Special Issue

The Development of Green Solvents and Their Application in Separation Processes

Message from the Guest Editors

Nowadays, the development of green solvents and their application in separation processes is imperative, due to the climate change and the necessity of developing environmentally friendly processes, transitioning forwards circular processes. In this context, in recent years various solvents with interesting properties have been studied, including ionic liquids (IL), deep eutectic solvents (DES) and aqueous systems composed of polymers such as polyethylene glycol. Ionic liquids are often referred to as as “Green Solvents”, since many ionic liquids have negligible vapor pressure, are not flammable, cannot be inhaled and have tunable properties. Certainly, these aspects make ionic liquids safer and more environmentally benign solvents than conventional VOCs (volatile organic compounds)...This Special Issue aims to contribute to the dissemination of all the applications of green solvents and the generation of knowledge that will allow their application on an industrial scale in the future.

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Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

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