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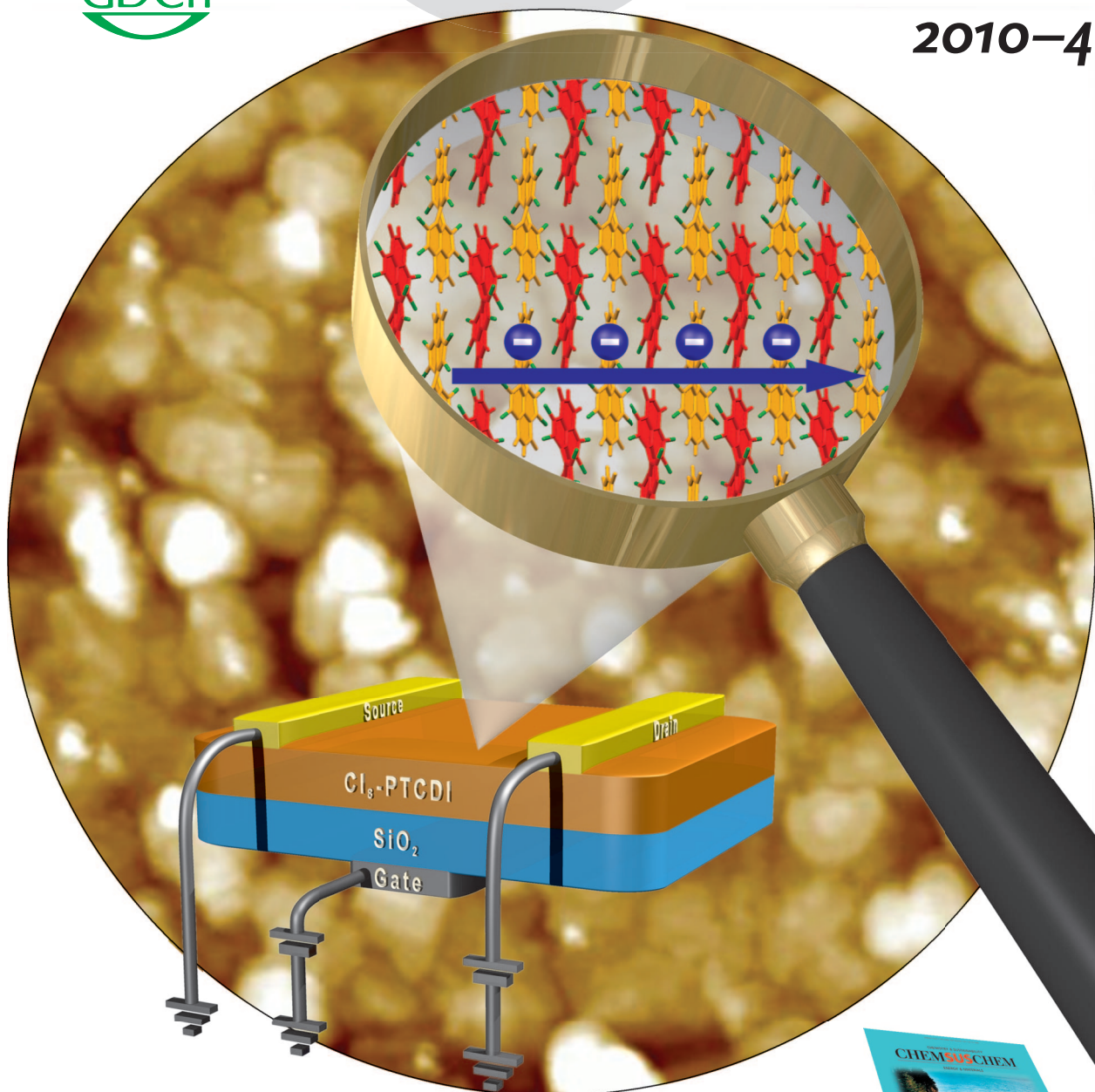
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Metal-Catalyzed α -Arylation

T. J. Colacot and C. C. C. Johansson

Oxyallyl Diradicals

H. F. Bettinger

Chiral Tetraphenylene

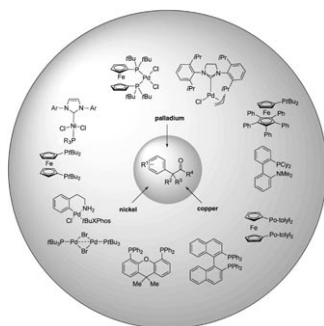
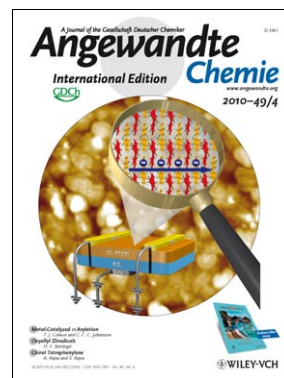
A. Rajca and S. Rajca



Cover Picture

Marcel Gsänger, Joon Hak Oh, Martin Könemann, Hans Wolfgang Höffken, Ana-Maria Krause, Zhenan Bao,* and Frank Würthner*

Molecular and crystal engineering rendered high-performance organic thin-film transistors (TFTs) based on a highly electron-poor octachloroperylene diimide ($\text{Cl}_8\text{-PTCDI}$). In their Communication on page 740 ff., F. Würthner, Z. Bao, and co-workers report an intriguing supramolecular crystal engineering concept that directs two-dimensional π - π -stacked percolation paths for electron transport and affords TFTs with excellent mobilities and on-to-off current ratios under atmospheric conditions.

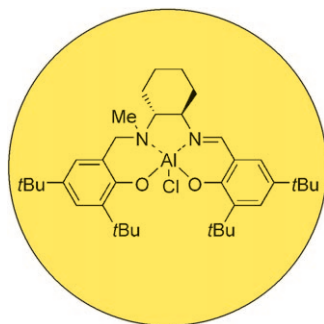
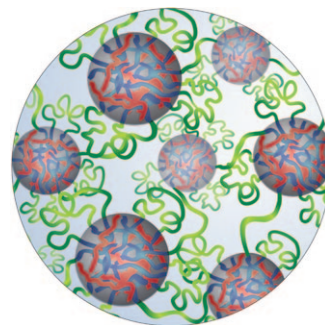


α -Arylation

Great progress has been made in regard to alternative synthetic routes for the metal-catalyzed α -arylation of carbonyl compounds under mild conditions. T. J. Colacot and C. C. C. Johansson highlight the current status of this area in their Review on page 676 ff.

Gels

In their Communication on page 708 ff., M. Lemmers et al describe gels formed from a triblock copolymer with charged end blocks and an oppositely charged polyelectrolyte. The gels respond to changes in concentration, temperature, ionic strength, pH value, and charge composition.



Asymmetric Catalysis

conjugated- and non-conjugated aldehydes can be converted into their corresponding α -hydroxy phosphonates using a chiral aluminum-salalen complex. T. Katsuki et al. describe this reaction in their Communication on page 797 ff.