Special Issue

Vanadium Redox Flow Battery and Its Applications

Message from the Guest Editor

It has now been more than 30 years since the first patent on the Vanadium Redox Flow Battery (VFB) was granted to our group at University of New South Wales (UNSW Sydney) and we are thrilled to see the increasing interest that has led to the extensive research, development, field trials and now commercial production of the VFB around the world. VFB can now be regarded as a mature energy storage technology, but, as with all mature technologies, ongoing research is helping to improve performance and reduce cost for broader implementation in a range of energy storage applications. In this first Special Issue dedicated to the Vanadium Redox Flow Battery, we hope to collect contributions from all the research groups and companies currently engaged in VFB research.

- vanadium electrolytes
- electrolyte production methods
- electrode materials
- stack design and modelling
- cell materials
- advanced control
- quality control
- system design
- performance evaluation

Guest Editor

Prof. Dr. Maria Skyllas-Kazacos
School of Chemical Engineering, The University of New South Wales, UNSW, Sydney, NSW 2052, Australia

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

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Editor-in-Chief

Prof. Dr. Karim Zaghib
Department of Chemical and Materials Engineering, Concordia University, Montréal, QC H3G 1M8, Canada

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