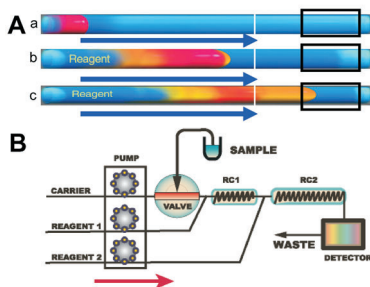


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2005, 70, 1737–1755

### From Beaker Chemistry to Programmable Microfluidics

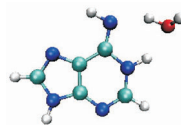
Jaromír Růžička



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2005, 70, 1756–1768

### Hydration Gibbs Energies of Nucleic Acid Bases Determined by Gibbs Energy Perturbation, Continuous and Hybrid Approaches

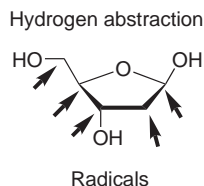
Jindřich Fanfrlík, Jaroslav Rejnek, Michal Hanus and Pavel Hobza



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2005, 70, 1769–1786

### 2-Deoxyribose Radicals in the Gas Phase and Aqueous Solution. Transient Intermediates of Hydrogen Atom Abstraction from 2-Deoxyribofuranose

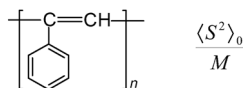
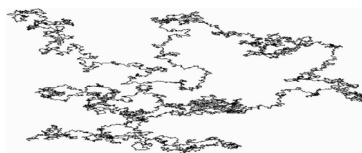
Luc A. Vannier, Chunxiang Yao and František Tureček



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2005, 70, 1787–1798

### Unperturbed Dimensions of Atactic Poly(phenylacetylene)

Dana Rědrová, Jan Sedláček, Majda Žigon and Jiří Vohlídal

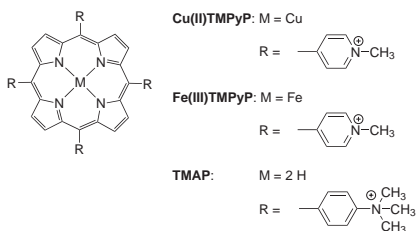


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2005, 70, 1799–1810

**The DNA–Porphyrin Interactions Studied by Vibrational and Electronic Circular Dichroism Spectroscopy**

Jakub Nový, Marie Urbanová and Karel Volka

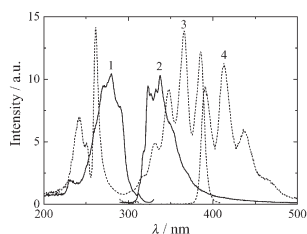


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2005, 70, 1811–1828

**Dynamics of Chain Exchange Between Self-Assembled Diblock Copolymer Micelles of Poly(ethylene oxide)-*block*-Polylactide Studied by Direct Nonradiative Excitation Energy Transfer**

Štěpán Popelka, Luďka Machová, František Rypáček, Milena Špírková, Miroslav Štěpánek, Pavel Matějčík and Karel Procházka

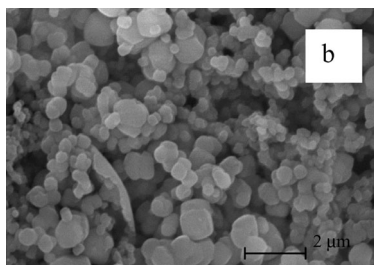


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2005, 70, 1829–1847

**Micro/Mesoporous Composites Based on Colloidal Zeolite Grown in Mesoporous Matrix**

Pavla Prokešová, Nikolay Petkov, Jiří Čejka, Svetlana Mintova and Thomas Bein

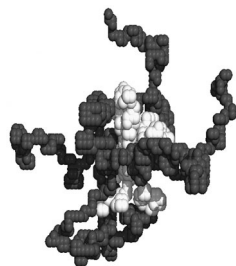


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2005, 70, 1848–1860

**Monte Carlo Study of Dilute Solutions of Heteroarm Star Copolymers in Solvents Differing in Thermodynamic Quality**

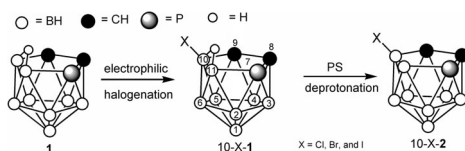
Jitka Havránková, Zuzana Limpouchová and Karel Procházka



