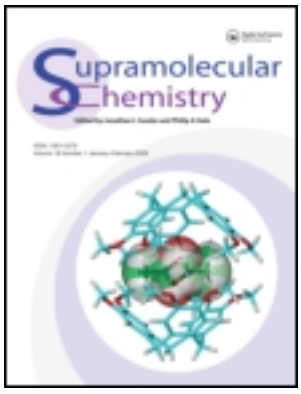

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Index Abstracts

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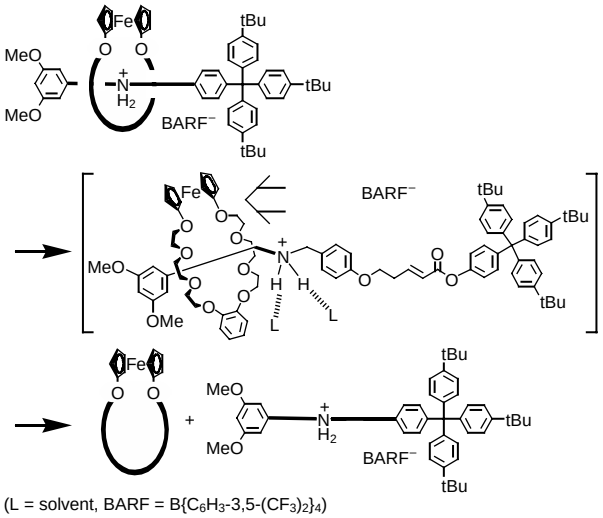
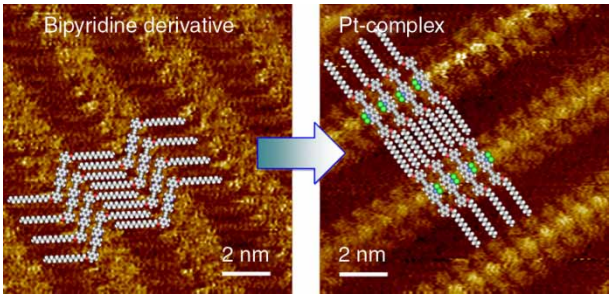
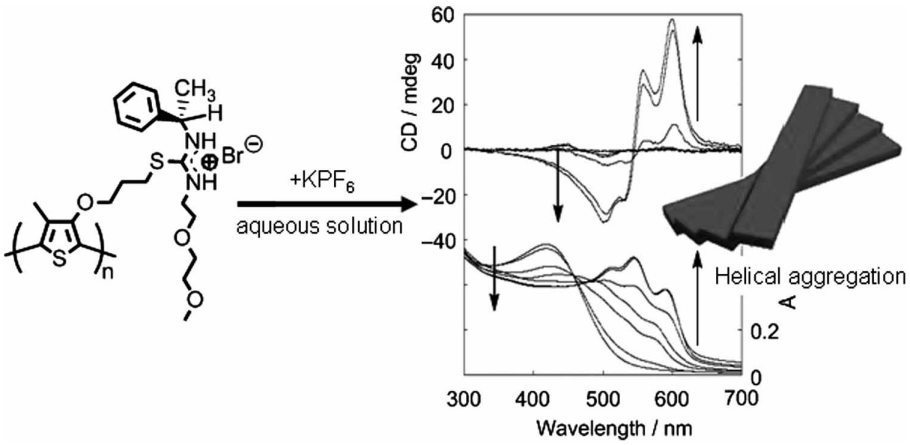
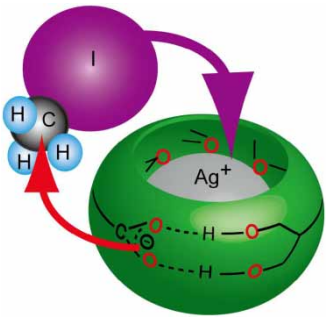
Index Abstracts

