



ENVIRONMENTAL &
WATER RESOURCES
INSTITUTE

Journal of Environmental Engineering

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Call for Papers

Special Collection “Recovery of Critical and Precious Metals from Wastewater and Brine”



Aims & Scope

Critical metals (CMs, e.g., Li, Cs, Sr, Ga, Co, Cr, Ir, etc.) and precious metals (PMs, i.e., Au, Ag, Pt, Pd, Ru, Rh, Ir, Os, and Re) are deemed critical minerals considering their widespread applications and role in national security and economic development. There must be a clear supply chain strategy as they are mostly imported by many countries. Recently, recovery of CMs and PMs from wastewater and brine streams have been considered as a promising alternative for their production towards circular economy and sustainability. This special collection, entitled “Recovery of Critical and Precious Metals from Wastewater and Brine”, is intended to highlight both recent progress and future perspectives on advanced and practical techniques for effective recovery of CMs and PMs from wastewater and brine. Research papers, State-of-the-Art reviews and Perspective/Forum papers that describe the most recent and cutting-edge accomplishments in the area of critical and precious metals recovery are welcome. This special collection will focus on the following major themes:

Topics

This Special Collection aims to stimulate scientific exchange and discussion about new and interesting ADV developments and applications, including interesting historical perspectives and novel deployment strategies. Potential topics include:

- Novel studies and developments in advanced technologies for recovery of CMs and PMs from wastewater and brine.
- Developments in optimizing the current methods for recovery of CMs and PMs from aqueous environment.
- Case studies and industrial experiences dealing with recovery of CMs and PMs from wastewater and brine.

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Manuscript Submission Guidelines

1. Please submit your manuscript via ASCE *Journal of Environmental Engineering* website: <https://www.editorialmanager.com/jrneeng>
2. Once on the Editorial Manager website, please indicate that your paper is for the special collection “Recovery of Critical and Precious Metals from Wastewater and Brine” edited by Mohammad Mahdi A. Shirazi, Leonard Tijing, PeiSean Goh, and Marek Bryjak.
3. Detailed information on the submission process is provided in the document “Publishing in ASCE Journals: A Guide for Authors” available at <https://doi.org/10.1061/9780784479018>

Please note that all accepted papers submitted in response to this Call for Papers will be published in regular issues of the ASCE *Journal of Environmental Engineering* and assembled online on a page dedicated to this Special Collection. See <https://ascelibrary.org/page/joeeedu/specialcollections> for the list of Special Collections already published.

Deadline for Paper Submissions

The deadline for paper submissions under this solicitation is March 31, 2024.