

## Special Issue

# High Ionic Conductivity Soft Matter for Energy Storage and Energy Conversion

### Message from the Guest Editor

The development of high ionic conductivity soft matter is a key component for energy storage and energy conversion devices. In past several decades, polyethylene oxide (PEO) has served as a candidate for solid or gel polymer electrolytes. However, the crystallinity of PEO limits its ionic conductivity, diffusivity, and the applications at high temperature. Therefore, new polymers with high ionic conductivity and high performances are being developed, such as polysiloxane, polyimide, polycarbonate, and so on. This Special Issue is concerned with the ionic transport (migration/diffusion) phenomena to the design/application of linear or cross-link chain structure. Topics may include the studies of material development, ionic transport simulation/calculation, ionic kinetics, in situ/operando observation, cell/battery performance, and chemical/physical behaviors.

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### Guest Editor

Prof. Dr. Fu-Ming Wang

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### Deadline for manuscript submissions

closed (30 November 2020)



## Polymers

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Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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