



PROFILE

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Google Scholar

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HOBBIES

- ✚ Reading and writing and articles
- ✚ Watching movies
- ✚ Playing individual sports
- ✚ Listening Spiritual Songs and playing Begena

ENDALE TEJU (PHD)

Associate Professor of Analytical Chemistry

EDUCATION

Addis Ababa University

2009 - 2014

PhD in Analytical Chemistry from Addis Ababa University, Addis Ababa, Ethiopia

Addis Ababa University

2003 - 2005

MSc in Analytical Chemistry from Addis Ababa University, Addis Ababa, Ethiopia

Haramaya University

1996 – 2000

BEd in Chemistry from Haramaya University, Haramaya, Ethiopia

WORK EXPERIENCE

Haramaya University, Associate Professor

2020– ---

Haramaya University, Assistant Professor

2014–2020

Haramaya University, Lecturer

2005–2009

SKILLS

- Microsoft Office skills
- Written and verbal communication
- Teamwork and collaboration
- Active Listening
- Empathy
- Conflict Resolution
- Leadership

Research Interest

My research interest includes development of miniaturized sample preparation methods based on chromatographic techniques for the trace level quantitative determination of toxic heavy metals and multiclass pesticide residues from environmental matrices; spectroscopic analyses, catalysis, nanochemistry; Utilization of nanomaterials for various applications including sensor, sorption/desorption and ion exchange processes, etc

Local Research projects and their status

- Potential Drug Design and Development against Mycobacterium Tuberculosis: Experimental and Molecular Modelling Studies (3.1 Million Birr) (HUGG_2021_06_02_48) (New 2021- 2024)(Co-PI)
- Sustainable Metal Organic Frameworks (MOFs) and Spent Zeolites for Energy, Catalysis and Soil Amendment Applications (400,000 Birr) Grant No. HURG_2020_03_02_75 2020-2023 (ongoing) (Co-PI)
- Magnetic Silver Nanoparticles Supported on low cost adsorbents: Synthesis and Application for Water Disinfection (172,000 Birr) Grant No. HURG-2018-06-02-46 (2018-2019) (Completed) (PI)
- Fabrication of Novel Advanced Materials for Agricultural and Environmental Applications (480,000 ETB) Grant No. HURG-2016-03-02 (2016-2019) (Completed) (Co-PI)
- Synthesis and Characterization of Metal Organic Frameworks (MOFs) and Heterojunction Nanocomposites for Photocatalytic, Solar cell, Sorption and Desorption Applications (428,000 ETB) Grant No. HURG-2014- 03-03 (2014-2015) (Completed) (Co-PI)

Sample Publications

1. Buzuayehu Abebe, Abi M. Taddesse, Tesfahun Kebede, **Endale Teju** and Isabel Diaz. 2017. Fe-Al-Mn ternary oxide nanosorbent: Synthesis, characterization and phosphate sorption property. *Journal of Environmental Chemical Engineering* 5: 1330–1340. <https://doi.org/10.1016/j.jece.2017.02.026>
2. Sivasubramanian Muthusaravanan, **Endale Teju** and Arumugam Thangamani. 2019. A greener and microwave-mediated synthesis and spectral studies of β -aminomethylhydroxylcoumarins. *Chemical Data Collections*, 20, 100199. <https://doi.org/10.1016/j.cdc.2019.100199>
3. Neelaiah Babu, Wubetu Belay and **Endale Teju**. 2019. Amberlite™ IRA67: A novel and efficient ion exchange resin catalyst for the synthesis of 1, 8-dioxoxanthene derivatives. *Cogent Chemistry* (2019), 5: 1708160. <https://doi.org/10.1080/23312009.2019.1708160>
4. Fekadu Tsegaye, Abi M. Taddesse, **Endale Teju** and Minbale Aschalew. 2020. Preparation and Sorption Property Study of $\text{Fe}_3\text{O}_4/\text{Al}_2\text{O}_3/\text{ZrO}_2$ Composite for the Removal of Cadmium, Lead and Chromium Ions from Aqueous Solutions. *Bull. Chem. Soc. Ethiop.* 2020, 34(1), 105-121. DOI: [10.4314/bcse.v34i1.10](https://doi.org/10.4314/bcse.v34i1.10)
5. Jone Pradeepa Susairaj, Savaş Kaya, R. Ramamoorthy **Endale Teju**, Boobalan M. S. 2020. Spectra, Electronic Structure of 2-Vinyl Naphthalene and Their Oligomeric Scaffold Models: A Quantum Chemical Investigation. *Chemistry Africa*, doi.org/10.1007/s42250-020-00137-4.
6. Tilahun Guluma, Neelaiah Babu G., **Endale Teju**, Aman Dekebo. 2020. Phytochemical investigation and evaluation of antimicrobial activities of *Brucea antidysenterica* leaves. *Chemical Data Collections*, 28 100433. <https://doi.org/10.1016/j.cdc.2020.100433>
7. Abi M. Taddesse¹, Toleshi Teshome Ketema and **Endale Teju**. 2020. Cellulose Acetate-Sn(IV) Molybdophosphate: A Biopolymer Supported Composite Exchanger for The Removal of Selected Heavy Metal Ions. *Bull. Chem. Soc. Ethiop.*, 34(2), 259-276. DOI: [10.4314/bcse.v34i2.5](https://doi.org/10.4314/bcse.v34i2.5)
8. **Endale Teju**, Bezuayehu Tadesse & Negussie Megersa. 2021. Salting-out-assisted liquid–liquid extraction for the preconcentration and quantitative determination of eight herbicide residues simultaneously in different water samples with high-performance liquid chromatography. *Separation Science and Technology*, 56(4): 719-729. <https://doi.org/10.1080/01496395.2016.1276596>
9. Asnake Tesfaye, Meseret Amde*, **Endale Teju**, Deribachew Bekana, and Negussie Megersa. 2021. Acetic acid modified zinc oxide nanoparticles for solid phase extraction of Cu(II) and Cr(III) in water. *Toxicological and Environmental Chemistry* DOI: <https://doi.org/10.1080/02772248.2021.2007922>
10. Zewdu Bezu Gemechu, Boobalan Maria Susai, Abi M. Tddesse, **Endale Teju**, and R. Ramamoorthy. 2021. Biosensitivity and Theoretical Electronic Structure Investigations on 3-(2-Hydroxyphenyl)-2-

