

2026

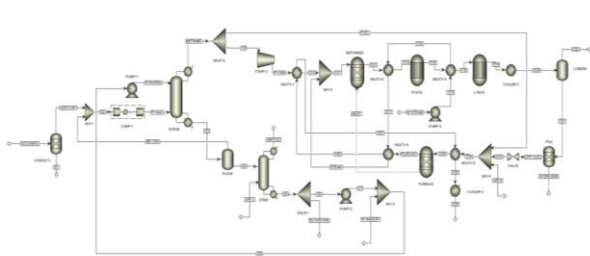
공정솔루션연구실

(송대성 교수님 연구실)

학부연구생 모집

연구실 소개

- ✓ 폐배터리 내 금속 재활용 공정 모델링 및 최적화
- ✓ 유가금속 및 희토류 회수 공정 연구
- ✓ 탄소중립 고려한 지속 가능한 기술 연구 및 시뮬레이션 구현
- ✓ 포스코, 현대제철, SK 등 기업과제 다수 수행



지원 자격



✓ 학점 3.5 이상

- ✓ 3 학년 대상
- ✓ 연구 분야에 관심 있는 학생
- ✓ 대학원 진학에 관심 있는 학생

활동 내용

- ✓ 실험 및 시뮬레이션 보조
- ✓ 분석 장비 이용 및 데이터 분석

지원 방법

- ✓ 이메일 지원 (dssong@jnu.ac.kr)

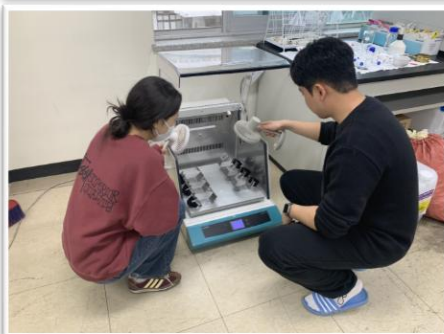


기타 문의사항: csb3014@naver.com

모집 기간

- ✓ ~ 9월 30일 (수)까지

연구실 사진



논문 리스트 (2025)

Waste Management 201 (2025) 114787



Contents lists available at ScienceDirect

Waste Management

journal homepage: www.elsevier.com/locate/wasman



Research Paper

Enhancing lithium recovery from spent lithium-ion batteries: Techno-economic analysis comparison with and without extractant recovery process

Seungu-Cho, Thang Toan Vu, Junghyeon-Seo, Jieun-Cha, Yeongeun-Choi, Daesung-Song^{*}

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International Journal of Hydrogen Energy

journal homepage: www.elsevier.com/locate/ijhe



Techno-economic and environmental assessment of hydrogen production utilizing captured methane from hydropower reservoirs

Yeongeun Choi[✉], Thang Toan Vu, Seungu Cho[✉], Jieun Cha[✉], Seohyeon Park[✉], Seokbeom Choi[✉], Hojung Kim[✉], Daesung Song[✉]

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Journal of Water Process Engineering 71 (2025) 107262



Contents lists available at ScienceDirect

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journal homepage: www.elsevier.com/locate/jwpe



Economic and environmental implications of extractant loss in lithium recovery from waste battery effluent: A comparative study of β -diketone-based extractants, HDBM and HBTA

Jieun-Cha, Thang Toan Vu, Junhyung-Seo, Seungu-Cho, Yeongeun-Choi, Daesung-Song^{*}

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Journal of Energy Storage

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Research papers

Techno-economic evaluation of Lithium hydroxide recovery from waste battery effluent: Process design and scalability assessment

Junhyeong-Seo¹, Thang Toan Vu¹, Seungu-Cho, Jieun-Cha, Yeongeun-Choi, Hojung-Kim, Daesung-Song[✉]

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