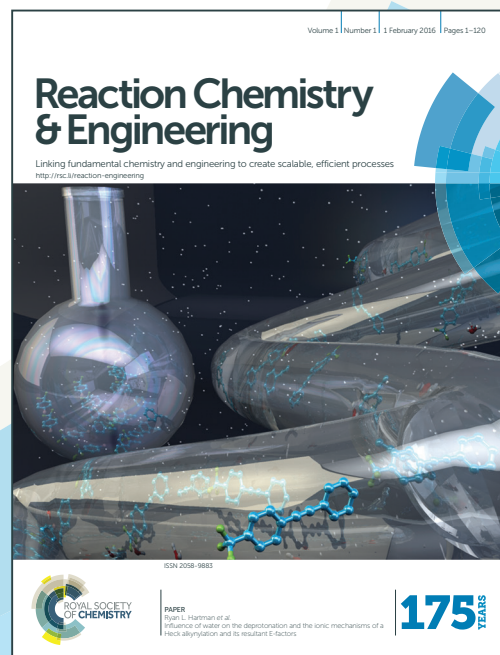


Reaction Chemistry & Engineering



Registered charity number: 207890

Bridging the gap between chemistry and chemical engineering

- Led by Editorial Board Chair Klavs Jensen, Massachusetts Institute of Technology, USA
- A high impact home for multiscale understanding of reactions, at the interface of chemical engineering and chemistry
- Uniting the communities of chemists and chemical engineers who work to ensure the crucial role of reaction chemistry in today's world



@RSC_ReactionEng

Submit your work online
rsc.li/reaction-engineering



THE QUEEN'S AWARDS
FOR ENTERPRISE:
INTERNATIONAL TRADE
2013



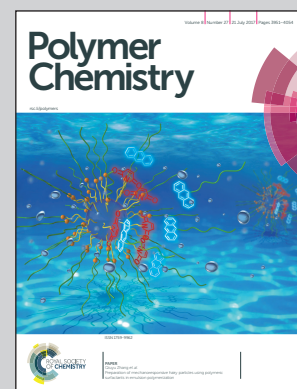


Highlighting research results from Prof. Jinyan Wang's Lab at Dalian University of Technology, Dalian, China.

Construction of flexible and stable near-infrared absorbing polymer films containing nickel-bis(dithiolene) moieties *via* ligand-exchange post-polymerization modification

Jianhua Han, Jinyan Wang, Xigao Jian and co-workers present a ligand-exchange post-polymerization modification approach to synthesize high molecular weight polymers containing nickel-bis(dithiolene) segments up to 46%. Taking advantage of the high loading of nickel-bis(dithiolene) moieties, these polymeric materials exhibit ultra-low band gap ($E_g = 0.81$ eV), λ_{\max} of approximately 1200 nm and $\epsilon > 10^4$ mol⁻¹ L cm⁻¹, with the merits of stretchability, solution processability and the ability to form free-standing films.

As featured in:



See Jianhua Han et al.,
Polym. Chem., 2017, 8, 3977.



rsc.li/polymers

Registered charity number: 207890