

PUBLICATIONS

A model for cylindrical nanoporosity based on single positron annihilation

M. Félix, R.A. Rodríguez, J. Castañeda, R. Morones and V.M. Castaño *Optical Materials* 27, 1291 (2005)

A nanotechnology approach to high-performance anti-graffiti coatings

V.M. Castaño and R. Rodríguez
Int. J. of Appl. Management and Technol. 2, 53 (2004)

Adsorption Properties of Metal Ions Using Alumina Nano-Particles in Aqueous and Alcoholic Solutions

S. Pacheco and R. Rodríguez
J. Sol-Gel Sci. Tech. 20, 263-273 (2001)

Carbon nanotubes-polymer nanocomposites: the role of interfaces (invited review article)

C. Velasco, A.L. Martínez and V.M. Castaño
Comp. Interfaces 11, 567 (2005)

Chemical functionalization of carbon nanotubes through an organosilane

C. Velasco, A. Martínez, M. Lozada, A. Alvarez and V.M. Castaño *Nanotechnology* 13, 495 (2002)

Chemical Functionalization on Carbon nanotubes: principles and applications

C. Velasco, A.L. Martínez and V.M. Castaño
Chapter 3, "Trends in Nanotechnology Research", E.V. Dirote (Editor), Nova Science Publishers, New York, ISBN: 1-59454-091-8 (2004)

Collagen-grafting of nylon fibres

C.J. García, G. Hernández, V.M. Castaño
Nanostruct. Polym. and NanoComp. 2, 35 (2006)

Corrosion-resistant coatings: a nanotechnology approach

G. Carbajal, A. Martínez, G. González and V.M. Castaño *Anti-Corrosion Meth. and Mater.* 48, 241 (2001)

Crystallization of Nano-Sized Titania Particles Produced by Sol-Gel Process

E. Haro, R. Rodríguez, M. Cruz, O. Cano and R. Arroyo
J. Mat. Res. 9 (No. 8), 2102-2108 (1994)

Dynamical-mechanical and thermal analysis of carbon nanotube-methyl-ethyl-methacrylate nanocomposites

C. Velasco, A. L. Martínez, F. Fisher, R. Ruoff and V. M. Castaño *J. Phys. D* 36, 1423 (2003)

Dynamical-mechanical and thermal analysis of polymeric composites reinforced with keratin biofibers from chicken feathers

Martínez-Hernández A.L., Velasco-Santos C., de-Icaza M., Victor M. Castaño *Composites B* 38, 405 (2007)

Electrochemical Synthesis of Nanosized Hydroxyapatite

L. Montero, A. Sáenz, J.G. Rodríguez, J. Arenas, V.M. Castaño *Mater. Sci.* 41, 2141 (2006)

Evidence for Energy Transfer in Er³⁺-Doped PMMA-PAAc Copolymer Samples

R. Sosa, M. Flores, R. Rodríguez, J. Hernández and A. Muñoz *J. Luminiscence* 93, 327-332 (2001)

Fractal Characterization of Silica Sol Prepared by the Sol-Gel Method: From the Sol Formation to the Flocculation Process

R. Rodríguez, G. Rojas, M. Estevez and S. Vargas
J. Sol-Gel Sci. Tech., 23, 1-7 (2002)

Generalized free volume diagrams from positron annihilation data for the study of nanoporosity in silica gel specimens

M. Félix, R. Nava, R. López, O. Olea, A. Cabral and V.M. Castaño *Mater. Res. Innov.* 5, 144 (2002)

Grafting of methyl methacrylate onto natural keratin

Ana Laura Martínez-Hernández, Carlos Velasco-Santos, Miguel de Icaza, Victor M. Castaño
e-Polymers, No. 016 (2003)

High Resolution Electron Microscopy studies of nanophases in Nd-Fe-B alloys

M.I. Rosales and V.M. Castaño
J. Mater. Sci. 30, 3188 (1995)

Hydrogen bonding of polystyrene latex nanospheres to open-end cap and sidewall carbon nanotubes

C.Velasco, A. Martínez and V.M. Castaño
J. Phys. Chem. B 108, 18866 (2004)

Improvement of thermal and mechanical properties of carbon nanotubes composites through chemical functionalization

C. Velasco, A. L. Martínez, F. T. Fisher, R. Ruoff and V. M. Castaño Chem. Mater. 15, 4470 (2003)

Infiltration of glassy bodies with zirconia nanoparticles

S. Jiménez, A. Valadéz, E. Rubio and V.M. Castaño J. Nanopart. Res. 5, 173 (2003)

Mechanical properties evaluation of new composites with protein biofibers reinforcing poly(methyl methacrylate)

Ana Laura Martínez-Hernández, Carlos Velasco-Santos, Miguel de Icaza, Victor M. Castaño Polymer, 46, 8233 (2005)

Mesogeneous catalysts: a new concept in nanotechnology

R. Rodriguez, R. Nava, T. Halatchev and V.M. Castaño Macromolecular Rapid Comm. 25, 643 (2004)

Microstructural characterisation of keratin fibres from chicken feathers

A.L. Martínez-Hernández, C. Velasco-Santos, M. de Icaza and V.M. Castaño
Int. J. Environment and Pollution, 23, 162 (2005)

Nanohybrid Scratch Resistant Coatings for Teeth and Bone Viscoelasticity manifested in Tribology

A.de la Isla, W. Brostow, B. Bujard, M. Estévez, S. Vargas, R. Rodríguez and V.M Castaño Mater. Res. Innov. 7, 110 (2003)

Nanoparticles-enhanced thermoluminescence in silica gels

D. Mendoza, C. Angeles, P. Salas, R. Rodríguez and V.M. Castaño
Nanotechnology 14, L19 (2003)

Nanoporosity as quantum positron traps

M. Félix, R.A. Rodríguez, J. Castañeda, R. Morones and V.M. Castaño
Optical Materials 27, 1286 (2005)

Naturally produced carbon nanotubes

C.E. Velasco, A. Martínez, A. Cosultchi, R. Rodríguez and V.M. Castaño
Chem. Phys. Lett. 373, 272 (2003)

Ordered SiO₂-(phenolic-formaldehyde resin) in-situ nanocomposites

G. Hernández, F. Rojas and V.M. Castaño
Nanotechnology 15, 98 (2004)

Organic-inorganic hybrid coating (poly(methyl methacrylate)/monodisperse silica)

E. Rubio, J. Almaral, R. Ramírez, V. Castaño and V. Rodríguez
Optical Materials 27, 1266 (2005)

Positron annihilation studies of nanoholes and microphase formation control of a PMMA-MMA-TEGDMA system

A. Félix, G. Consolati, R. Velázquez, V.M. Castaño
Polymer 47, 265 (2006)

Preparation of Silica - Hydroxyapatite nanometric composites

A. Sáenz, M. Montero and V.M. Castaño
Phys. Stat. Solidi B 230, 347 (2002)

Tribological improvement of Al by zirconia nanoparticles infiltration

S. Jiménez, R. Fuentes, E. Rubio, R. Lima, R. Rodríguez, A. Herrera and V.M. Castaño
Mater. Res. Innov. 4, 42 (2000)

UV-stimulated photo-catalytic activity in polycrystalline diamond film surfaces

M. Apátiga and V.M. Castaño
Appl. Phys. Lett. 83, 4542 (2003)