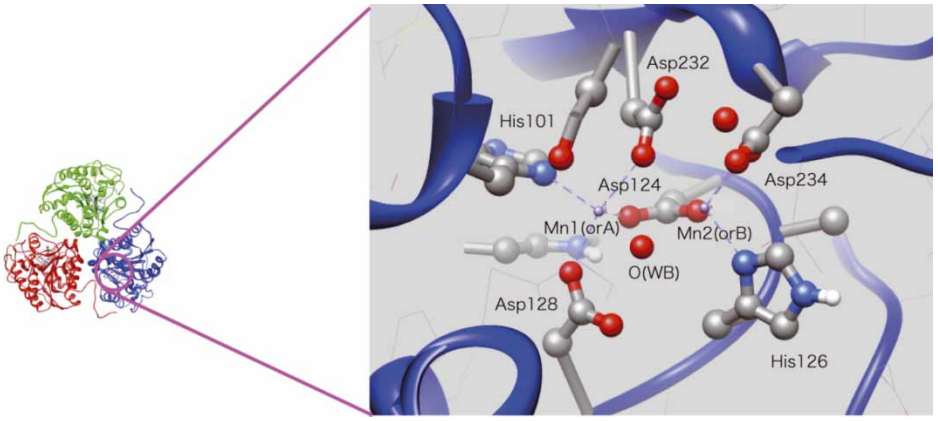


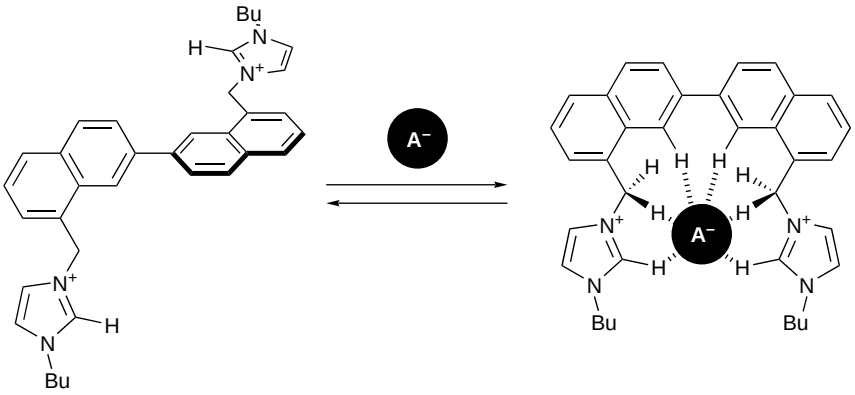
Rotaxane-like complex of an octaoxa[22]ferrocenophane with dialkylammonium undergoes dethreading reaction to form the component molecules in polar solvents.

