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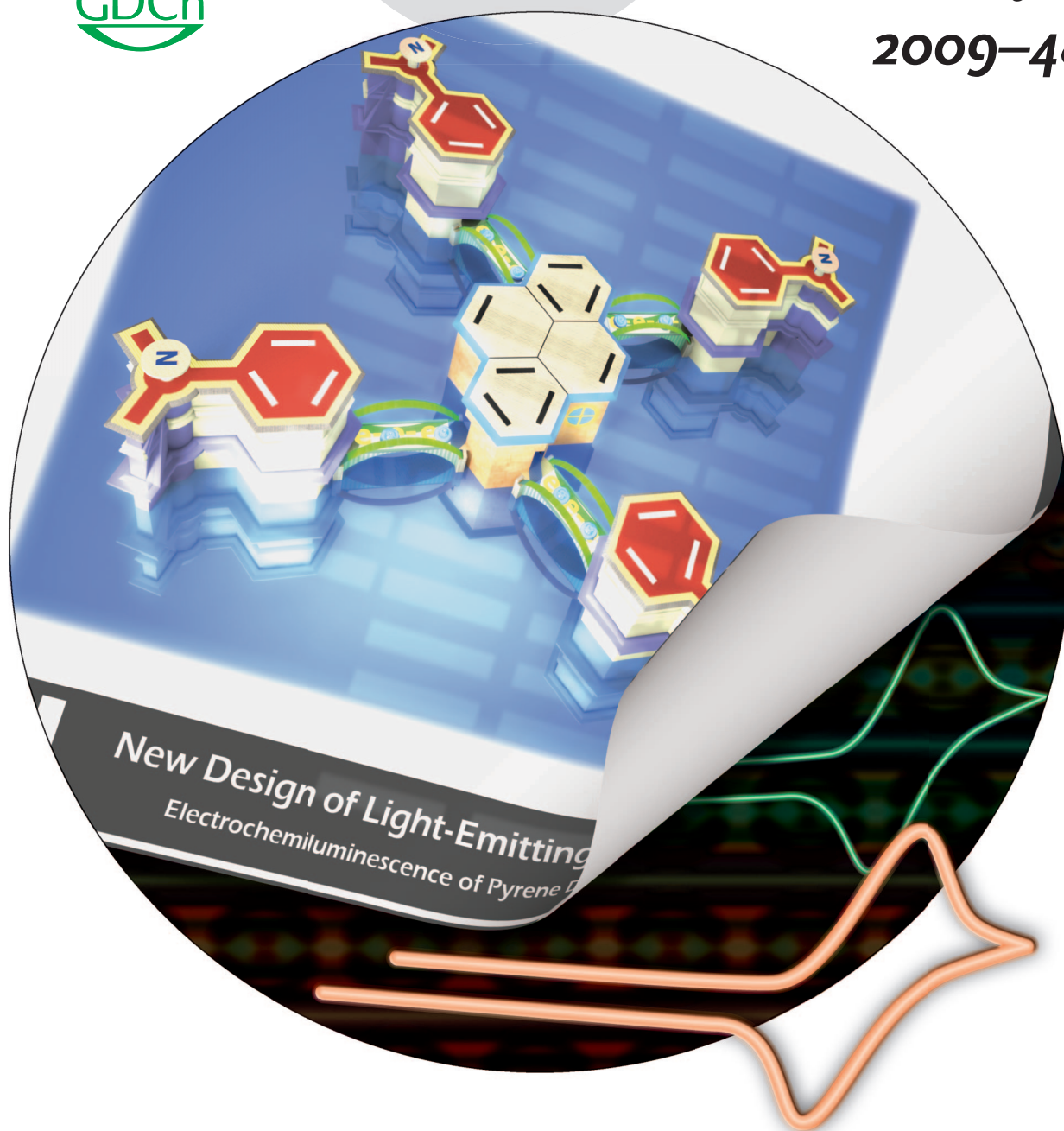
# Angewandte Chemie

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2009–48/14



**Organic Dyes for Solar Cells**

P. Bäuerle et al.

**Polyolefin Synthesis**

L. R. Sita

**Highlights: Carbocyanation • Organic Electronics •  
C–C Activation**

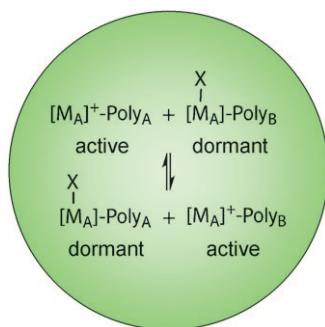
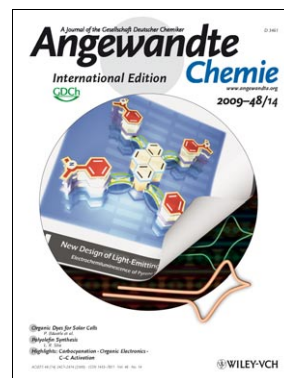
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## Cover Picture

**Jeong-Wook Oh, Yeon Ok Lee, Tae Hyun Kim, Kyoung Chul Ko, Jin Yong Lee,\* Hasuck Kim,\* and Jong Seung Kim\***

A **Powerful Luminophore** that comprises a centered pyrene acceptor with peripheral amine multidonors is described by J. S. Kim and co-workers in their Communication on page 2522 ff. The electrochemiluminescence (ECL) efficiency and radical stability of pyrene, a poor ECL luminophore, is markedly improved as the number of peripheral multidonor units is increased in a series of compounds. The ECL enhancement was rationalized by photophysical and electrochemical studies, and theoretical calculations.

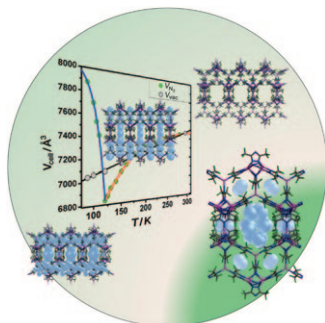
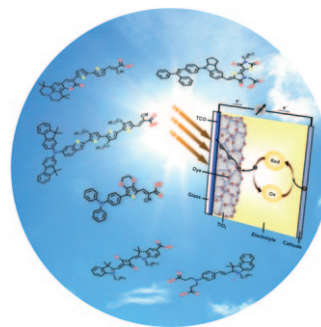


### **Polyolefin Synthesis**

Group-transfer reactions form the basis of a new concept in coordination polymerization, which allows the variable synthesis of polyolefin materials. In his Minireview on page 2464 ff., L. R. Sita explains how these processes can be controlled.

### **Dye-Sensitized Solar Cells**

P. Bäuerle and co-workers discuss in their Review on page 2474 ff. the principles for the design of metal-free organic dyes, which can be utilized as sensitizers in solar cells.



### **Metal–Organic Frameworks**

A fluorinated metal–organic framework undergoes breathing upon gas uptake, as described by M. A. Omary et al. in their Communication on page 2500 ff. Under N<sub>2</sub> atmosphere, the material exhibits negative thermal expansion; opposite behavior is detected under vacuum.