke, Suneeti S. Gore, Sunita Salunke-Gawali and Shirish S. Pingale. Antibacterial activity of *Celocia argentea* leaves extract in organic solvents. *Research Journal of Pharmacology and Pharmacodynamics*, **2014**, 6(2), 79-81. (<http://rjppd.org/>)
8. **Anil G. Markandeya**, Narayan P. Firke, Shirish Pingale and Sunita Salunke-Gawali. Quantitative elemental analysis of *Celocia argentea* leaves by ICP-OES technique using various digestion methods. *International Journal of Chemical and Analytical Science*. **2013**, 4, 175-181. (<https://www.sciencedirect.com/journal/international-journal-of-chemical-and-analytical-science>)

9. Shirish S. Pingale, Narayan P. Firke and **Anil G. Markandeya**. Therapeutic activities of *Ocimum tenuiflorum* accounted in last decade: A review. *Journal of Pharmacy Research*. **2012**, 5 (4), 2215-2220.
(<https://www.sciencedirect.com/journal/journal-of-pharmacy-research>)
10. Shirish S Pingale, Sunita A Salunke-Gawali, Narayan P. Firke and **Anil G. Markandeya**. Recent development in research of *Celocia argentea*: A review, *Journal of Pharmacy Research*, **2012**, 5(2), 1076-1082.
(<https://www.sciencedirect.com/journal/journal-of-pharmacy-research>)
11. **Anil G. Markandeya** and Narayan P. Firke. TLC analyzer: An inexpensive tool for analysis of astronomical images. *Elixir Appl. Chem.* **2011**, 39, 5087-5089.
(<https://www.elixirpublishers.com/>)
[https://www.elixirpublishers.com/articles/1350640551_39%20\(2011\)%205087-5089.pdf](https://www.elixirpublishers.com/articles/1350640551_39%20(2011)%205087-5089.pdf)
12. Shirish S Pingale, **Anil G. Markandeya** and Sunita A Salunke-Gawali. Toxicity study of *Celosia argentea* leaves. *International Journal of Pharmacy Research*. **2011**, 2 (1), 263-266.
(<https://irjponline.com/>)
(<https://irjponline.com/admin/php/uploads/volume2/44.pdf>)
13. Anil G Makade, Nilesh S. Chavan and J S Ambhore. Evaluation of Physico-chemical characteristics of drinking water samples from Shriwardhan town, Raigad. *Bioinfolet*, 2006, 3 (3), 222-223.
<http://www.indianjournals.com/ijor.aspx?target=ijor:bil&type=archive>
1. Anil G Makade, Nilesh S. Chavan and J S Ambhore. 'Evaluation of Physico-chemical characteristics of water samples from Shriwardhan town, Dist. Raigad. *Pollution Research*, **2007**, 2.

Participation in Conferences/Seminars/Symposia/Workshop:

1. **Anil G. Markandeya**, Sayali Tekavade, Shruti Yadav and Rohit Gore. Presented a paper on 'Metabolite profiling of *Vernonia anthelminetica* using LC-MS' in **National** Conference on Recent Trends in Chemistry (NCRTC-2020) on 13-14 February 2020 at Institute of Science, Mumbai.
2. **Anil G. Markandeya**, Narayan P. Firke, Sunita Salunke-Gawali and Shirish Pingale. Drugs of biological origin from *Celocia argentea* leaves. **International** Conference on 'Functional eco-friendly smart emerging materials' FESEM-2016 at YASHDA organized by Baburao Gholap College, Sanghvi, Pune on 10-12 March 2016.
3. **Anil G. Markandeya**, Narayan P. Firke, Sunita Salunke-Gawali and Shirish Pingale Carotenoids from *Celocia argentea* leaves. **International** Conference on 'Impact of Chemical Research on

