

Publicaciones año 2015

- "Promoting Effect of Tin in Platinum Electrocatalysts for Direct Methanol Fuel Cells (DMFC)"
Natalia S. Veizaga, Virginia I. Rodriguez, Thairo A. Rocha, Mariano Bruno, Osvaldo A. Scelza, Sergio R. de Miguel and Ernesto R. Gonzalez
J. Electrochem. Soc. **162**(3) (2015) F243-F249
- "Equivalent circuit modeling of the bistable conduction characteristics in electroformed thin dielectric films"
J. Blasco, N. Ghenzi, J. Suñé, P. Levy and E. Miranda
Microelectron. Reliab. **55**(1) (2015) 1-14
- "On substituted pyrazole derivatives. II. (*E*)-1-(4-{{1-(4-Fluorophenyl)-3,5-dimethyl-1*H*-pyrazol-4-yl}diazanyl}phenyl)ethanone and (*E*)-1-(4-chlorophenyl)-3,5-dimethyl-4-[2-(2-nitrophenyl)diazanyl]-1*H*-pyrazole"
Carlos Bustos, Luis Alvarez-Thon, Tania Oportus, Angela Mesías-Salazar and Ricardo Baggio
Acta Cryst. C **71**(1) (2015) 53-58
- "Redox properties of nanostructured lanthanide-doped ceria spheres prepared by microwave assisted hydrothermal homogeneous co-precipitation"
F.F. Muñoz, L.M. Acuña, C.A. Albornoz, A.G. Leyva, R.T. Bakere and R.O. Fuentes
Nanoscale **7**(1) (2015) 271-281
- "Diffusion. Viscosity Decoupling in Supercooled Glycerol Aqueous Solutions"
José A. Trejo González, M. Paula Longinotti and Horacio R. Corti
J. Phys. Chem. B **119**(1) (2015) 257-262
- "Why the Co-based 115 compounds are different: The case study of $GdMIn_5$ ($M=Co, Rh, Ir$)"
Jorge I. Facio, D. Betancourth, Pablo Pedrazzini, V.F. Correa, V. Vildosola, D.J. García and Pablo S. Cornaglia
Phys. Rev. B **91**(1) (2015) 014409/1-7
- "Atropisomerism in Amidinoquinoxaline *N*-Oxides: Effect of the Ring Size and Substituents on the Enantiomerization Barriers"
Jimena E. Díaz, Nicolas Vanthuyne, Hélène Rispaud, Christian Roussel, Daniel Vega and Liliana R. Orelli
J. Org. Chem. **80**(3) (2015) 1689-1695
- "A revision of the fishtail effect in $YBa_2Cu_3O_{7-\delta}$ crystals and its connection with vortex dynamics"
D. Pérez Daroca and G. Pasquini
Physica C Supercond. **508** (2015) 31-35
- "Low-temperature magnetic properties of $GdCoIn_5$ "
D. Betancourth, J.I. Facio, P. Pedrazzini, C.B.R. Jesus, P.G. Pagliuso, V. Vildosola, Pablo S. Cornaglia, D.J. García and V.F. Correa

- J. Magn. Magn. Mater. **374** (2015) 744-747
- "Gold Nanoparticles Supported in Zirconia.Ceria Mesoporous Thin Films: A Highly Active Reusable Heterogeneous Nanocatalyst"
Ianina L. Violi, Andrés Zelcer, Mariano M. Bruno, Vittorio Luca and Galo J.A.A. Soler-Illia
ACS Appl. Mater. Interfaces **7**(2) (2015) 1114-1121
 - "Solid-state Studies of the Crystalline/Amorphous Character in Linear Poly(ethylenimine hydrochloride) (PEI-HCl) Polymers and Their Copper Complexes"
Juan Manuel Lázaro-Martínez, Enrique Rodríguez-Castellón, Daniel Vega, Gustavo Alberto Monti and Ana Karina Chattah
Macromolecules **48**(4) (2015) 1115-1125
 - "Ground state of the impurity Anderson model revisited: A projector operator solution"
P. Roura-Bas, I.J. Hamad and E V. Anda
Phys. Status Solidi C **252**(2) (2015) 421-430
 - "A conductivity study of preferential solvation of lithium ion in acetonitrile-dimethyl sulfoxide mixtures"
Nataliia Mozhhukhina, M. Paula Longinotti, Horacio R. Corti and Ernesto J. Calvo
Electrochim. Acta **154** (2015) 456-461
 - "The three-component cocrystal 1,3,5-trifluoro-2,4,6-triiodobenzene-pyridine *N*-oxide-water (1/2/1) built up by halogen bonds, hydrogen bonds and π - π interactions"
P.A. Raffo, F.D. Cukiernik and R.F. Baggio
Acta Cryst. C **71**(2) (2015) 84-88
 - "Prediction of structural and metal-to-semiconductor phase transitions in nanoscale MoS₂, WS₂, and other transition metal dichalcogenide zigzag ribbons"
F. Güller, A.M. Llois, J. Goniakowski and C. Noguera
Phys. Rev. B **91**(7) (2015) 075407/1-7
 - "Atomistic modeling of Ag, Au and Pt nanoframes"
Silvina E. Fioressi, Daniel E. Baceló, Guillermo Bozzolo, Hugo O. Mosca and Mariela F. del Grosso
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 - "*Ab Initio* Study of the Ferromagnetic Response, Local Structure, and Hyperfine Properties of Fe-Doped SnO₂"
A.M. Mudarra Navarro, C.E. Rodríguez Torres, A.F. Cabrera, M. Weissmann, K. Nomura and L.A. Errico
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 - "Layered exfoliable crystalline materials based on Sm-, Eu- and Eu/Gd-2-phenylsuccinate frameworks. Crystal structure, topology and luminescence properties"
