



Resource Management and Circular Economy Sustainability

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Deadline for manuscript
submissions:

22 November 2024

Message from the Guest Editors

The growth of the human population and the urgent need for a global sustainable transition to a greener energy grid system have led to an increase in the demand for raw materials. Furthermore, the production of waste due to this increase in the population and the need to satisfy the requirements of a technological society has grown considerably in recent years. The efficient management of both resources and waste has made it indispensable to achieve the sustainability goals required by a circular economy. Recycling is one way of reducing the demand for primary raw materials, but the increasing dilution of technological metals in consumer products has made the development of efficient and economic processes a major challenge. On the other hand, the continuous shortening of life cycles of different consumer products has increased the demand for these primary raw materials.

Research areas may include (but are not limited to) the following:

- Water resource management;
- Resource and waste management;
- Sustainability by design;

Process development for the recovery of critical raw materials.





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