

List of publications of Dr. Nurbosyn U. Zhanpeisov

1. N.U. Zhanpeisov, M. Anpo. Hydrogen bonding versus coordination of adsorbate molecules on Ti-silicalites: A density functional theory study. *J. Am. Chem. Soc.* 126 (2004) 9439-9444.
2. I.L. Zilberberg, N.U. Zhanpeisov. Preface. *Res. Chem. Intermed.* 30 (2004) 1-4.
3. N.U. Zhanpeisov, K. Tsujimaru, M. Anpo. Intrinsic band gap in semiconductor oxides and Ti-silicalite: ab initio and DFT study. *Res. Chem. Intermed.* 30 (2004) 121-132.
4. N.U. Zhanpeisov. A density functional theory study of the oxidation of methanol to formaldehyde over vanadia supported on silica, titania and zirconia. *Res. Chem. Intermed.* 30 (2004) 133-142.
5. N.U. Zhanpeisov, K. Mizuno, M. Anpo, J. Leszczynski. C₁-C₂ bond cleavage in vinylidenecyclopropanes: Theoretical density functional theory study. *Int. J. Quantum Chem.* 96 (2004) 343-348.
6. N.U. Zhanpeisov, Y. Kanazawa, H. Yamashita, M. Anpo. Intrinsic band gap shift in Ti silicalites modified by V ion implantation: ab initio and density functional theory study. *Int. J. Quantum Chem.* 96 (2004) 349-354.
7. N.U. Zhanpeisov, W.S. Ju, K. Iino, M. Matsuoka, M. Anpo. Local structure of highly dispersed lead species incorporated within zeolite: experimental and theoretical studies. *Res. Chem. Intermediat.* 29 (2003) 407-416.
8. N.U. Zhanpeisov, A. Miyamoto. Interactions of water and methanol with a mixture of copper and zinc metals: a theoretical ab initio study. *Res. Chem. Intermediat.* 29 (2003) 417-428.
9. N.U. Zhanpeisov, G. Martra, W.S. Ju, M. Matsuoka, S. Coluccia, M. Anpo. Interaction of N₂O with Ag⁺ ion-exchanged zeolites: an FT-IR spectroscopy and quantum chemical ab initio and DFT studies. *J. Mol. Catal. A: Chemical* 201 (2003) 237-246.
10. N.U. Zhanpeisov, W.S. Ju, M. Matsuoka, M. Anpo. Quantum chemical calculations on the structure and adsorption properties of NO and N₂O on Ag⁺ and Cu⁺ ion-exchanged zeolites. *Struct. Chem.* 14 (2003) 247-255.
11. M. Anpo, S. Higashimoto, M. Matsuoka, N. Zhanpeisov, Y. Shioya, S. Dzwigaj, M. Che. Corrigendum to "The effect of the framework structure on the chemical properties of the vanadium oxide species incorporated within zeolites." *Catal. Today* 86 (2003) 287-288.
12. M. Anpo, S. Higashimoto, M. Matsuoka, N. Zhanpeisov, Y. Shioya, S. Dzwigaj, M. Che. The effect of the framework structure on the chemical properties of the vanadium oxide species incorporated within zeolites. *Catal. Today* 78 (2003) 211-217.
13. N.U. Zhanpeisov, A. Sugimoto, K. Mizuno, M. Anpo, J. Leszczynski. Thermal instability of 5-(9-anthrylmethyl)-10-methyl-5,10-dihydrophenazine. A quantum chemical DFT study. *J. Mol. Struct. (Theochem)* 592 (2002) 149-153.
14. N.U. Zhanpeisov, W.S. Ju, M. Anpo. Local structure of highly dispersed lead containing zeolite. An ab initio and density functional theory study. *J. Mol. Struct. (Theochem)* 592 (2002) 155-160.

15. N.U. Zhanpeisov, M. Anpo. Combined cluster quantum chemical MINDO/3 and ab initio study on zinc phosphate structures. *Struct. Chem.* 12 (2001) 399-403.
16. N.U. Zhanpeisov, S. Higashimoto, M. Anpo. Selective catalytic reduction of nitric oxide with ammonia: A theoretical ab initio study. *Int. J. Quantum Chem.* 84 (2001) 677-685.
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