

## AIMS AND SCOPE

The *Journal of Resource Recovery* (JRR) provides a forum for publishing a wide range of manuscripts, including Research Papers, Reviews, Case Studies, Perspectives, Registered Reports, Comments, and Brief Communications, from across the full range of disciplines related to resource recovery. All these types of contributions should highlight the development of sustainable technologies focusing on recovery of value-added materials and chemicals from waste resources. Moreover, all submissions must show a distinctive link with resource recovery technologies and applications. The main subject areas include, but are not limited to:

### - Resource recovery from liquid waste

Industrial wastewater  
Sea water and deep seawater mining  
Brine mining  
Produced water  
Urine refinery  
Geothermal wastewater recovery  
Pharmaceutical and biotechnology wastewater  
Agro-food wastewater  
Precious metal recovery from wastewater  
Hydrocarbon recovery

### - Resource recovery from solid waste

Waste electronic devices  
Biomass and biochar  
Sludge  
Minerals and coal  
Polymeric materials  
Composite materials  
Batteries  
Municipal, biological, and medical waste

### - Resource recovery from gaseous waste

Greenhouse gases capture, recovery, and conversion  
CO<sub>2</sub> and CO capture and conversion  
Air mining  
Atmospheric water production  
Direct air capture  
Industrial gaseous waste  
Biogas refinery  
Pre- and post-combustion capture and recovery  
Chemical-looping combustion  
Oxyfuel

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### - Energy recovery

Fuel cell technology  
Batteries  
Bioenergy and biofuels  
Renewable energy from resource recovery  
Blue energy  
Recovery of waste thermal and cooling energy  
Organic, inorganic and biowaste conversion to energy  
Hydrogen energy

- Innovative technologies, processes, and tools to enhance the resource recovery
- Life cycle assessment and management of resources and products (Emphasis is on pollution reduction, resource conservation, and improving resource efficiency and productivity)
- Substitution of primary resources by renewable or regenerative alternatives
- Sustainable and green technologies for resource recovery
- Multicriteria assessment of resource recovery technologies
- Stakeholder role in future of resource recovery
- Environmental impact and risk assessment of resource recovery technologies
- Case studies and modeling of resource recovery technologies
- Recovery of hazardous and radioactive resources
- Management and strategies for nonrecoverable resources
- Strategies for facilitation of resource recovery
- Economic analysis of resource recovery
- Smart cities

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