

Daniel Nigusse Mengesha

Educational

B.Sc.

September 2012 - May 2017

School of Chemical and Bio Engineering, (Major: process engineering).

Addis Ababa institute of Technology (AAiT) Addis Ababa university (AAU),

Addis Ababa, Ethiopia

M.Sc.

February 2018 – February 2020

Department of Energy science and Technology, Myongji University

Yongin, South Korea.

Accomplishment

A- Publication

Azo-dye derived oxidized-nitrogen rich carbon sheets with high adsorption capability for dye effluent under both batch and continuous conditions

Daniel N. Mengesha, Richard Appiah-Ntiamoah*, Hern Kim**

(First author; 2021; 279 (2021) 130463; Chemosphere, IF: 7.086)

B- Conference

Title-1 Electrospun nanofiber membrane adsorber with lithium-ion sieves for selective and continuous Li recovery from coal ash leachate (우수 포스터 발표상 후보) (Co-author, poster)

(2018 KICHE Spring; Changwon, South Korea; April 26-27, 2018)

Title-2 Cyclodextrin complexed Poly (ionic liquid) with pseudo-LCST property as draw solutes in forward osmosis (우수 포스터 발표상 후보) (Co-author, poster)

(2018 KICHE Spring; Changwon, South Korea; April 26-27, 2018)

Title-3 Development of high-capacity Li + adsorbents from H₂ TiO₃ /polymer nanofiber composites: Systematic polymer screening, characterization and Evaluation (Presenting Author, poster)

(2018 KICHE FALL; DAEGU South Korea; October 24-26, 2018)

Title-4 Preparation of Cucurbituril-Loaded PVC Nanofiber-Membrane for Metal Ion recovery
(Co-author, poster)
(2018 KICHE FALL; DAEGU South Korea; October 24-26, 2018)

Title-5 Molecularly ion-imprinted polymer-based electrospun nanofibers as highly effective adsorbent for removal of mercury ions from aqueous solution (Co-author, poster)
(2018 KICHE FALL; DAEGU South Korea; October 24-26, 2018)

Title-6 Monohydroxydibenzo-13-, dihydroxy-15-, dihydroxy-17-, and dihydroxy-19- thia-crown-4 Ether Impregnated Polypropylene Membranes for selective Recovery of Precious Metals
(Co-author, poster)
(2018 KICHE FALL; DAEGU South Korea; October 24-26, 2018)

Title-7 Crown Ether-Decorated Phosphazene-Modified Magnetic Graphene Oxide as a Composite Adsorbent Material for Selective Lithium Ion Recovery from Seawater (Co-author, poster)
(2018 KICHE FALL; DAEGU South Korea; October 24-26, 2018)

Title-8 $\text{Li}_{1-x}\text{Ni}_{0.33}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2/\text{Ag}$ for electrochemical lithium recovery from brine
(Co-author, poster)
(2018 KICHE FALL; DAEGU South Korea; October 24-26, 2018)

Title-9 $\text{Li}_{1-x}\text{Ni}_{0.5}\text{Mn}_{1.5}\text{O}_4/\text{Ag}$ for electrochemical lithium recovery from brine and its optimized performance via response surface methodology (Presenting Author, poster)
(2018 KICHE FALL; DAEGU South Korea; October 24-26, 2018)

Title-10 Surface Functionalization of Magnetite for Selective Recovery of Dysprosium (Dy^{+3}) from Permanent Magnet Waste (First author, poster)
(2019 AIChE ANNUAL MEETING; Hyatt Regency, Orlando USA; November 10-15, 2019)

Title-11 Selective recovery of dysprosium (Dy^{3+}) from simulated permanent magnet waste using diglycolic acid-functionalized magnetite (First author, poster)
(IEEC & BWR 2019; BEXCO, Busan, South Korea; December 10- 13, 2019)

Title-12 Dysprosium (Dy^{3+}) metal recovery from simulated permanent magnet waste using N-(phosphonomethyl) - iminodiacetic acid-functionalized GO (First author, Poster)
(2020 KICHE FALL, Online)

Title-13 Removal of organic dyes from wastewater using heteroatom-doped carbon (First author, Poster)

(2020 KICHE FALL, Online)

Title-14 Surface charge tuning of activated carbon and N/S/O doped carbon using Polyethyleneimine for wastewater treatment (First author, Poster)

(2021 KSIEC Spring Meeting; Busan, South Korea; May 12-14, 2021)

Title-15 Preparation of functional polymer composite system composed of Congo red derived S/N/O doped carbon (First author, Poster)

(Polymer Society of Korea; Gyeongju, South Korea; October 20-22, 2021)