

Liste Publications année 2009

1- Iron Nanoparticles Growth in Organic Super-Structures

L.-M. Lacroix, S. Lachaize, A. Falqui, M. Respaud, B Chaudret
J.Am.Chem.Soc. 2009, 131, 549

2- Cobalt growth on the tips of CdSe nanorods

J. Maynadié, A. Salant, A. Falqui, M. Respaud, E. Shaviv, U. Banin, K. Soulantica, B Chaudret
Angew Chem Int Ed Engl 2009, 48, 1814

3- An efficient strategy to drive nanoparticles into carbon nanotubes and the remarkable confinement effect on their catalytic activity

E. Castillejos, P.-J. Debouttière, L. Roiban, A. Solhy, V. Martinez, Y. Kihn, O. Ersen, K. Philippot, B. Chaudret, P. Serp
Angew Chem Int Ed Engl 2009, 48, 2529

4- Ligands effect on the NMR, vibrational and structural properties of tetra- and hexanuclear ruthenium hydrido clusters: a theoretical investigation

I. del Rosal, F. Jolibois, L. Maron, K. Philippot, B. Chaudret, R. Poteau
J. Chem. Soc. Dalton Trans. 2009, 2142

5- Magnetic hyperthermia in single-domain monodisperse FeCo nanoparticles: Evidences for Stoner-Wohlfarth behaviour and large losses

L.-M. Lacroix, R. Bel Malaki, J. Carrey, S. Lachaiz1, G.F. Goya, B. Chaudret, M. Respaud
J. Appl. Phys. 2009, 105, 023911

6- Size effects on varistor properties made from zinc oxide nanoparticles by low temperature spark plasma sintering

L. Saint Macary, M.L. Kahn, C. Estournès; P. Fau, D. Trémouilles, M. Bafleur, P. Renaud, B. Chaudret
Adv. Funct. Mater., 2009, 11, 5775

7- Organometallic chemistry: an alternative approach towards metal oxide nanoparticles

M.L. Kahn, A. Glaria, C. Pages, M. Monge, L. Saint Macary, A. Maisonnat, B. Chaudret
J. Mater. Chem. 2009, 19, 4044

8- A microactuator based on the decomposition of an energetic material for disposable lab-on-chip.

G. A Ardila Rodriguez, S. Suhard, C. Rossi, D. Estève, P. Fau, S. Sabo-Etienne, A.- F. Mingotaud, M. Mauzac and B. Chaudret.
J. Micromech. Microeng. 2009, 19, 015006

9- FeCo nanoparticles from an organometallic approach: synthesis, organisation and physical properties

C. Desvaux, F. Dumestre, C. Amiens, M. Respaud, P. Lecante, E. Snoeck, P. Fejes, P. Renaud, B. Chaudret
J. Mater. Chem. 2009, 19, 3268

10- Making energetic materials, PDMS-based elastomer and microelectronics work together: fabrication of a disposable micro-actuator"

S. Suhard, Samuel, P. Fau, B. Chaudret, S. Sabo-Etienne, M. Mauzac, A.-F. Mingotaud, G. Ardila-Rodriguez, C. Rossi, M.-F. Guimon
Chem. Mater. 2009, 21, 1069

11- Model arenes hydrogenation with silica-supported rhodium nanoparticles : The role of the silica grains and of the solvent on catalytic activities

L. Barthe, A. Denicourt-Nowicki, A. Roucoux, K. Philippot, B. Chaudret, M. Hemati

12- DFT ^2H quadrupolar coupling constants of ruthenium complexes: a good probe of the coordination of hydrides in conjunction with experiments

I. del Rosal, T. Gutmann, L. Maron, F. Jolibois, B. Chaudret, B. Walaszek, H.-H. Limbach, R. Poteau, G. Buntkowsky

Phys.Chem.Chem.Phys. 2009, 11, 5657

13- Silica nanoparticles grown and stabilised in organic non-alcoholic media

N. El Hawi, C. Nayral, F. Delpech, Y. Coppel, A. Castel, B. Chaudret

Langmuir, 2009, 25, 7540

14- 1,3-Diphosphite ligands derived from carbohydrates as chiral stabilizers for transition metal nanoparticles: promising catalytic systems for the asymmetric hydrogenation of ortho- and meta-methylanisoles "

A. Gual, C. Godard, K. Philippot, B. Chaudret, A. Denicourt-Nowicki, A. Roucoux, S. Castellón, C. Claver

ChemSusChem, 2009, 2, 769-779

15- Self-assembled platinum nanoparticles into heavily fluorinated templates: reactive gas effect on the morphology

Tristany M, Moreno-Manas M, Pleixats R, Chaudret B, Philippot K, Guari Y, Matsura V, Lecante P

New J Chem, 2009, 33, 1529

16- Magnetoresistance and collective Coulomb blockade in superlattices of ferromagnetic CoFe nanoparticles

Tan RP, Carrey J, Desvaux C, Lacroix LM, Renaud P, Chaudret B, Respaud M

Phys Rev B, 2009, 79, 174428

17- Organized 3D-alkyl imidazolium ionic liquids could be used to control the size of in situ generated ruthenium nanoparticles?