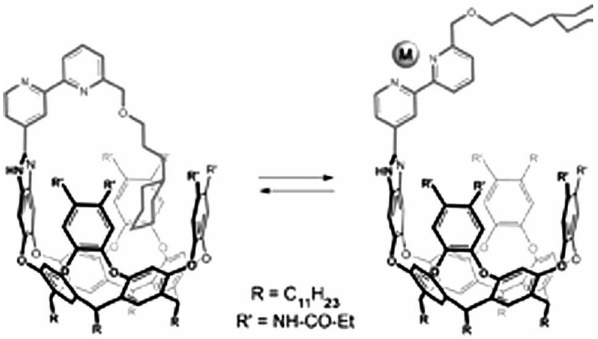


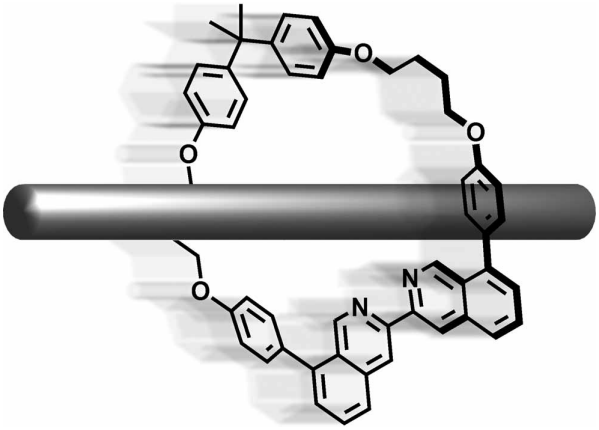


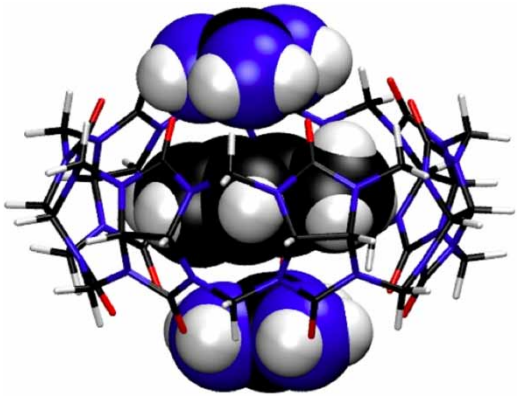


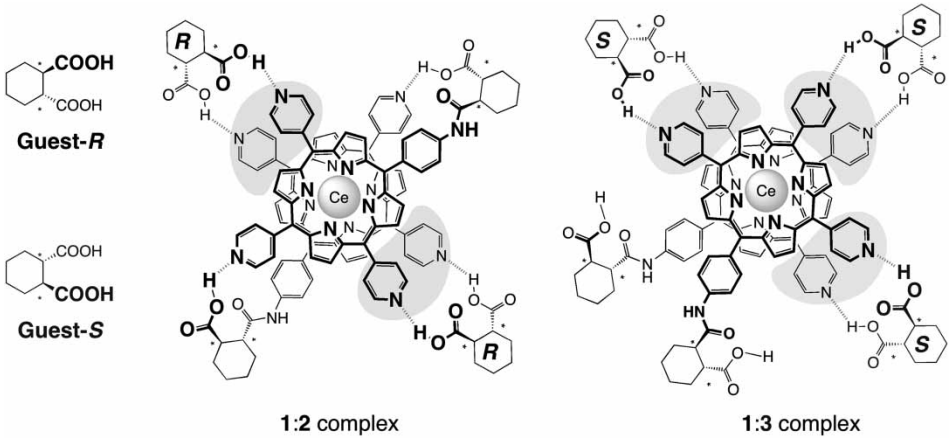


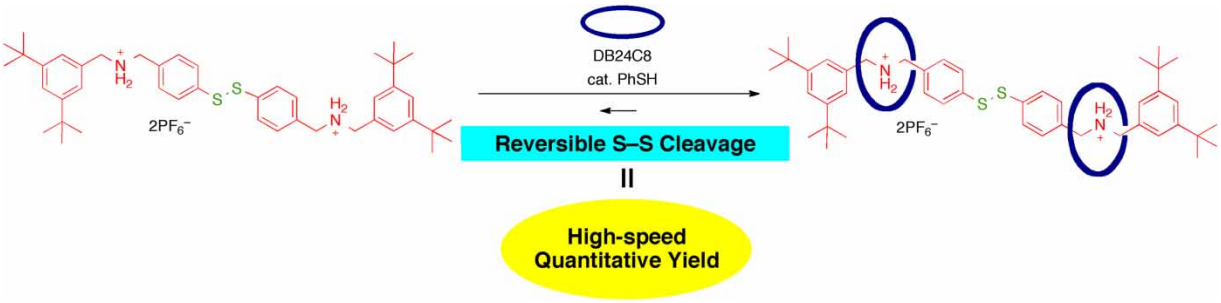


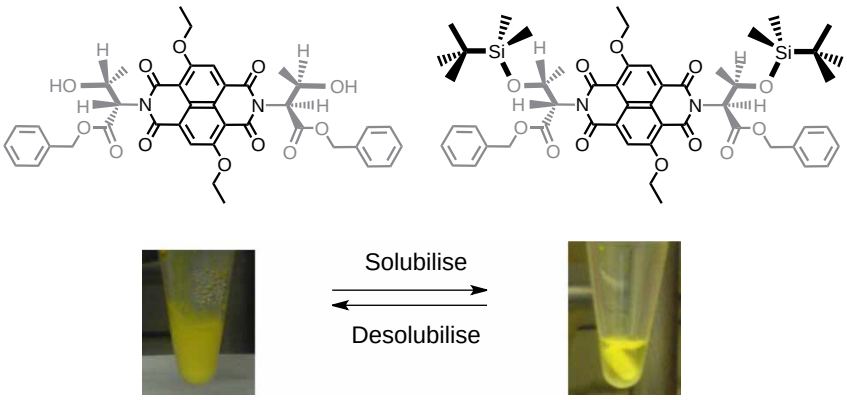


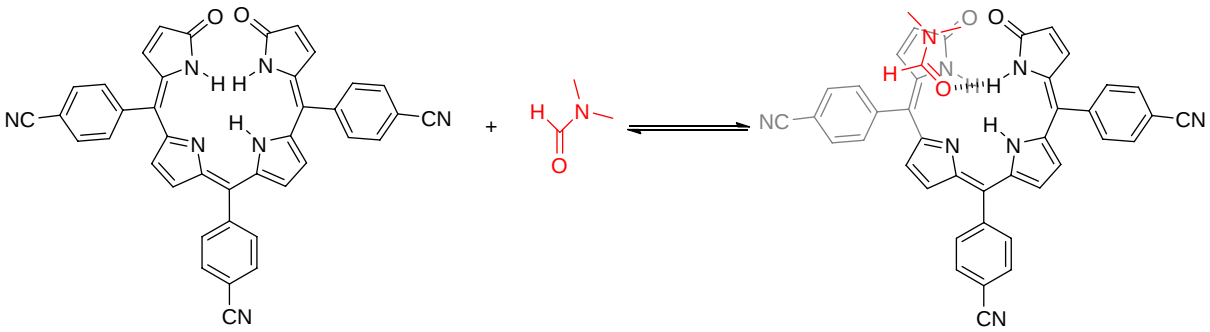




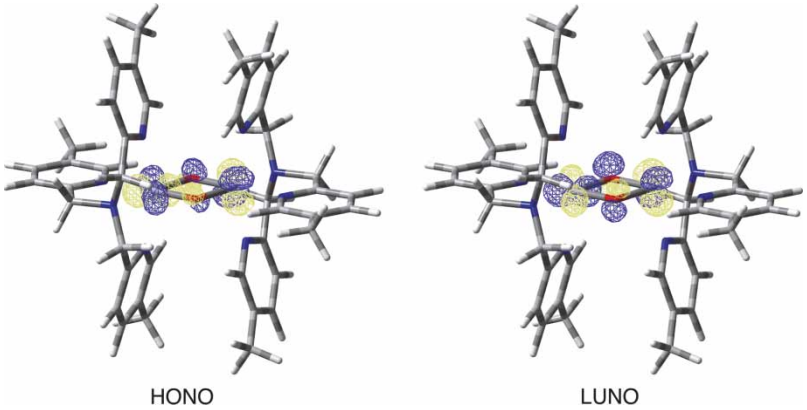


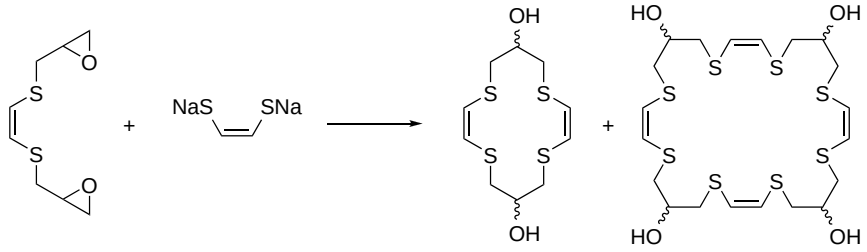






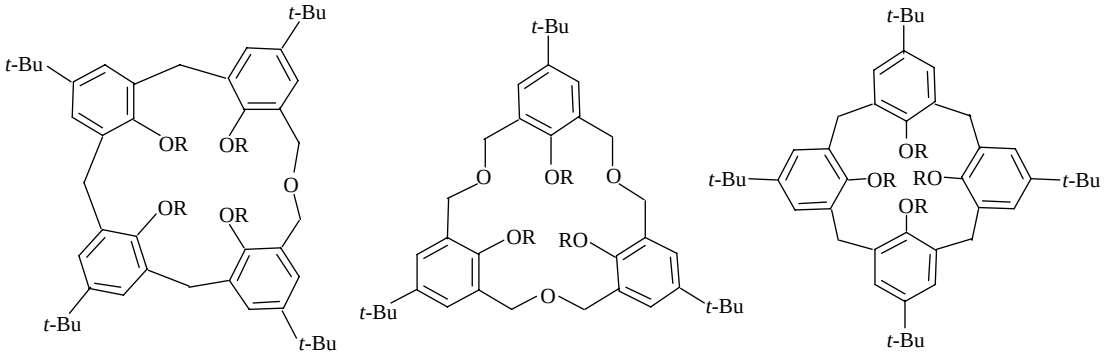