G.E. Gomez, M.C. Bernini, E.V. Brusau, G.E. Narda, D. Vega, A.M. Kaczmarek, R. Van Deun and M. Nazzarod
Dalton Trans. **44**(7) (2015) 3417-3429
 - "Entropic determination of the phase transition in a coevolving opinion-formation model"
E. Burgos, Laura Hernández, H. Ceva and R.P.J. Perazzo
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- "Comparison of the degradation characteristics of AlON/InGaAs and Al₂O₃/InGaAs stacks"
F. Palumbo, I. Krylov and M. Eizenberg
J. Appl. Phys. **117**(10) (2015) 104103/1-8
- "Structure and magnetism of a binuclear Cu^{II} pyrophosphate: transition to a 3D magnetic behaviour studied by single crystal EPR"
Rosana P. Sartoris, Otaciro R. Nascimento, Ricardo C. Santana, Mireille Perek, Ricardo F. Baggio and Rafael Calvo
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- "Platinum supported on mesoporous carbon as cathode catalyst for direct methanol fuel cells"
Mariano M. Bruno, Federico A. Viva, M. Agustina Petruccelli and Horacio R. Corti
J. Power. Sources. **278** (2015) 458-463
- "Molecular Dynamics Study of Ionic Liquids Complexation within β -Cyclodextrins"
Rocío Semino and Javier Rodríguez
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- "Kinetics of the hydrogen evolution on nickel in alkaline solution: new insight from rotating disk electrode and impedance spectroscopy analysis"
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- "Tuning the resistive switching properties of TiO_{2-x} films"
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- "Hyperfine and magnetic properties of a Y_xLa_{1-x}FeO₃ series (0 < x < 1)"
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- "A high selectivity quaternized polysulfone membrane for alkaline direct methanol fuel cells"
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- "A monoclinic form of dendrocarbin A: a borderline case of one-dimensional isostructural polymorphism"
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- "Three isotopic polymeric complexes with rare earth cations, but-2-enoate anions and 4,4'-(ethane-1,2-diyl)dipyridine and 4,4'-(ethene-1,2-diyl)dipyridine bridging ligands"
A.M. Atria, M.T. Garland and R. Baggio
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- "Ferromagnetism in layered metastable 1T-CrTe₂"
Daniele C. Freitas, Ruben Weht, André Sulpice, Gyorgy Remenyi, Pierre Strobel, Frédéric Gay, Jacques Marcus and Manuel Núñez-Regueiro
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- "A first-principles study of He, Xe, Kr and O incorporation in thorium carbide"
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- "Impact of supramolecular interactions of dextran- β -cyclodextrin polymers on invertase activity in freeze-dried systems"
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- "Synthesis, characterization, X-ray crystal structure, DFT calculation, DNA binding, and antimicrobial assays of two new mixed-ligand copper(II) complexes"
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- "Manganite based memristors: Influence of the electroforming polarity on the electrical behavior and radiation hardness"
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Thin Solid Films **583** (2015) 76-80
- "Identification of carbon-based black pigments in four South American polychrome wooden sculptures by Raman microscopy"
Eugenia P. Tomasini, Blanca Gómez, Emilia B. Halac, María Reinoso, Emiliano J. Di Liscia, Gabriela Siracusano and Marta S. Maier
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- "Structure, thermodynamic properties, and phase diagrams of few colloids confined in a spherical pore"
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- "Kinetics of the reaction of nitric oxide with polypyridylamine iron(II) complexes"
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- "Synthesis and characterization of CoFe_2O_4 magnetic nanotubes, nanorods and nanowires. Formation of magnetic structured elastomers by magnetic field-induced alignment of CoFe_2O_4 nanorods"
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- "Anisotropic magnetic-field-induced phase transition in MnAs nanoribbons"

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 A.A. Aligia, P. Roura-Bas and Serge Florens
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 - "Brushes of semiflexible polymers in equilibrium and under flow in a super-hydrophobic regime"
