

Excerpt of papers with Gas Sorption Device SURFER
(ThermoFisher Scientific – POROTEC) 3-2016

1. Coenen, K., Gallucci, F., Cobden, P., van Dijk, E., Hensen, E., & van Sint Annaland, M. (2016). Chemisorption working capacity and kinetics of CO₂ and H₂O of hydrotalcite-based adsorbents for sorption-enhanced water-gas-shift applications. *Chemical Engineering Journal*, 293, 9-23.
2. Kasakov, S., Shi, H., Camaioni, D. M., Zhao, C., Baráth, E., Jentys, A., & Lercher, J. A. (2015). Reductive deconstruction of organosolv lignin catalyzed by zeolite supported nickel nanoparticles. *Green Chemistry*, 17(11), 5079-5090.
3. Agrafioti, E., Kalderis, D., & Diamadopoulos, E. (2014). Arsenic and chromium removal from water using biochars derived from rice husk, organic solid wastes and sewage sludge. *Journal of environmental management*, 133, 309-314.
4. Subbiah, V., van Zwol, P., Dimian, A. C., Gitis, V., & Rothenberg, G. (2014). Glycerol Esters from Real Waste Cooking Oil Using a Robust Solid Acid Catalyst. *Topics in Catalysis*, 57(17-20), 1545-1549.
5. Ansari, S. A., Mohapatra, P. K., Iqbal, M., Huskens, J., & Verboom, W. (2014). Two novel extraction chromatography resins containing multiple diglycolamide-functionalized ligands: Preparation, characterization and actinide uptake properties. *Journal of chromatography A*, 1334, 79-86.
6. Dulle, J., Thirunavukkarasu, K., Mittelmeijer-Hazeleger, M. C., Andreeva, D. V., Shiju, N. R., & Rothenberg, G. (2013). Efficient three-component coupling catalysed by mesoporous copper-aluminum based nanocomposites. *Green Chemistry*, 15(5), 1238-1243.
7. Kapnisti, M. G., Noli, F. G., Arvanitidis, J., & Hatzidimitriou, A. G. (2016). Thermally modified molybdenum oxide as a potential sorbent for the removal of metal cations from aqueous solutions. *Journal of Radioanalytical and Nuclear Chemistry*, 307(1), 555-565.
8. Berger, E., Hahn, M. W., Przybilla, T., Winter, B., Spiecker, E., Jentys, A., & Lercher, J. A. (2016). Impact of solvents and surfactants on the self-assembly of nanostructured amine functionalized silica spheres for CO₂ capture. *Journal of Energy Chemistry*.
9. Dasgupta, K., Vijayalakshmi, R., & Anitha, M. (2016). Recovery of Nd (III) in coexistence with Fe (III) ions from aqueous phase using functionalized multiwalled carbon nanotubes: An environmental benign approach. *Journal of Environmental Chemical Engineering*.
10. Heviánková, S., Bestová, I., & Kyncl, M. (2014). The application of wood ash as a reagent in acid mine drainage treatment. *Minerals Engineering*, 56, 109
11. Khalid, K., & Hanafiah, M. A. K. M. (2014, June). Kinetic and isotherm adsorption studies of methylene blue on sulfuric acid treated spent grated coconut (*Cocos nucifera*). In *Advanced Materials Research* (Vol. 970, pp. 192-197).
12. Abbaszadeh, S., Alwi, S. R. W., Webb, C., Ghasemi, N., & Muhamad, I. I. (2016). Treatment of lead-contaminated water using activated carbon adsorbent from locally available papaya peel biowaste. *Journal of Cleaner Production*, 118, 210-222.
13. Alhassan, F. H., Rashid, U., & Taufiq-Yap, Y. H. (2015). Biodiesel Synthesis Catalyzed by Transition Metal Oxides: Ferric-Manganese Doped Tungstate/Molybdena Nanoparticle Catalyst. *Journal of Oleo Science*, Vol. 64 (2015) No. 1 p. 91-99
14. Strassberger, Z., Ramos-Fernandez, E. V., Boonstra, A., Jorna, R., Tanase, S., & Rothenberg, G. (2013). Synthesis, characterization and testing of a new V₂O₅/Al₂O₃-MgO catalyst for butane dehydrogenation and limonene oxidation. *Dalton Transactions*, 42(15), 5546-5553.

15. Catoni, M., D'amico, M. E., Mittelmeijer-Hazeleger, M. C., Rothenberg, G., & Bonifacio, E. (2014). Micropore characteristics of organic matter pools in cemented and non-cemented podzolic horizons. *European Journal of Soil Science*, 65(5), 763-773.
16. Minović, T. Z., Gulicovski, J. J., Stoiljković, M. M., Jokić, B. M., Živković, L. S., Matović, B. Z., & Babić, B. M. (2015). Surface characterization of mesoporous carbon cryogel and its application in arsenic (III) adsorption from aqueous solutions. *Microporous and Mesoporous Materials*, 201, 271-276.
17. Dorogov, M. V., Dovzhenko, O. A., Gryzunova, N. N., Vikarchuk, A. A., & Romanov, A. E. (2015). New Functional Materials Based on Nano-and Micro-Objects with Developed Surface. *Acta Physica Polonica*, A., 128(4).
18. Prekajski, M., Zarubica, A., Babić, B., Jokić, B., Pantić, J., Luković, J., & Matović, B. (2016). Synthesis and characterization of Cr 3+ doped TiO₂ nanometric powders. *Ceramics International*, 42(1), 1862-1869.
19. Nimkar, A., Ramana, M. M. V., Betkar, R., Ranade, P., & Mundhe, B. (2016). CsOH/γ-Al₂O₃: a heterogeneous reusable basic catalyst for one-pot synthesis of 2-amino-4, 6-diaryl pyrimidines, *New J. Chem.*, 2016,40, 2541-2546.
20. Monnereau, L., Grandclaudon, C., Muller, T., & Bräse, S. (2015). Sulfur-based hyper cross-linked polymers. *RSC Advances*, 5(30), 23152-23159.
21. Arratibel, A., Astobiza, U., Tanaka, D. A. P., van Sint Annaland, M., & Gallucci, F. (2015). N₂, He and CO₂ diffusion mechanism through nanoporous YSZ/γ-Al₂O₃ layers and their use in a pore-filled membrane for hydrogen membrane reactors. *International Journal of Hydrogen Energy*. In Press 2016, online doi:10.1016/j.ijhydene.2015.11.152
22. Ameta, R. K., Singh, M., & Kale, R. K. (2013). Synthesis, characterization, EDX, thermal, antioxidant, antibacterial, topographical, and gas adsorption studies of supramolecular tetraammoniumplatinate. *Journal of Coordination Chemistry*, 66(4), 551-567.
23. Refaey, Y., Jansen, B., El-Shater, A. H., El-Haddad, A. A., & Kalbitz, K. (2015). Clay minerals of Pliocene deposits and their potential use for the purification of polluted wastewater in the Sohag area, Egypt. *Geoderma Regional*, 5, 215-225.