Triarylbilindiones absorbed red light in protic solvents and apolar solvents, while they absorbed far-red light in aprotic amides. The spectral changes shed light on the photochromism of phytochromes.





Toshio Shimizu, Junryo Kuwahara, Satoru Komatsuzaki and Kazunori Hirabayashi

Synthesis and structures of partially unsaturated thia-crown ethers with hydroxyl groups



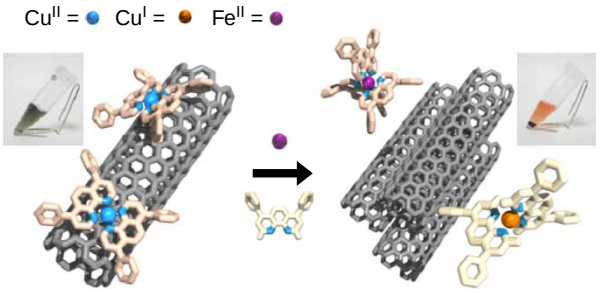
1 **2** **3**

a R = H **b** R = CH_2CONEt_2

The binding properties of **1b**, **2b** and **3b** towards lanthanide cations were assessed by stability constant measurements in methanol and also by extraction, proton NMR and microcalorimetric studies.

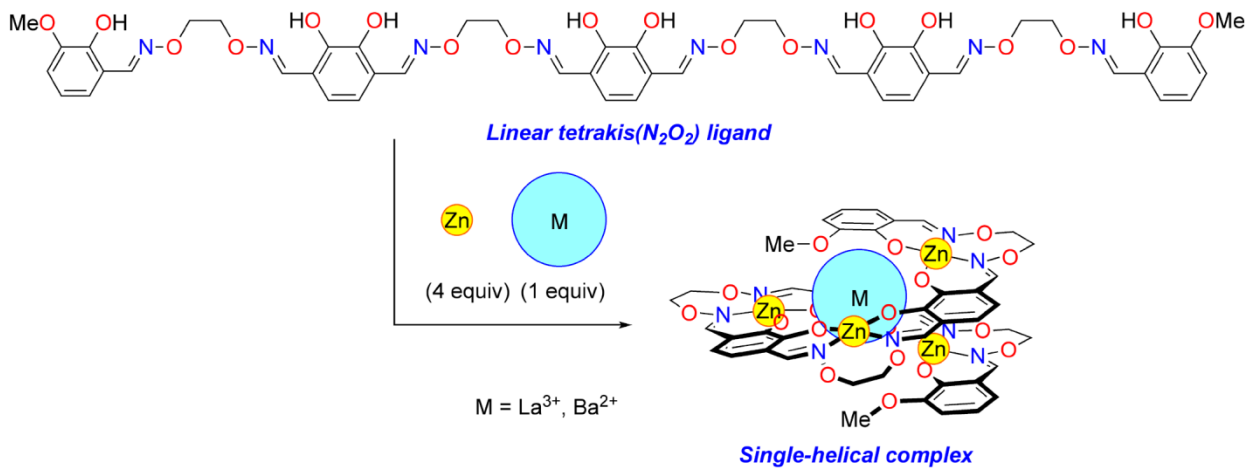
Paula M. Marcos, José R. Ascenso, Manuel A.P. Segurado, Peter J. Cragg, Sylvia Michel, Véronique Hubscher-Bruder and Françoise Arnaud-Neu

