

Graphical Synopsis

Inorganic Crystal Structures

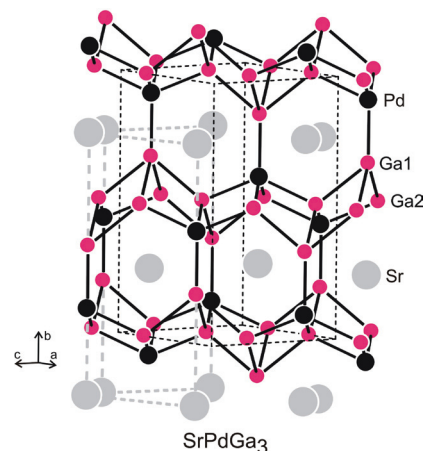
Stefan Seidel, Rolf-Dieter Hoffmann
and Rainer Pöttgen

**SrPdGa₃ – An orthorhombic
superstructure of the ThCr₂Si₂ type**

DOI 10.1515/zkri-2014-1742

Z. Kristallogr. 2014; 229(6): 421–426

Synopsis: SrPdGa₃ is a new ternary ordering variant of the aristotype BaAl₄ / ThCr₂Si₂. The structural relation with ThCr₂Si₂ and the closely related silicide BaNi₂Si₂ is discussed on the basis of a group-subgroup relation.

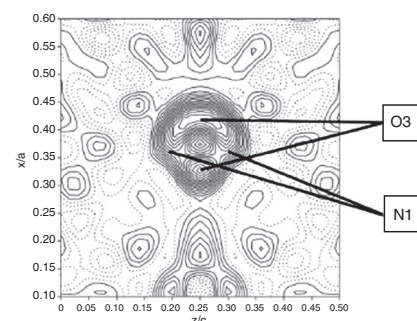


Alexander Schmidt, Hans Boysen,
Anatoliy Senyshyn and Martin Lerch
**New findings on N-mayenite and
a new kind of anion substituted
mayenite: Ca₁₂Al₁₄O₃₂(NO₂)₂**

DOI 10.1515/zkri-2013-1720

Z. Kristallogr. 2014; 229(6): 427–434

Synopsis: In this study we present two new anion-substituted mayenite-type phases: NO₂-mayenite and N-mayenite containing hydrazide ions. The new phases were investigated by means of neutron powder diffraction.



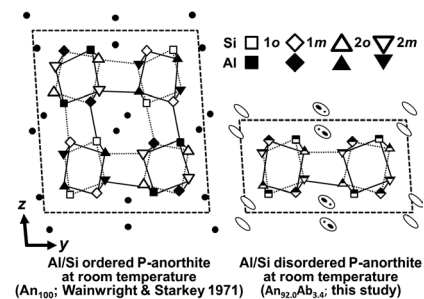
Takuya Echigo, Mihoko Hoshino,
Mitsuyoshi Kimata, Masahiro
Shimizu, Tomoaki Matsui and
Norimasa Nishida

**Single crystal X-ray and electron
microprobe study of
Al/Si-disordered anorthite with low
content of albite**

DOI 10.1515/zkri-2013-1713

Z. Kristallogr. 2014; 229(6): 435–449

Synopsis: The first natural crystal of Al/Si disordered anorthite (An_{92.0}Ab_{3.4}) was studied by single-crystal XRD and EMPA-WDS. Analytical results suggest that this Al/Si disordered anorthite is a metastable phase and the observed chemical non-stoichiometry may stabilize its metastable structure.



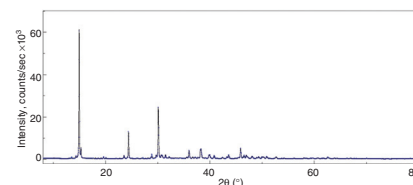
Soumen Ghosh, Abir Bhattacharya,
Paramita Chatterjee and Alok Kumar
Mukherjee

**Structural and microstructural
characterization of seven human
kidney stones using FTIR
spectroscopy, SEM, thermal study
and X-ray Rietveld analysis**

DOI 10.1515/zkri-2014-1725

Z. Kristallogr. 2014; 229(6): 451–458

Synopsis: Structural and microstructural characterization of seven human kidney stones has been reported. Quantitative phase analysis using the Rietveld method indicates that the major constituent is whewellite (in five stones) and anhydrous uric acid (in two stones) with minor amounts of weddellite and ammonium acid urate.

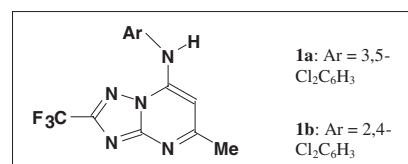


Organic and Metalorganic Crystal Structures

Núbia Boechat, Luiz C.S. Pinheiro,
Angelo C. Pinto, Thiago S. Silva,
James L. Wardell and Solange M.S.V.
Wardell

**Crystal structures of two anhydrous
and one hydrated 7-(arylamino)-5-
methyl-2-(trifluoromethyl)-[1,2,4]-
triazolo-[1,5-a]pyrimidine derivatives**

Synopsis: While in both 7-(arylamino)-5- H_3Cl -2- F_3C -[1,2,4]-triazolo-[1,5-a]pyrimidines (**1a**: aryl = 3,5-dichlorophenyl; **1b**: aryl = 2,4-dichlorophenyl), the strongest intermolecular interactions are N—H...N hydrogen bonds, different acceptor atoms are involved.



DOI 10.1515/zkri-2014-1740

Z. Kristallogr. 2014; 229(6): 459–471

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