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Chaire Chimie de la matière condensée (2001-2009)

Bibliographie

Principales publications depuis 2000

- « Biopolymer folding driven nanoparticle reorganization in bio-nanocomposites », *Soft Matter*, n° 8, 2012, pp. 2930-2944.
- « Crystallographic and structural transformations of sedimentary chalcedony flint upon heat treatment », *Journal of Archaeological Science*, n° 39, 2012, pp. 135-144.
- « Formation of Crystalline Na₂V₆O₁₆·3H₂O Ribbons into Belts and Rings », *Inorganic Chemistry*, n° 51, 2012, pp. 2241-2246.
- « Micro-algal biosensors », *Analytical Bioanalytical Chemistry*, n° 401, 2011, pp. 581-597.
- « From diatoms to silica-based biohybrids », *Chemical Society Review*, n° 40, 2011, pp. 849-59.
- « Morphological Evolution of (NH₄)_{0.5}V₂O₅·3H₂O Fibers into Belts, Triangles, and Rings », *Inorganic Chemistry*, n° 50, 2011, pp. 7421-7428.
- « Improving bacteria viability in metal oxide hosts via an alginate-based hybrid approach », *Journal of Materials Chemistry*, n° 21, 2011, p. 8026.
- « Fibroblast encapsulation in hybrid silica-collagen hydrogels », *Journal of Materials Chemistry*, n° 20, 2010, pp. 666-668.
- « Hydrothermal Synthesis of Nanostructured Vanadium Oxides », *Materials*, n° 3, 2010, pp. 4175-4195.
- « Photosynthetic Microorganism-Mediated Synthesis of Akaganeite (β-FeOOH) », *Nanorods*, 25(17), 2009, Langmuir, pp. 10062-10067.
- « Bacteria encapsulation in a magnetic sol-gel matrix », *Journal of Materials Chemistry*, n° 19, 2009, pp. 1241-1244.
- « Biomimetic dual templating of silica by polysaccharide/protein assemblies », *Colloids and Surfaces B: Biointerfaces*, n° 65, 2008, pp. 140-145.
- « Aqueous Silicates in Biological Sol-Gel Applications: New Perspectives for Old Precursors », *Accounts of Chemical Research*, n° 40, 2007, pp. 819-826.
- « Cyanobacteria as Bioreactors for the Synthesis of Au, Ag, Pd, and Pt Nanoparticles via an Enzyme-Mediated Route », *Journal of Nanoscience and Nanotechnology*, n° 7, 2007, pp. 1-13.
- « Recent bio-applications of sol-gel materials », *Journal of Materials Chemistry*, n° 16, 2006, pp. 1013-1030.

- « Living Cells in Oxide Glasses », *Reviews in Mineralogy & Geochemistry*, n° 64, 2006, pp. 1-18.
- « Sol-gel Chemistry in Medicinal Science », *Current Medicinal Chemistry*, n° 13, 2006, pp. 1-10.
- « Mimicking Biogenic Silica Nanostructures Formation », *Current Nanoscience*, n° 1, 2005, pp. 73-83.
- « Bacteria quorum sensing in silica matrices », *Journal of Materials Chemistry*, n° 14, 2004, pp. 2264-2268.
- « From biogenic to biomimetic silica », *C.R. Palevol*, n° 3, 2004, pp. 443-452.
- « Silica-alginate composites for microencapsulation », *Applied Microbiology Biotechnology*, n° 61, 2003, pp. 429-434.
- « A sol-gel matrix to preserve the viability of encapsulated bacteria », *Journal of Materials Chemistry*, n° 13, 2003, pp. 203-208.
- « Living bacteria in silica gels », *Nature Materials*, n° 1, 2002, pp. 42-44.
- « Macroporous crystalline vanadium oxide foam », *Nature*, n° 416, 2002, p. 702.
- « Synthesis of Polyoxovanadates from Aqueous Solutions », *Journal of Solid State Chemistry*, p. 162, 2001, pp. 315-321.
- « Chimie douce : from shake-and-bake processing to wet chemistry », *New Journal of Chemistry*, n° 25, 2001, p. 1.
- « Encapsulation of biomolecules in silica gels », *Journal Physics, Condensed Matter*, 2001-13, R673-R691.
- « Sol-gel electrochromic coatings and devices: A review », *Solar Energy Materials & Solar Cells*, n° 68, 2001, pp. 365-381.
- « Sol-Gel Entrapment of *Escherichia coli* », *Journal of Sol-Gel Science and Technology*, n° 19, 2000, pp. 647-49.