

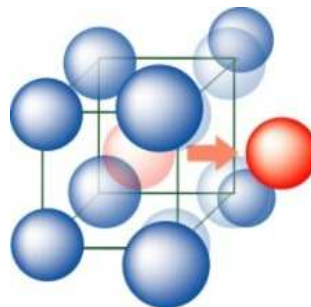
Condensed Matter Physical Chemistry

Specific Research Topics

Ionic Plastic Crystals

New class of ionic plastic crystals and liquid crystals are investigated.

T. Hayasaki, S. Hirakawa, and H. Honda, *Bull. Chem. Soc. Jpn.*, **86**, 993-1001 (2013). *etc.*



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NMR

New Cooling Materials

The materials can cool rooms on hot days without any electrical or human energy.

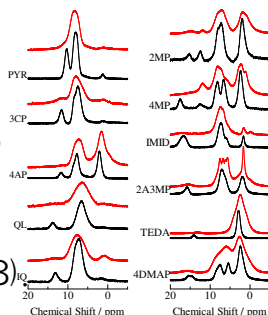
A. Suzue, H. Honda, M. Kadokura, *et al.*, *Bull. Chem. Soc. Jpn.*, **87**, 1186-94 (2014) (Selected Papers). *etc.*



Isotope Effects on Hydrogen Bonding

^1H MAS NMR spectra reveal H/D isotope effects on molecules

H. Honda, *Molecules*, **18**, 4786-4802 (2013) *etc.*



Zeolites

Zeolites can remove micropollutants from water systems.

A. Masuda, T. Morita, N. Itayama, *et al.*, *J. Prog. Res. Chem.*, **3**, 143-157 (2016). *etc.*

