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Subject:

chemistry for sustainability,
energy, materials,
environment

Consists of:

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November 1, 2022

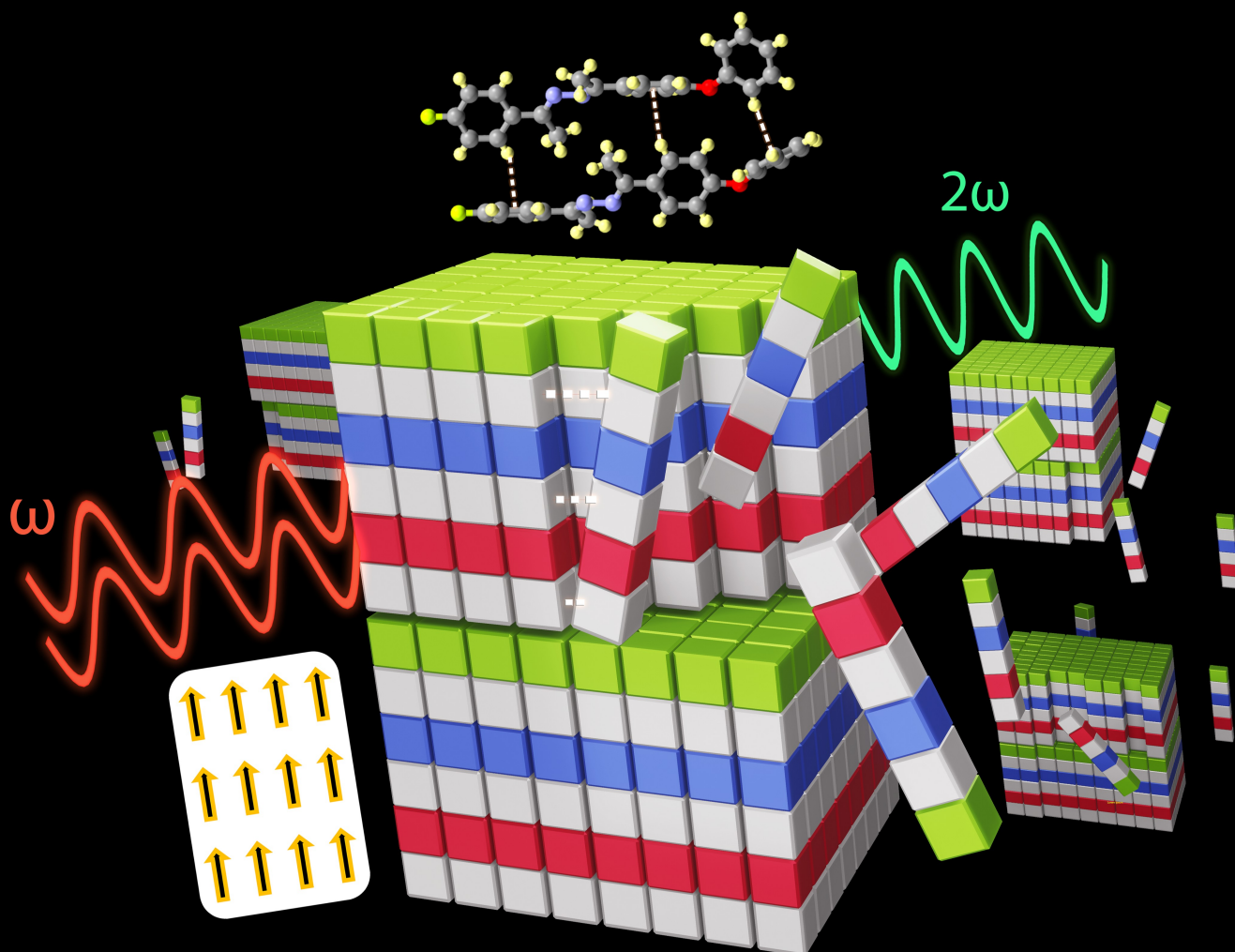
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Cover Feature:

R. Glaser and co-workers

Perfect Polar Alignment of Parallel Beloamphiphile Monolayers: Synthesis, Characterization, and Crystal Architectures of Unsymmetrical Phenoxy-Substituted Acetophenone Azines



$$\sum \mu_{\text{cryst}} = \sum \mu_{\text{molecule}}$$

The cover feature image shows perfect dipole-parallel alignment in crystals of the phenoxy series of (PhO, Y)-acetophenone azines with Y = F, Cl, Br, I. The crystal architecture of these ferroelectric non-linear optical materials embodies a rational design that aims at the polar stacking of parallel beloamphiphile monolayers (PBAMs). Lateral arene-arene triple T-contacts improve PBAM stability and facilitate faster crystallization of larger crystals. More information can be found in the Research Article by R. Glaser and co-workers.



*H. Bhoday, Dr. M. Lewis, Dr. S. P. Kelley, Prof. R. Glaser**

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Perfect Polar Alignment of Parallel Beloamphiphile Monolayers: Synthesis, Characterization, and Crystal Architectures of Unsymmetrical Phenoxy-Substituted Acetophenone Azines