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NATURE CHEMISTRY | ARTICLE

Directionally tunable and mechanically deformable ferroelectric crystals from rotating polar globular ionic molecules

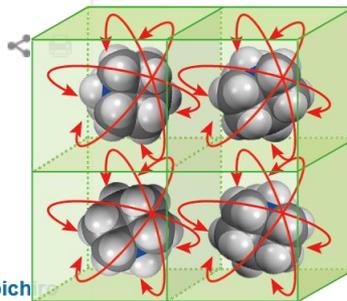
Jun Harada, Takafumi Shimojo, Hideaki Oyamaguchi, Hiroyuki Hasegawa, Yukihiro Takahashi, Koichi Satomi, Yasutaka Suzuki, Jun Kawamata & Tamotsu Inabe

Affiliations | Contributions | Corresponding authors

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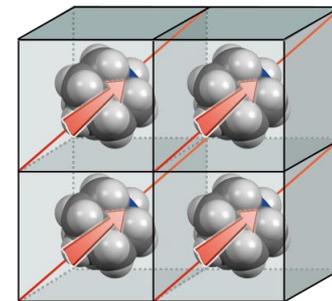
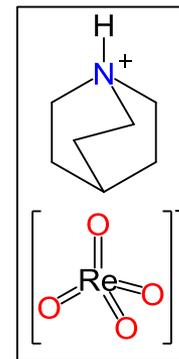
Received 22 August 2015 | Accepted 01 June 2016 | Published online 11 July 2016

柔らかい結晶相を利用して 分極自在な有機強誘電体を開発



柔らかい結晶相：
分子は自由に回転

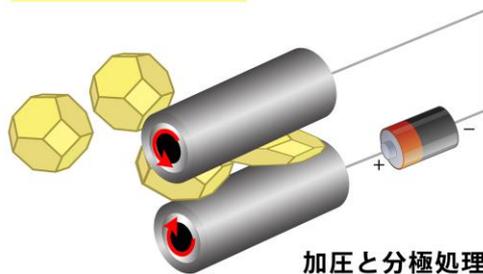
分極情報リセット



強誘電結晶相：
分子配向が揃い分極

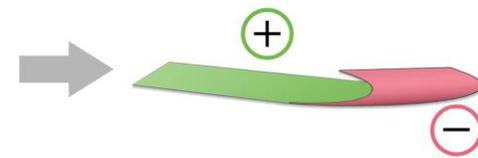
分極情報保存
↓
メモリー/スイッチング素子

柔らかい結晶



加圧と分極処理

強誘電体薄膜



教授 稲辺保



准教授 原田潤

