

Publications 2006

Synthesis of novel ruthenium nanoparticles stabilized by heavily fluorinated compounds

TRISTANY M., CHAUDRET B., DIEUDONNE P., GUARI Y., LECANTE P., MATSURA V., MORENO-MANAS M., PHILIPPOT K., PLEIXATS R.

Adv. Funct. Mater., 2006, **16**, pp. 2008-2015.

Experimental study of LO phonons and excitons in ZnO nanoparticles produced by room-temperature organometallic synthesis

DEMANGEOT F., PAILLARD V., CHASSAING P.M., PAGES C., KAHN M.L., MAISONNAT A., CHAUDRET B.

Appl. Phys. Lett., 2006, **88**, pp. 071921(1-3).

Novel insights into the mechanism of the ortho-para spin conversion of hydrogen pairs: implications for catalysis and interstellar water

LIMBACH H.-H., BUNTKOWSKY G., MATTHES J., GRUNDEMANN S., PERY T., WALASZEK B., CHAUDRET B.

ChemPhysChem, 2006, **7**, pp. 551 - 554.

Optical properties of zinc oxide nanoparticles and nanorods synthesized using an organometallic method

KAHN M.L., CARDINAL T., BOUSQUET B., MONGE M.A., JUBERA V., CHAUDRET B.

ChemPhysChem, 2006, **7**, pp. 2392-2397.

Selective growth of large chiral angle single-walled carbon nanotubes

PAILLET M., MEYER J.C., MICHEL T., JOURDAIN V., PONCHARAL P., SAUVAJOL J.-L., CORDENTE N., AMIENS C., CHAUDRET B., ROTH S., ZAHAB A.

Diam. Relat. Mat., 2006, **15** (4-8), pp. 1019 - 1022.

Synthesis, characterization and catalytic reactivity of ruthenium nanoparticles stabilized by chiral N-donor ligands

JANSAT S., PICURELLI D., PELZER K., PHILIPPOT K., GOMEZ M., MULLER G., LECANTE P., CHAUDRET B.

New J. Chem., 2006, **30**, pp. 115-122.

Organometallic approach for platinumium and palladium doping of tin and tin oxide nanoparticles : structural characterisation and gas sensor investigations

ERADES L., GRANDJEAN D., NAYRAL C., SOULANTICA K., CHAUDRET B., MENINI P., PARRET F., MAISONNAT A.

New J. Chem., 2006, **30**, pp. 1026-1035.

A simple and reproducible method for the synthesis of silica-supported rhodium nanoparticles and their investigation in the hydrogenation of aromatic compounds

MEVELLEC V., NOWICKI A., ROUCOUX A., DUJARDIN C., GRANGER P., PAYEN E., PHILIPPOT K.

New J. Chem., 2006, **30**, pp. 1214-1219.

Mechanism of nuclear spin initiated para-H₂ ortho-H₂ conversion

BUNTKOWSKY G., WALASZEK B., ADAMCZYK A., XU Y., LIMBACH H.-H., CHAUDRET B.

Phys. Chem. Chem. Phys., 2006, **8**, pp. 1929 - 1935.

Gold nanoparticles from oxonium precursor: synthesis in the presence of primary amine and characterization

UZNANSKI P., AMIENS C., CHAUDRET B., BRYCZEWSKA E.

Pol. J. Chem., 2006, **80**, pp. 1845 - 1855.

High-temperature synthesis of gold nanoparticles - towards organized gold arrays

UZNANSKI P., AMIENS C., CHAUDRET B., BRYCZEWSKA E.

Scientific Bulletin Lodz Technical University - Physics, 2006, **26**, pp. 99 - 106.

Improvement of micromachined SnO₂ gas sensors selectivity by optimised dynamic temperature operating mode

PARRET F., MENINI P., MARTINEZ A., SOULANTICA K., MAISONNAT A., CHAUDRET B.

Sens. Actuat. B, 2006, **118**, pp. 276-282.

Preparation Pt⁰/MCM-41: effect of drying on MCM-41 structure and Pt⁰ dispersion

ZHU B., LETELLIER F., BLANCHARD J., FAJERWERG K., LOUIS C., GUILLAUME D., UZIO D., BREYSSE M.
Stud. Surf. Sci. Catal., 2006, **162**, pp. 449-456.

Synthesis of metal nanoparticles inside a porous support in fluidized bed: application to supported catalysts

BARTHE L., DESPORTES S., STEINMETZ D., HEMATI M., PHILIPPOT K., CHAUDRET B.

In : *Proceedings of the 5th World Congress on Particle Technology (WCPT-5) AIChE Spring National Meeting* (Ed.), 2006.