

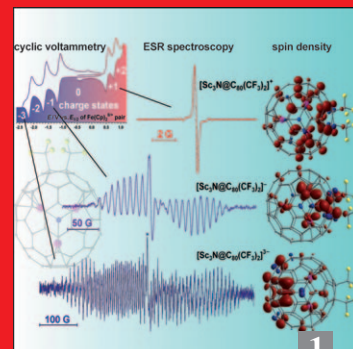
COMMUNICATIONS

Spectroelectrochemistry

1

A. A. Popov,* N. B. Shustova,
A. L. Svitova, M. A. Mackey,
C. E. Coumbe, J. P. Phillips,*
S. Stevenson,* S. H. Strauss,*
O. V. Boltalina,* L. Dunsch*

Redox-Tuning Endohedral Fullerene Spin States: From the Dication to the Trianion Radical of $\text{Sc}_3\text{N@C}_{80}(\text{CF}_3)_2$ in Five Reversible Single-Electron Steps



1

Heterogeneous Catalysis

P. Anbarasan, H. Neumann,
M. Beller*

**A Convenient Synthesis of Benzoni-
triles via Electrophilic Cyanation with
N-Cyanobenzimidazole**

Gold Catalysis

M. N. Hopkinson, A. Tessier,
A. Salisbury, G. T. Giuffredi,
L. E. Combettes, A. D. Gee,
V. Gouverneur*

**Gold-Catalyzed Intramolecular Oxida-
tive Cross-Coupling of Nonactivated
Arenes**



2

Diastereoselective Synthesis

T. Takeda,* T. Nishimura,
Y. Yatsumonji, K. Noguchi,
A. Tsubouchi

**Highly Stereoselective Preparation of
Tertiary Homoallylic Alcohols with
Multiple Stereogenic Centers**

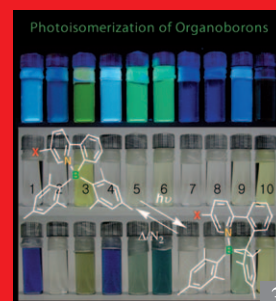
FULL PAPERS

Molecular Electronics

2

Y. Tanaka, T. Ishisaka, A. Inagaki,
T. Koike, C. Lapinte, M. Akita*

**Photochromic Organometallics with
a Dithienylethene (DTE) Bridge,
[Y-C≡C-DTE-C≡C-Y]
(Y = {MCP*(dppe)}): Photoswitchable
Molecular Wire (M = Fe) versus Dual
Photo- and Electrochromism (M = Ru)
(Cover picture)**



3

Organoboron Chemistry

3

H. Amarne, C. Baik, S. K. Murphy,
S. Wang*

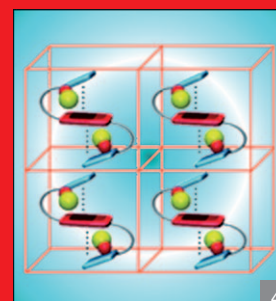
**Steric and Electronic Influence on
Photochromic Switching of N,C-
Chelate Four-Coordinate Organoboron
Compounds**

Vapochromic Crystals

4

E. Takahashi, H. Takaya,* T. Naota*

**Dynamic Vapochromic Behaviors of
Organic Crystals Based on the Open-
Close Motions of S-Shaped Donor-
Acceptor Folding Units**



4

Metallofullerenes

J. R. Pinzón, T. Zuo, L. Echegoyen*

**Synthesis and Electrochemical Studies
of Bingel-Hirsch Derivatives of
 $\text{M}_3\text{N@I}_h\text{-C}_{80}$ (M = Sc, Lu)**