Gutel T, Santini CC, Philippot K, Padua A, Pelzer K, Chaudret B, Chauvin Y, Basset JM

J Mater. Chem. 2009, 19, 3624-3631

18- Raman scattering by acoustic phonons in wurtzite ZnO prismatic nanoparticles

Chassaing PM, Demangeot F, Combe N, Saint-Macary L, Kahn ML, Chaudret B

Phys Rev B, 2009, 79, 155314

19- Temperature dependent magnetic characterisation of core/shell Fe₈₀Rh₂₀ nanoparticles

Trunova AV, Lindner J, Meckenstock R, Spasova M, Farle M, Ciuculescu D, Amiens C, Chaudret B, Respaud M

J Magnetism and Magnetic Materials, 2009, 321, 3502

20- Rhodium colloidal suspension deposition on porous silica particles by dry impregnation: Study of the influence of the reaction conditions on nanoparticles location and dispersion and catalytic reactivity

L. Barthe, M. Hemati, K. Philippot, B. Chaudret, A. Denicourt-Nowicki, A. Roucoux

Chemical Engineering Journal 151 (2009) 372–379

21- Where does hydrogen adsorb on Ru nanoparticles ? A powerful joined ^2H MAS-NMR / DFT approach

Lionel A. Truflandier, Iker Del Rosal, Bruno Chaudret, Romuald Poteau and Iann C. Gerber†

ChemPhyschem 2009, 10, 2939-2942

22- An organometallic approach for the synthesis of water-soluble platinum and ruthenium nanoparticles

Pierre-Jean Debouttière, Victor Martinez, Karine Philippot, and Bruno Chaudret

23- Magnetism of single-crystalline Co nanorods.

K. Soulantica, F. Wetz, J. Maynadié, A. Falqui, R.P. Tan, T. Blon, B. Chaudret, and M. Respaud
Appl.; Phys. Lett. Volume: 95 Issue: 15 Pages: 52504-52504

24- High-resolution ²H MASNMR applied to deuterium analogs of hydrido Z₂- dihydrogencomplexes Sven Macholl, Jochen Matthes, Hans-Heinrich Limbach, Sylviane Sabo-Etienne, Bruno Chaudret, Gerd Buntkowsky

SOLID STATE NUCLEAR MAGNETIC RESONANCE, 2009, 36, 137-143

25- [Ru(0)]@SiO₂ and [RuO₂]@SiO₂ Hybrid Nanomaterials: From Their Synthesis to Their Application as Catalytic Filters for Gas Sensors

Matsura Victor, Guari Yannick, Reye, Catherine, Corriu Robert J. P., Tristany Mar, Jansat, Susanna, Philippot Karine, Maisonnat, Andre, Chaudret Bruno
Adv. Funct. Mater., 2009, 19, 3781-3787

26- Liquid crystalline magnetic materials

Zadoina L., Lonetti B., Soulantica K., Mingotaud A. -F., Respaud M., Chaudret B., Mauzac M.
J. Mater. Chem., 2009, 19, 8075-8078

27- Single-Crystalline Co Nanowires: Synthesis, Thermal Stability, and Carbon Coating

Ciuculescu Diana, Dumestre Frederic, Comesana-Hermo Miguel, Chaudret Bruno, Spasova Marina, Farle Michael, Amiens Catherine
Chem. Mater., 2009, 21, 3987-3995

28- Self-Assembly of ZnO Nanocrystals in Colloidal Solutions

Pages, Carole, Coppel Yannick, Kahn Myrtil L., Maisonnat, Andre, Chaudret, Bruno
Chem. Phys. Chem., 2009, 10, 2334-2344

29- When Energetic Materials, PDMS-Based Elastomers, and Microelectronic Processes Work Together: Fabrication of a Disposable Microactuator

Suhard Samuel, Fau Pierre, Chaudret Bruno, Sabo-Etienne Sylviane, Mauzac Monique, Mingotaud Anne-Francoise, Ardila-Rodriguez Gustavo, Rossi, Carole, Guimon Marie-Francoise
Chem. Mater., 2009, 21, 1069-1076

30- 99% RTS-like noise in gold nanoparticles μ -stripes

J. Grisolia, B. Viallet, C. Amiens, S. Baster, A.S. Cordan, Y. Leroy, L. Ressler, C. Soldano
Nanotechnology, 2009, 20, 355303.

31- Tailoring the magnetic anisotropy in CoRh nanoalloys.

M. Muñoz-Navia, J. Dorantes-Dávila, D. Zitoun, C. Amiens, N. Jaouen, A. Rogalev, M. Respaud, and G. M. Pastor
Appl. Phys. Lett., 2009, 95, 233107.

32- Les nanoparticules d'or au cœur des interactions entre classes préparatoires et laboratoire de recherches universitaire : un sujet pour Travaux d'Initiative Personnelle Encadrés (TIPE)

K. Fajerweg, J. Lalande, S. Zhu
Actualité Chimique, 2009, 335, 39