Special Issue

Circular Economy in Energy Storage Materials

Message from the Guest Editor

The main scope of this Special Issue is the three main pillars of circular economy: redesign, repurpose and recovery in the area of energy storage materials—in general, strategies to extend materials' lifetime before they reach the end of life but also considering resources sustainability. Energy storage materials will include current and well established technologies, but also emerging and new technologies. One possible focus will be the design of electrodes and electrolytes which are of paramount importance in order to enhance the lifetime of a battery and battery safety during operation and during transportation, but also aiming to reduce the use of critical raw materials. The issue will also include papers focusing on battery repurposing and studies to understand lifetime prediction and state of health. Research work focusing on the recovery of key materials following the circular economy model, as well as providing greener approaches to current recovery methodologies by reducing or eliminating waste hazard will also be covered in this Special Issue.

Guest Editor

Dr. Cristina Pozo-Gonzalo

Instituto de Carboquímica (ICB-CSIC), Miguel Luesma Castán, 4, 50018 Zaragoza, Spain

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Sustainable Chemistry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
suschem@mdpi.com

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About the Journal

Message from the Editor-in-Chief

There are many issues facing society, such as energy/food/water security, plastic pollution, antibiotic resistance, global warming. To solve these (and other issues), scientists and engineers need to work together to tackle these imminent dangers. The field of Green (or Sustainable) Chemistry has been transformed in the last 30 years since Paul T. Anastas and John C. Warner pioneered the now famous “12 Principles of Green Chemistry”. The journal, Sustainable Chemistry (published by MDPI), aims to be one of the go-to journals in the area, publishing cutting-edge research in the area more broadly. The open access model allows our work to reach a broad base of readers from all corners of the world.

Editor-in-Chief

Prof. Dr. Matthew Jones
Department of Chemistry, University of Bath, Claverton Down, Bath BA2 7AY, UK

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