A Journal of the Gesellschaft Deutscher Chemiker

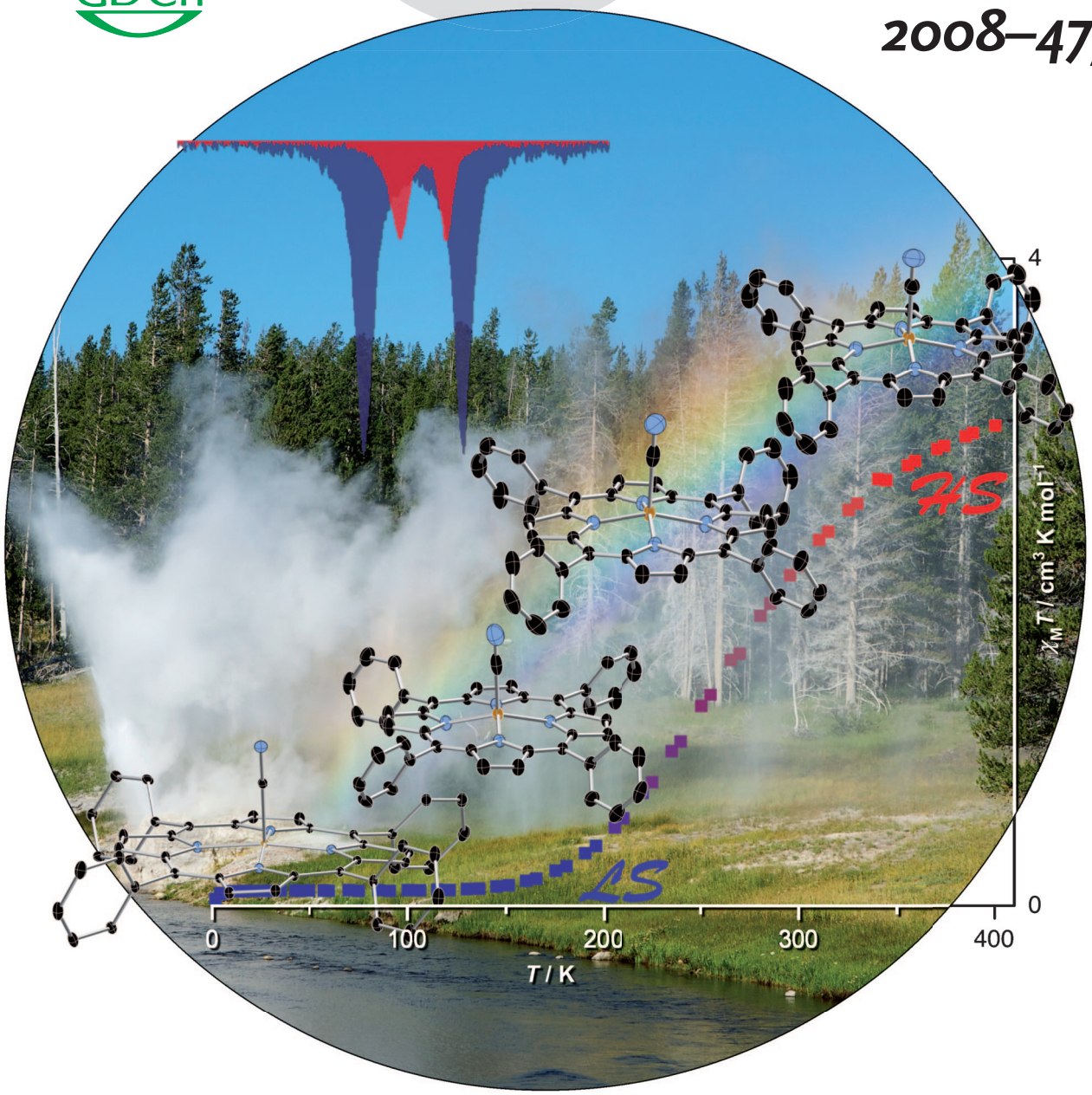
D 3461

Angewandte Chemie

International Edition

www.angewandte.org

2008–47/52



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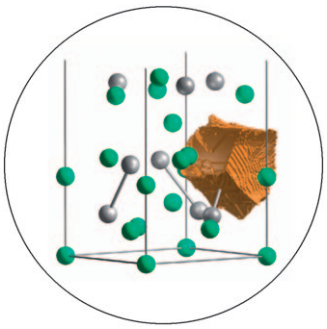
ACIEFS 47 (52) 9999–10304 (2008) · ISSN 1433–7851 · Vol. 47 · No. 52

WILEY-VCH

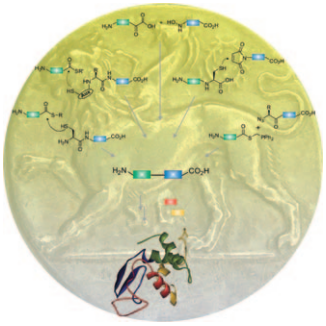
Cover Picture

Jianfeng Li, Richard L. Lord, Bruce C. Noll, Mu-Hyun Baik, Charles E. Schulz, and W. Robert Scheidt*

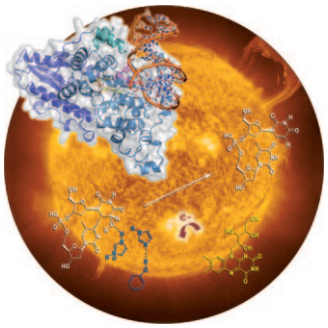
Low-spin to high-spin transition is observed for an iron(II) porphyrinate complex with an axial cyanide ligand, as reported by W. R. Scheidt and co-workers in their Communication on page 10144 ff. As demonstrated by temperature-dependent magnetic measurements, Mössbauer spectroscopy, and X-ray crystallographic analysis, coordination of a single axial cyanide ligand does not generate a sufficiently strong ligand field to ensure a low-spin complex under all conditions.



Caution on Chemical Concepts
M. Jansen and U. Wedig warn in their Essay on page 10026 ff. that combining results from quantum chemical calculations and conceptual quantities is not always straightforward without the strict observance of the definitions of these variables.



Protein Synthesis
Modern chemical biology offers numerous chemoselective ligation and modification techniques for the linking of synthetic peptides and proteins to large biomolecules. In their Review on page 10030 ff., C. Hackenberger and D. Schwarzer discuss new developments in this area as well as the advantages and disadvantages of each method.



DNA Damage and Repair
Crystal structures of a (6-4) photolyase in complex with DNA containing the (6-4) lesion before and after repair in situ have been determined. In their Communication on page 10076 ff., T. Carell et al. also describe the mechanistic implications.