



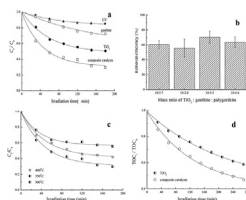
Solid State Sciences Vol 49, 2015

Graphical abstracts

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

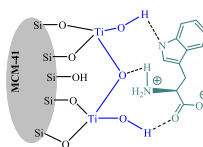
pp. 1–9

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

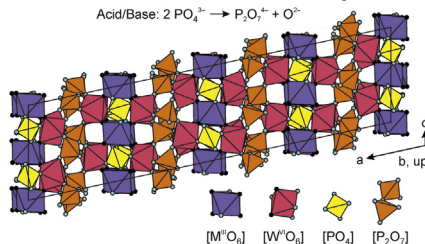
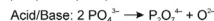
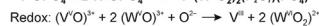
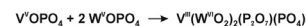


L-tryp adsorbed Ti/MCM-41

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

pp. 18–28

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

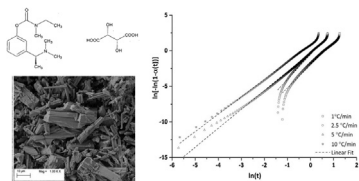


$V^{III}(W^{VI}O_2)_2(P_2O_7)(PO_4)$ is the first anhydrous phosphate containing a tri- and a hexavalent transition metal. Its formal composition $(V_{1/3}W_{2/3})OPO_4$ relates it to the quasi-binary system $V^{III}OPO_4$ – $W^{VI}OPO_4$. By internal redox and Lux–Flood acid–base reaction obviously 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



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