Lanthanide cation binding properties of homooxacalixarene diethylamide derivatives



Kazuyuki Nobusawa, Atsushi Ikeda and Jun-ichi Kikuchi

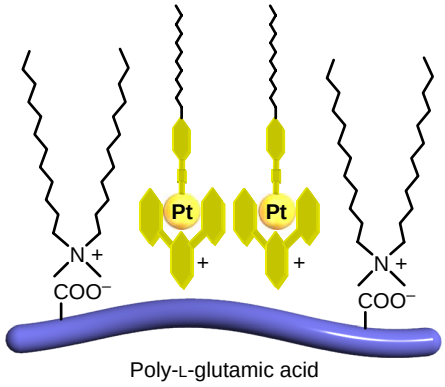
Self-assembly control of water-solubilised single-walled carbon nanotubes by combination of reduction and ligand exchange reactions of transition metal complexes



Shigehisa Akine, Takashi Matsumoto, Shiho Sairenji and Tatsuya Nabeshima

Synthesis of acyclic tetrakis- and pentakis(N_2O_2) ligands for single-helical heterometallic complexes with a greater number of winding turns

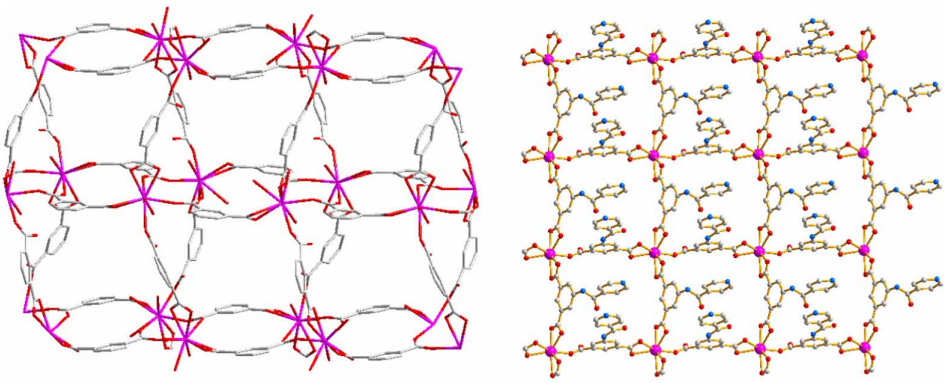
106–112



Toshiyuki Moriuchi, Masahiro Yamada, Kazuki Yoshii, Satoshi D. Ohmura and Toshikazu Hirao

Emission properties of platinum(II) terpyridyl complexes with hydrophobic poly-L-glutamic acid

113–116



Six new heterometallic coordination polymers have been synthesised by reactions of a pyridyl- and carboxylate-containing ligand 5-(isonicotinamido)phthalic acid with Cu(II)/Co(II) and Ln(III) salts. Complexes **1**–**3** display twofold interpenetrated 3D structure, while **4**–**6** display non-interpenetrated 3D network. The luminescent and magnetic properties of the complexes are investigated.

Tris-phenylurea-substituted calix[3]amides (**3a**, **3b**) and tris-phenylthiourea-substituted calix[3]-amides (**4a**, **4b**) were synthesised by the reaction of amine with isocyanates and thioisocyanate, respectively. Single crystal X-ray analysis revealed that the cyclic trimers adopt a *syn* conformation with all the urea groups in the same direction. The abilities of these compounds to form complexes with anions were measured using ^{1}H NMR titrations in DMF-d_7, DMSO or $CDCl_3$. Each receptor bound the halogen anions in a 1:1 stoichiometry and exclusively through H-bond interactions. The anion selectivity was in the order $F^- > Cl^- \gg Br^- > I^-$. DFT calculations revealed that the halogen anions were anchored in the centre of the six N—H hydrogen atoms through H···F interactions and formed a twisted structure.