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of chemicals or using green solvents as alternatives to hazardous solvents. Developing sustainable, bio-based, and biodegradable materials is another straightforward

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# From Waste to Wealth: Sustainable Synthesis and Processes for **Environment and Energy Applications**

Guest Editors:	Message from the Guest Editors
Dr. Pei Sean Goh	Dear Colleagues,
Prof. Dr. Ahmad Fauzi Ismail	The alarming level of waste generation has urged more
Dr. Jun-Wei Lim	studies and research to focus on approaches related to waste management, product life cycle assessment, and
Dr. Hooi Siang Kang	circular economy. Circular economy frameworks offer an opportunity for various technological innovations. This resource-efficient model emphasizes eliminating waste
Deadline for manuscript submissions: closed (30 September 2023)	and makes the entire economy more sustainable through waste reuse, reduction, and recycling. Numerous efforts have been devoted to minimizing the environmental impacts of a wide range of material production and industrial processes. These efforts include reducing the use



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strategy for achieving this goal.

Green manufacturing;

Biofuel and bioenergy;

Research areas may include the following:

 Sustainable waste conversions: • Water and wastewater treatment;

• Hydrogen production and utilization; • Hydrogen storage and transportation;

 Waste reutilization for material synthesis; • Waste conversions via bioremediation; • Green solvent for material synthesis;





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### **Editor-in-Chief**

#### Prof. Dr. Marc A. Rosen

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### Message from the Editor-in-Chief

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