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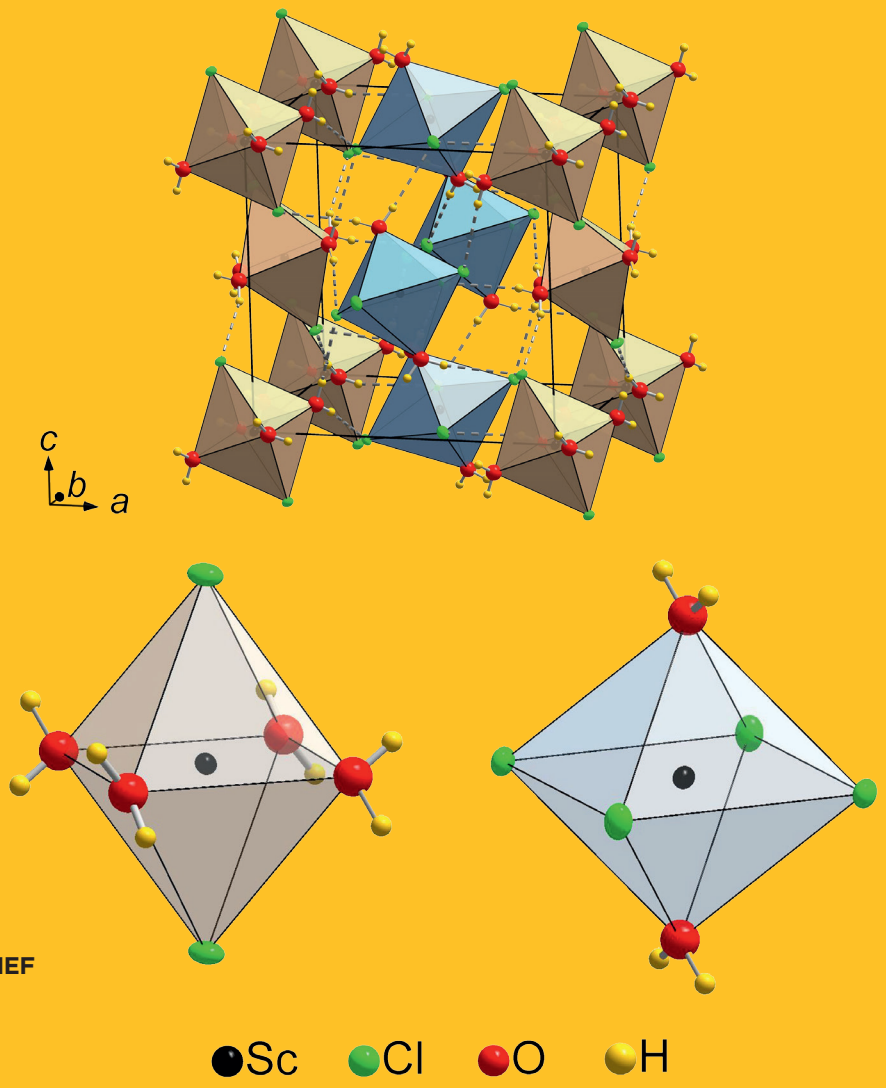

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COVER ILLUSTRATION FRONT COVER: The scandium chloride hydrates $ScCl_3 \cdot 3\ H_2O$ (cover) and $Sc_2Cl_4(OH)_2 \cdot 12\ H_2O$ have been synthesised and structurally characterised by Thomas Bräuniger, Philipp Bielec, Otto E. O. Zeman, Igor L. Moudrakovski, Constantin Hoch, and Wolfgang Schnick (pp. 217–226, this issue). The crystal structure of $ScCl_3 \cdot 3\ H_2O$ is reported here for the first time. In addition to single-crystal X-ray diffraction, solid-state ^{45}Sc NMR spectroscopy and DFT calculations were used for further characterization. From the ^{45}Sc NMR measurements under static and MAS conditions, both chemical shift and quadrupolar coupling parameters could be determined. DFT calculations for the static structure of $ScCl_3 \cdot 3\ H_2O$ consistently overestimate the quadrupolar coupling constants, indicating the possible presence of crystal water dynamics on the NMR time scale.

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Contents

Thi Thoi Bui, Van Loc Tran, Dai Quang Ngo, Van Chien Tran, Van Sung Tran and Thi Phuong Thao Tran
Synthesis and evaluation of *α*-glucosidase inhibitory activity of sulfonylurea derivatives —— 163

Chun Yang, Lili Song, Zhong Miao, Lingyun Jiang, Ting Li, Xiaoyan Zhi, Xiaojuan Hao and Hui Cao
Discovery of novel obovatol-based phenazine analogs as potential antifungal agents: synthesis and biological evaluation *in vitro* —— 173

Bogumiła Huras, Jerzy Zakrzewski, Krzysztof Żelechowski, Anna Kiełczewska, Maria Krawczyk, Jarosław Hupko and Katarzyna Jaszczuk
Fluorine analogs of dicamba and tricamba herbicides; synthesis and their pesticidal activity —— 181

Muhammad Said, Sadia Rehman, Muhammad Ikram, Hizbullah Khan and Carola Schulzke
Synthesis and crystal structure analyses of tri-substituted guanidine-based copper(II) complexes —— 193

Nabeel A. Abdul-Ridha, Afraah D. Salmaan, Rita Sabah, Bahjat Saeed and Najim A. Al-Masoudi
Synthesis, cytotoxicity and *in silico* study of some novel benzocoumarin-chalcone-bearing aryl ester derivatives and benzocoumarin-derived arylamide analogs —— 201

Idelle Nono Kamga, Augustin Nkwento Nana, Bridget Ndoye Ndosiri, Frédéric Capet, Michel Foulon and Justin Nenwa
The guanidinium *t*-diaqua-bis(oxalato)chromate(III) dihydrate complex: synthesis, crystal structure, EPR spectroscopy and magnetic properties —— 211

Thomas Bräuniger, Philipp Bielec, Otto E. O. Zeman, Igor L. Moudrakovski, Constantin Hoch and Wolfgang Schnick
Synthesis of the scandium chloride hydrates $ScCl_3 \cdot 3H_2O$ and $Sc_2Cl_4(OH)_2 \cdot 12H_2O$ and their characterisation by X-ray diffraction, ^{45}Sc NMR spectroscopy and DFT calculations —— 217

Diana Belotti, Florian Kampert, Mareike C. Jahnke and F. Ekkehardt Hahn
Oxidative addition of a 8-bromotheobromine derivative to d^{10} metals —— 227

Shan-Bao Qiao
A 3D 2-fold interpenetrating Cu(II) coordination polymer based on 4,4′-oxybis(benzoic acid) and 1,3-bis(2-methyl-imidazol-1-yl) benzene exhibiting photocatalytic properties —— 237

Bohdana Belan, Tamara J. Bednarchuk, Vasyl Kinzhybalo, Mariya Dzevenko, Svitlana Pukas and Roman Gladyshevskii
Crystal structure of the new silicide $LaNi_{11.8-11.4}Si_{1.2-1.6}$ —— 243