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Education

2018 - Present  **Ph.D.** student in energy science and technology, **Myongji University, south Korea**

2015 – 2017  **M.Sc.** in Chemical Engineering, **Addis Ababa University, Ethiopia.**
Thesis title: *Development of Sulfonated Carbon Catalyst for Epoxidation of Vernonia Oil.*

2010 – 2015  **B.Sc.** in Chemical Engineering, **Addis Ababa University, Ethiopia.**
Project title: *Production of Biolubricant from Castor (Ricinus) Oil*

Work experience

2015 – 2018  **Assistant lecturer**, in Addis Ababa institute of technology (AAiT), School of Chemical and Bio-engineering **Addis Ababa University, Ethiopia.**

Research Publications

1. **Gebremedhn T. Gebremichael**, Hern Kim, Grace M. Nisola, Wook-Jin Chung
“Effective recovery of Neodymium (III) Using phosphorous doped mesoporous carbon from Phosphogypsum Waste”, **(in Preparation)**
2. **Gebremedhn T. Gebremichael**, Hern Kim, Grace M. Nisola, Wook-Jin Chung
“Facile synthesis of Phosphorus-Doped Carbon Quantum Dots for adsorptive recovery of Heavy rare earth elements from industrial source”, **(in Preparation)**.
3. **Gebremedhn T. Gebremichael**, Hern Kim, Grace M. Nisola, Wook-Jin Chung,
“Asparagine anchored on mesoporous silica for Au (III) capture: Elucidation of adsorption-reduction mechanisms and their implications towards selective Au (III) recovery”, *Applied Surface Science* 567 (2021) 150743.

4. Biniyam T. Amdebrhan, Lidya Damtew, Desta Tesfay, Hanan Endris, **Gebre-medhn T. Gebremichael**, “Production of Biolubricant from Castor (Ricinus) Oil”, International Journal of Engineering Innovation & Research, Volume 4, Issue 5, ISSN: 2277 – 5668.
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Conference and seminars

1. Poster presentation: **2019 International Environmental Engineering conference and annual Meeting of Korean Society of Environmental Engineers jointly with the 4th international conference on biological waste as Resource (IEEC &BWR 2019) BEXCO, Busan, South Korea. (December 10-13)** “Adsorption and Separation of Neodymium using Phosphorylated Chitosan from Phosphogypsum Waste.”
 2. Poster presentation: **2019 AiChE Annual Meeting, Orlando, FL, USA. (November 10-15, 2019)**. “Preparation of Asparagine functionalization Mesoporous silica for selective adsorption of Au (III) from Electronic waste.”
 3. Poster presentation: **2021 KiChE spring Meeting Symposium, BEXCO, Busan, South Korea, (April 21-23)** “Effective Recovery of Neodymium (III) from Phosphogypsum Waste Using Phosphorous-doped mesoporous Carbon.”
 4. Poster presentation: **2018 KiChE spring Meeting, CECO, CHANGWON, South Korea, (April 25-27)** “Electrospun nanofiber membrane adsorber with lithium-ion sieves for selective and continuous Li recovery from coal ash leachate.”
 5. Poster presentation: **2018 The Korean BioChip Society Fall Meeting, KAL Hotel, Jeju, South Korea, (November 07-09)**. “Design of lithium selective Fluoroionophore based on 14-crown –ether anthraquinone.”
 6. Poster presentation: **2018 KiChE Fall Meeting, EXCO, Daegu, South Korea, (October 24-26)**. “Molecularly ion imprinting polymer based electrospan nanofiber as highly effective adsorbent for effective recovery of mercury ions from aqueous solutions.”
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Reference

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