iminothiazolidine-4-one and its Zn^{2+} and Cd^{2+} Metal Complexes. *Journal of Chemistry*, Volume 2021. <http://doi.org/-10.1155/2021/8950357>.

11. Bruktawit Mekonnen Sanka, Dereje Mamo Tadesse, **Endale Teju Bedada**, Ephriem T. Mengesha, Neelaiah Babu G. 2022. Design, Synthesis, Biological Screening and Molecular Docking Studies of Novel Multifunctional 1, 4-Di (Aryl/Heteroaryl) Substituted Piperazine Derivatives as Potential Antitubercular and Antimicrobial Agents. *Bioorganic Chemistry*. DOI. [10.1016/J.BIOORG.2021.105568](https://doi.org/10.1016/J.BIOORG.2021.105568)
12. Wubishet Legese, Abi M. Tadesse and **Endale Teju***. 2022. $Al_2O_3/Fe_3O_4/ZrO_2$ Ternary Oxide Sorbent: Synthesis, Characterization and Sorption Behavior to Fluoride and Phosphate Ions from Aqueous Solution. *Bull. Chem. Soc. Ethiop.* 2022, 36(3), 555-569. DOI: [10.4314/bcse.v36i3.6](https://doi.org/10.4314/bcse.v36i3.6)
13. Mechalu Abebe Adose, **Endale Teju Bedada**, R. Ramamoorthy, S. Ramalingam, Ephrem Tadesse, Boobalan Maria Susai. 2022. Molecular design, electronic structure and optoelectronic properties of vinyl fused monomeric and oligomeric benzothiazoles—A theoretical investigation. *Synthetic Metals* 289, 117133. <https://doi.org/10.1016/j.synthmet.2022.117133>
14. Yibrehu Bogale Dibabe, Abi M. Tadesse, Endale Teju*, Yiheyis Bogale. 2022. Hydrous Fe-Al-Zr Oxide Composite Filled Dialysis Membrane Tubes for Phosphate Desorption Study from Acidic Soils. *Environmental Nanotechnology, Monitoring & Management*, 18, 100723. <https://doi.org/10.1016/j.enmm.2022.100723>
15. Tizita Woldegebreal, Endale Teju*, Ameha Kebede, Abi Tadesse and Zewdu Bezu. 2022. Water Disinfection Using Kaolinite Supported Magnetic Silver Nanoparticle. *Chemical Data Collections*, [https://Doi.Org/10.1016/J.Cdc.2022.100857](https://doi.org/10.1016/J.Cdc.2022.100857)
16. Fekadu Kassahun, Abi M. Tadesse, **Endale Teju***, Yiheyis Bogale. 2023. Magnetic $Al_2O_3/ZrO_2/Fe_3O_4$ nanocomposite: Synthesis, characterization, and application for the adsorptive removal of nitrate from aqueous solution. *Groundwater for Sustainable Development* (20) 100873. <https://doi.org/10.1016/j.gsd.2022.100873>
17. Yasmin Abdurahman, Deribachew Bekana, Ayalew Temesgen, Negussie Bussa, Minbale Aschale, **Endale Teju** and Meseret Amde. 2023. Magnetic Coffee Residue Biosorbent for Selective Extraction of Zinc Oxide Nanoparticles in Water Samples. *Bull. Chem. Soc. Ethiop.* 37(4), 859-873. DOI: [10.4314/bcse.v37i4.5](https://doi.org/10.4314/bcse.v37i4.5)
18. Berhanu Refera, Deribachew Bekana, Ayalew Temesgen, **Endale Teju**, Abdisa Jabessa. 2023. Bioinspired gold nanoparticles-based colorimetric nanosensor for detection of antimony in plastic bottled water. *Research on Chemical Intermediates*. <https://doi.org/10.1007/s11164-023-05037-z>

REFERENCES

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2. PROF. ABI TADDESSE

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I confirm that the entire information given above is true and honest to the best of my knowledge.



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