Special Issue

Carbon Capture and Storage: A Way for the Future

Message from the Guest Editor

In recent years, direct air capture (DAC) of CO2 has attracted immense attention. Industrialization has led to a significant rise in CO2 concentration, which is responsible for global warming and a serious threat to many species in near future. Most CO2 capture work so far has focused on post-combustion CO2 capture from large point sources, which is not sufficient to potentially reduce CO2 emissions in a practically meaningful manner. Direct CO2 capture from air provides the best solution to considerably reducing CO2 concentration in air. So far, most studies have focused on loading different amines (mostly polymeric) in high surface area materials (zeolites, silica, and MOF) and testing them for CO2 uptake capacities. However, there have been very few studies on stability, regenerability, and amine efficiency of these adsorbents, which are a must for any practical application in the near future. Contributions to this Special Issue should report on carbon capture and storage technologies for practical applicability. Research articles, reviews, and short communication are welcome.

Guest Editor

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Message from the Editor-in-Chief

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 4.7.

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.

Editor-in-Chief

Prof. Dr. Alexander Böker
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