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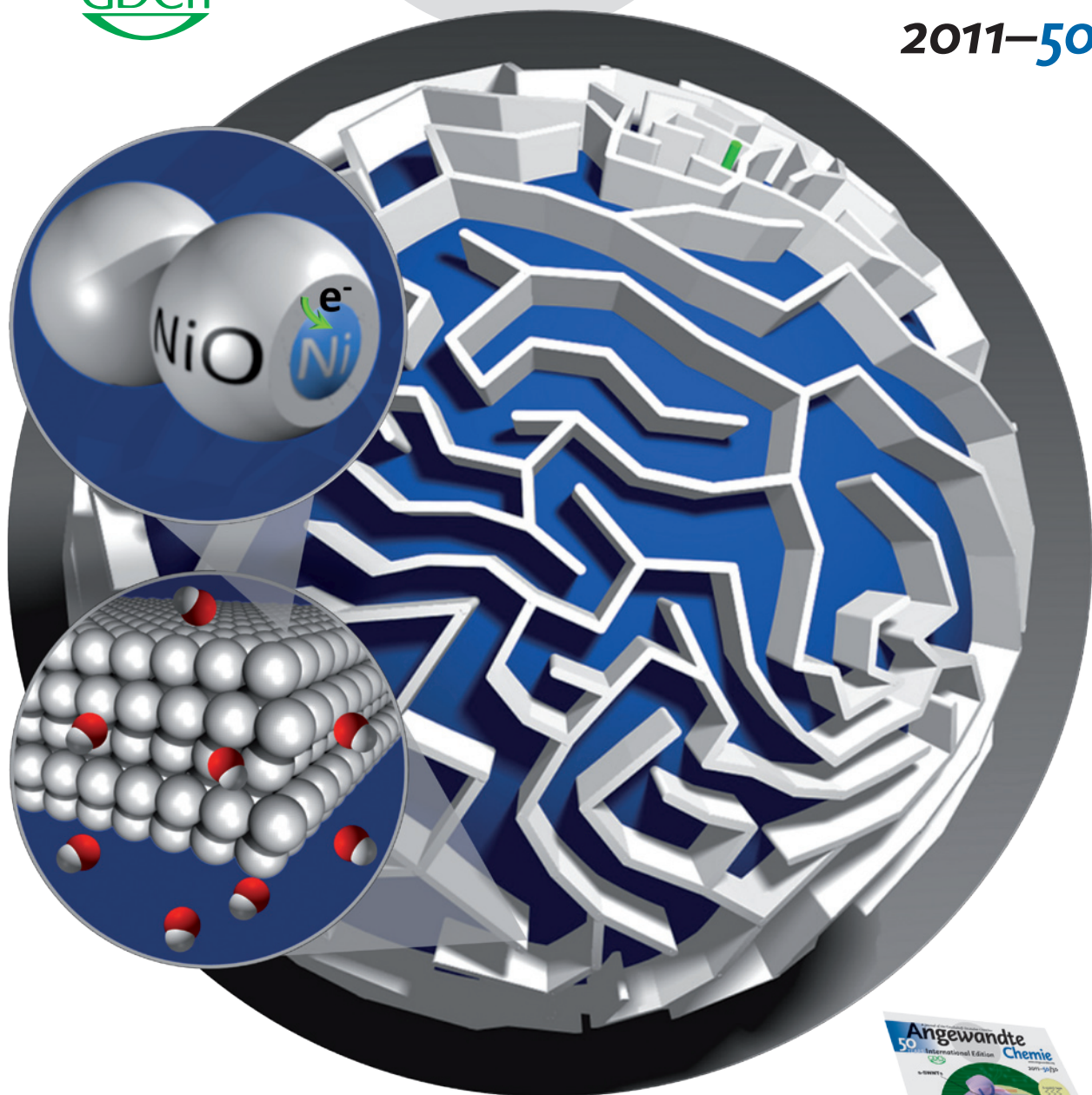
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Nobel Prize Lectures: Palladium-Catalyzed Cross-Coupling

E.-i. Negishi and A. Suzuki

Minireview: Brønsted Acid Catalysis

M. Rueping, B. J. Nachtsheim et al.

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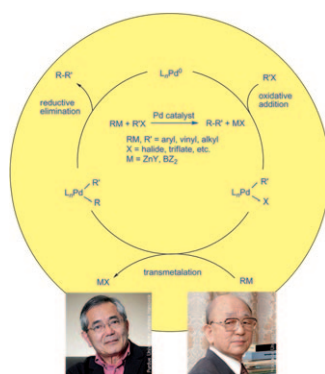
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Cover Picture

Qi Lu, Michael W. Lattanzi, Yunpeng Chen, Xiaoming Kou, Wanfeng Li, Xin Fan, Karl M. Unruh, Jingguang G. Chen, and John Q. Xiao*

High energy storage and delivery are observed for supercapacitor electrodes based on NiO/Ni nanocomposite materials. In their Communication on page 6847 ff., J. Q. Xiao and co-workers report a simple, cost-effective, and potentially scalable technique for fabricating support- and additive-free supercapacitor electrodes. The maximum performance of energy storage and delivery were simultaneously achieved by developing a slow-charging and fast-discharging procedure.

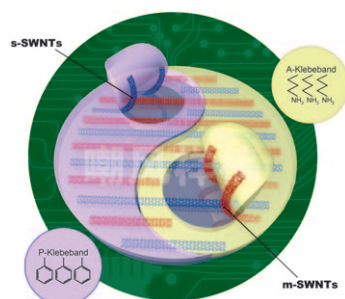


Nobel Reviews

The Nobel Prize in Chemistry 2010 was awarded for palladium-catalyzed cross-coupling in organic synthesis. Two of the Laureates, A. Suzuki and E.-i. Negishi, report on pages 6722 ff. and 6738 ff. the historical development and the current status of this research.

Contact Electrification

Despite its role in our daily lives, the mechanism of contact electrification is still poorly understood. B. A. Grzybowski and co-workers describe on page 6766 ff. that, contradictory to the common belief, water is not required for the contact charging of polymers.



Single-Walled Carbon Nanotubes

Semiconducting and metallic single-walled carbon nanotubes can be selectively separated by modified macroscopic “scotch tape” as described by J. Zhang and co-workers in their Communication on page 6819 ff.