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2005, 70, 1861–1872

**The Synthesis of 10-Halo-Substituted Derivatives of *nido*-7,8,9-PC<sub>2</sub>B<sub>8</sub>H<sub>11</sub> and [nido-7,8,9-PC<sub>2</sub>B<sub>8</sub>H<sub>10</sub>]<sup>−</sup> and New Linear Correlations Between NMR Parameters**

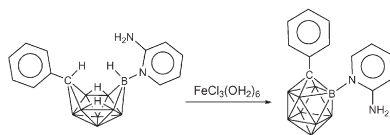


Josef Holub, Mario Bakardjiev and Bohumil Štíbr

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2005, 70, 1873–1890

**Polyhedral Monocarbaborane Chemistry. Functionality and Isomerism: Reactions of the [6-Ph-*nido*-6-CB<sub>9</sub>H<sub>11</sub>]<sup>−</sup> Anion with Aminopyridines NC<sub>5</sub>H<sub>4</sub>NH<sub>2</sub> to Yield Neutral *arachno* and *closo* Ten-Vertex Monocarbaborane Derivatives**

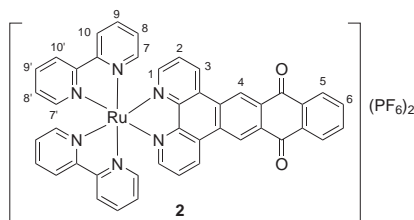


Neil J. Bullen and John D. Kennedy

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2005, 70, 1891–1908

**Luminescence of a New Ru(II) Polypyridine Complex Controlled by a Redox-Responsive Protonable Anthra[1,10]phenanthrolinequinone**

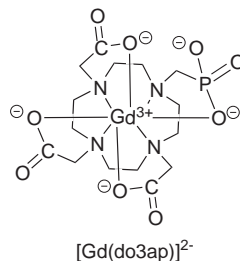


František Hartl, Sandrine Vernier and Peter Belser

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2005, 70, 1909–1942

**Thermodynamic and Kinetic Studies of Lanthanide(III) Complexes with H<sub>5</sub>do3ap (1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic-10-(methylphosphonic Acid)), a Monophosphonate Analogue of H<sub>4</sub>dota**



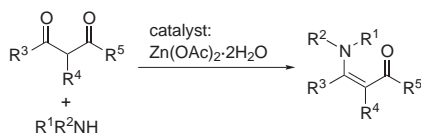
Petr Táborský, Přemysl Lubal, Josef Havel, Jan Kotek, Petr Hermann and Ivan Lukeš

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2005, 70, 1943–1952

**Efficient Synthesis of  $\beta$ -Aminoacrylates and  $\beta$ -Enaminones Catalyzed by  $\text{Zn}(\text{OAc})_2 \cdot 2\text{H}_2\text{O}$**

Ramandeep Kaur Vohra, Jean-Luc Renaud and Christian Bruneau

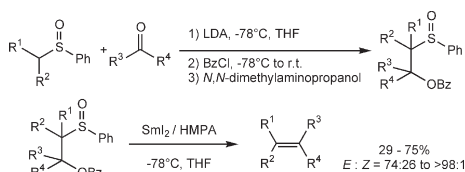


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2005, 70, 1953–1969

**Sulfoxide-Modified Julia-Lythgoe Olefination: Highly Stereoselective Di-, Tri-, and Tetrasubstituted Double Bond Formation**

Jiří Pospíšil, Tomáš Pospíšil and István E. Markó



*Collect. Czech. Chem. Commun.*

2005, 70, 1970–1985

**Self-Assembled Trigonal Prismatic Altitudinal Rotors with Triptycene Paddle Wheels**

Douglas C. Caskey, Bing Wang, Xiaolai Zheng and Josef Michl

