



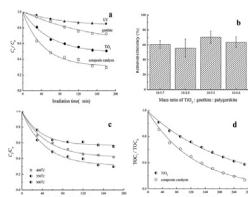
Solid State Sciences Vol 49, 2015

Graphical abstracts

Catalytic degradation of gaseous benzene by using TiO₂/goethite immobilized on palygorskite: Preparation, characterization and mechanism

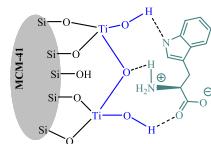
pp. 1–9

Jianzhong Ma, Chengzhu Zhu*, Jun Lu, Haibo Liu, Li Huang, Tianhu Chen**, Dong Chen

**Synthesis and stability of L-tryptophan adsorbed on Ti/MCM-41 as a catalyst for the regioselective aminolysis of styrene oxide**

pp. 10–17

Kioumars Aghapoor*, Mostafa M. Amini, Khosrow Jadidi, Farshid Mohsenzadeh, Hossein Reza Darabi, Hani Sayahi, Mohammad Reza Jalali

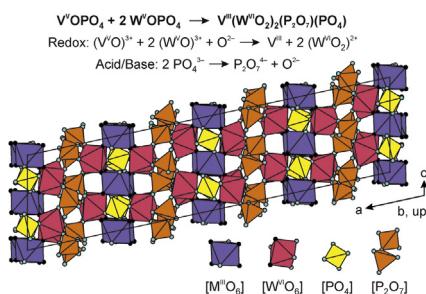


L-trypt adsorbed Ti/MCM-41

Synthesis and crystal structure of mixed metal(III) tungstenyl(VI) ortho-pyrophosphates

pp. 18–28

S.C. Roy, B. Raguž, W. Assenmacher, R. Glaum*

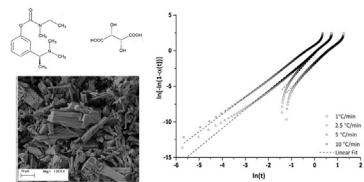


$\text{V}^{\text{IV}}(\text{W}^{\text{VI}}\text{O}_2)_2(\text{P}_2\text{O}_7)(\text{PO}_4)$ is the first anhydrous phosphate containing a tri- and a hexavalent transition metal. Its formal composition $(\text{V}_{1/3}\text{W}_{2/3})\text{OPO}_4$ relates it to the quasi-binary system $\text{V}^{\text{IV}}\text{OPO}_4\text{-W}^{\text{VI}}\text{OPO}_4$. By internal redox and Lux-Flood acid-base reaction obviously a stabilization with respect to the crystal structures of the end members of the binary system is achieved. Vanadium(III) can be substituted by a wide range of trivalent cations (M^{3+} : Sc, Cr, Fe, Mo, Ru, Rh, In, Ir).

Rivastigmine hydrogen tartrate polymorphs: Solid-state characterisation of transition and polymorphic conversion via milling

pp. 29–36

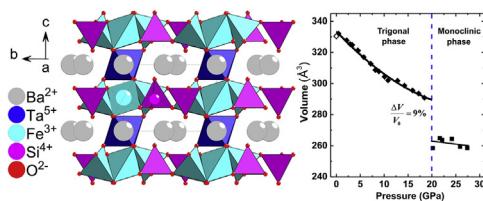
Maria Inês Amaro*, Alice Simon, Lúcio Mendes Cabral, Valéria Pereira de Sousa, Anne Marie Healy



Structural transitions under high-pressure in a langasite-type multiferroic $\text{Ba}_3\text{TaFe}_3\text{Si}_2\text{O}_{14}$

pp. 37–42

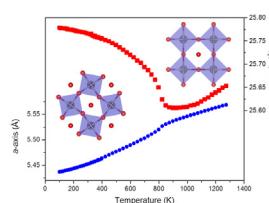
P.G. Naumov*, V. Ksenofontov, I.S. Lyubutin, S.A. Medvedev, O.I. Barkalov, T. Palasyuk, E. Magos-Palasyuk, C. Felser



Anisotropic thermal expansion in Sr_2RhO_4 – A variable temperature Synchrotron X-ray diffraction study

pp. 43–46

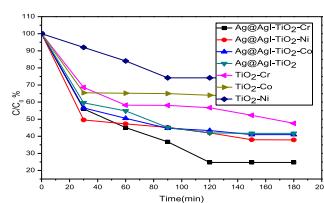
Ben Ranjbar, Brendan J. Kennedy*



Enhancement of photocatalytic performance of plasmon-assisted metallic ion doped titania

pp. 47–53

Jimin Fan, Zhihuan Zhao**, Chao Gong, Bin Cheng, Yongqiang Xue, Shu Yin*



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