- Environment' ICRE-2016 at New Arts Commerce and Science College, Parner, Ahmednagar on 17-18 February 2016.
4. **Anil G. Markandeya**, Narayan P. Firke, Suneeti S. Gore, Sunita Salunke-Gawali and Shirish Pingale. Hydrodistillation and identification of novel compounds from *Celocia argentea* leaves by GC-MS. **National** conference on 'Modern Analytical Techniques in Microbiology, Fergusson College, MATM-2014.
 5. **Anil G. Markandeya**, Narayan P. Firke, Suneeti S. Gore, Sunita Salunke-Gawali and Shirish Pingale. Phytochemicals from *Celocia argentea* by LC-MS. **International** conference on 'Recent Trend and Challenges in Science and Technology' RTCST-2014 organized by Padamashri Vikhe Patil College, Pravaranagar on 20-22 August 2014.
 6. **Anil G. Markandeya**, Narayan P. Firke, Sunita Salunke-Gawali and Shirish Pingale. Flavonoids and Lipids from *Celocia argentea* by LC-MS. **National** conference on 'Advances in Chemical Sciences with Special Reference to Molecular Spectroscopy, Material Science and Organic Electronics (NCACS-2014) organized by Department of Chemistry, Fergusson College, Pune on 19-20 December 2014.
 7. Narayan P. Firke, Chetan V. Khachane and **Anil G. Markandeya**. Eugenol derivatives: A rational approach in computer-assisted drug discovery. **International** Conference on drug design and discovery. (RACADD-2013) at Institute of Science Bangalore. 2013. Poster presentation.
 8. **Anil G. Markandeya**; Narayan P. Firke; Suneeti S. Gore, Shirish S. Pingale; Sunita Salunke-Gawali, Antibacterial activity of *Celocia argentea* leaves extract against *Staphylococcus aureus*. Environment Observer 2013, **National** Conference on Frontiers in Physical, Chemical and Biological Sciences, FPCBS-2013, by department of Chemistry, University of Pune. Poster Presentation.
 9. **Anil G. Markandeya**, Narayan P. Firke, Tanaji S. Kadam and Shirish S. Pingale. Synthesis of bio-available silver nano-particles from the *Celocia argentea* leaves extract. **National** Seminar on Recent trends in chemical and material sciences, at YM College, Pune, RTCMS-2013, Jan-2013, 65-69. Poster Presentation
 10. Narayan P. Firke, **Anil G. Markandeya**, Rajendra S. KondeDeshmukh and Shirish S. Pingale. Virtual screening of eugenol 1,2,3-triazole derivatives for their biological activity by molinspiration. **National** Conference on Drug Design and Discovery, (Nipani, DDD-2013), 2013, 65-69.

11. Narayan P. Firke and **Anil G. Markandeya**. Assessment of water quality and prediction of physicochemical, properties of surface and ground water. **National** Seminar on Role of Green Chemistry in Environmental Pollution (ROGCIP-2012), at Kada. Oral paper presentation
12. **Anil G. Markandeya**, Narayan P. Firke, Shirish Pingale and Sunita Salunke-Gawali ‘Comparison of two method of digestion for elemental analysis of *Celocia argentea* (Cockscomb) by ICP-OES’. **International** conference organized by Modern College, Shivajinagar, Pune on ‘Business Opportunities in Life Science’ on 28-30 January 2012.
13. Anil G. Markandeya, Narayan P. Firke, Shirish Pingale and Sunita Salunke-Gawali. Trace elemental analysis of *Celocia argentea* (Cockscomb). 1st CRSI Zonal meeting, (NCL, Pune), 2011. Poster Presentation
14. **Anil G. Markandeya**, Samir Shaikh and Shirish Pingale. Proximate and phytochemical analysis of *Adathoda vasica*. **National** Seminar on ‘Plant Biodiversity for Sustainable development’ organized by Department of Botany, University of Pune, Pune on 10-12 March 2011.
15. **Anil G. Markandeya** and Shirish S. Pingale. **International** conference on ‘Biodiversity and its conservation’ presented a poster on ‘Acute toxicity study of *Adathoda vasica* whole plant powder’ at Modern College, Pune on 28-30 January 2011.
16. **Anil G. Markandeya**. Regional Conference for Pune University college teachers of Chemical Science INNOVATION-2009 at KTHM College, Nasik for the minor research project sanctioned by BCUD, Pune University Pune-7 on 24-25 November 2009.
17. **Anil G. Markandeya**. Regional Conference for Pune University college teachers of Chemical Science two day conference presented a Poster at KTHM College, Nasik under INNOVATION-2008 for the minor research project sanctioned by BCUD, Pune University Pune-7 on November 10 & 11, 2008.