

2009 APS March Meeting

Monday–Friday, March 16–20, 2009; Pittsburgh, Pennsylvania

Session Z31: Focus Session: Magnetic Nanoparticles and Nanocomposites: Characterization

Sponsoring Units: DMP GMAG

Chair: Manh-Huong Phan, University of South Florida

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Friday, March 20, 2009
11:15AM - 11:27AM

[Z31.00001: Crystal Structure and Magnetic properties of Fe-substituted nanoscale Hydroxyapatite](#)

Andreas Kyriacou , Riccardo Venturelli , Korey Sorge , Theodora Leventouri

Friday, March 20, 2009
11:27AM - 11:39AM

[Z31.00002: Structure determination of CoPt nanoparticles: Chemical ordering and its effect on magnetic properties](#)

Nils Blanc , Laurent Bardotti , Matthias Hillenkamp , Alexandre Tamion , Florent Tournus , Juliette Tuillon-Combes , Veronique Dupuis , Edgar Bonet , Helio Tolentino , Aline Ramos , Maurizio De Santis , Philippe Ohresser , Thierry Epicier

Friday, March 20, 2009
11:39AM - 11:51AM

[Z31.00003: Origin of magnetic anomalies and relaxation mechanisms in ferrofluids](#)

M. B. Morales , M. H. Phan , N. A. Frey , S. Pal , H. Srikanth

Friday, March 20, 2009
11:51AM - 12:03PM

[Z31.00004: Competing effect of blocking and spin frustration in nanostructured gadolinium iron garnets](#)

M.H. Phan , M.B. Morales , H. Srikanth , C.N. Chinnasamy , V.G. Harris

Friday, March 20, 2009
12:03PM - 12:15PM

[Z31.00005: Thermoinduced Magnetization in NiO Nanoparticles](#)

Gregory Brown

Friday, March 20, 2009
12:15PM - 12:27PM

[Z31.00006: Magnetic and EPR Characterization of Ni\(core\)/NiO \(shell\) Nanoparticles](#)

Saritha Nellutla , Alex Smirnov , Junwei Wang , Joseph B. Tracy

Friday, March 20, 2009
12:27PM - 12:39PM

[Z31.00007: Development of Novel Biopolymer/Synthetic-Polymer/Iron Oxide Nanocomposites](#)

Marleth Mena Montoya , Sugeheidy Carranza , Mois'es Hinojosa , Virgilio Gonz'alez

Friday, March 20, 2009
12:39PM - 12:51PM

[Z31.00008: Characterization of ultrasonically prepared \$\gamma\$ -Fe₂O₃-Al₂O₃ shell-core nanocomposites](#)

Matthew Vannette , Joshua Hugen , Daniel Stoecklein , Brett McCarty , Ruslan Prozorov

Friday, March 20, 2009
12:51PM - 1:03PM

[Z31.00009: Phase Transformation in Silica-Coated FePt Nanoparticles](#)

Levent Colak , George Hadjipanayis

Friday, March 20, 2009
1:03PM - 1:15PM

[Z31.00010: Crystallization thermodynamics and kinetics of SmCo₅/Fe system.](#)

Chuanbing Rong , J. Ping Liu

Friday, March 20, 2009
1:15PM - 1:27PM

[Z31.00011: Magneto-structural study of phase pure \$\alpha\$ and \$\beta\$ type MnAs nanoparticles](#)

P. Kharel , Keerthi Senevirathne , Ron Tackett , Stephanie Brock , G. Lawes

Friday, March 20, 2009
1:27PM - 1:39PM

[Z31.00012: Magnetic Force Microscopy of Ferromagnetic MnAs Nanoparticles in GaAs.](#)

Ben Chaprut , Radhika Barua , Laura Lewis , Don Heiman

Friday, March 20, 2009
1:39PM - 1:51PM

[Z31.00013: Nanoparticulate Alnico Thin Films with High Coercivity](#)

Ozan Akdogan , George C. Hadjipanayis

Friday, March 20, 2009
1:51PM - 2:03PM

[Z31.00014: Magnetic Properties of As-Prepared and Annealed Nanocrystalline Fe Particles](#)

Karl Unruh , Thomas Ekiert

Friday, March 20, 2009
2:03PM - 2:15PM

[Z31.00015: Anisotropic Sm-Co\(Fe\) Nanoparticles Produced by Surfactant-Assisted Ball Milling](#)

Nilay Gunduz-Akdogan , George C. Hadjipanayis , David J. Sellmyer