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 - "Structure of a dinuclear cadmium complex with 2,2'-bipyridine, monodentate nitrate and 3-carboxy-6-methylpyridine-2-carboxylate ligands: intramolecular carbonyl(lone pair)⋯π(ring) and nitrate(π)⋯π(ring) interactions"
 J. Granifo, S. Suarez and R. Baggio
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 - "Cofactor composition and function of a H₂-sensing regulatory hydrogenase as revealed by Mössbauer and EPR spectroscopy"
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 - "Large perpendicular magnetic anisotropy in magnetostrictive Fe_{1-x}Ga_x thin films"
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 - "Isotopic Preferential Solvation of I⁻ in Low-Temperature Water Nanoclusters"
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 - "Arsenic-bridged magnetic interactions in an emerging two-dimensional FeAs nanostructure on MnAs"
 Christian Helman, Valeria Ferrari and Ana Maria Llois
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 - "Discussing Endogenous NO[•]/HNO Interconversion Aided by Phenolic Drugs and Vitamins"
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- "A Cu(II) POLYMERIC COMPLEX SURVEYING TRIETHANOLAMINE AND 1,2-DI(4-PYRIDYL)ETHYLENE AS BRIDGING LIGANDS"
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- "Molecular Dynamics Simulations of Ibuprofen Release from pH-Gated Silica Nanochannels"
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- "Entrance dynamics of CH₄ molecules through a methane.water interface"
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- "SBR/BiFeO₃ Elastomer Capacitor Films Prepared under Magnetic and Electric Fields Displaying Magnetoelectric Coupling"
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- "Crystallographic identification of an unexpected by-product in an Ullman's reaction toward biphenyls: 1-(4-hexyloxy-3-hydroxyphenyl)ethanone"
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- "Influence of substitutional disorder on the electrical transport and the superconducting properties of $\text{Fe}_{1+z}\text{Te}_{1-x-y}\text{Se}_x\text{S}_y$ "
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- "Equilibrium and Dynamical Characteristics of Imidazole Langmuir Monolayers on Graphite Sheets"
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- "Diffusion in thorium carbide: A first-principles study"
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- "Structural and morphological properties of $\text{Ce}_{(1-x)}\text{Fe}_x\text{O}_{2-\delta}$ synthesized by citrate route"
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- "A temperature-induced order-disorder phase transition in a 4-substituted 4,2':6',4"-terpyridine"
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- "Structural aspects of two α -dihydrazones displaying a complete survey of intermolecular interactions"
C. Bustos, L. Alvarez-Thon and R. Baggio
Acta Cryst. C **71**(12) (2015) 1106-1113
- "Molecular Dynamics Simulation of Ice Indentation by Model Atomic Force Microscopy Tips"
Julian Gelman Constantin, Marcelo A. Carignano, Horacio R. Corti and Igal Szleifer
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- "Quantum control of isomerization by robust navigation in the energy spectrum"
G.E. Murgida, F.J. Arranz and F. Borondo
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- "Reliability of the one-crossing approximation in describing the Mott transition"
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- "Structure and spectroscopy of two new bases for building block: Terpyridine derivatives"
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- "A novel oxido-vanadium(V) Schiff base complex: synthesis, spectral characterization, crystal structure, electrochemical evaluation, and biological activity"
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- "Influence of gate oxides with high thermal conductivity on the failure distribution of InGaAs-based MOS stacks"
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- "Photophysics of an octasubstituted zinc(II) phthalocyanine incorporated into solid polymeric magnetic and non-magnetic PLGA-PVA nanoparticles"
V.E. Diz, G. Leyva, R.D. Zysler, J. Awruch and L.E. Dixelio
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- "Salts of 5-amino-2-sulfonamide-1,3,4-thiadiazole, a structural and analog of acetazolamide, show interesting carbonic anhydrase inhibitory properties, diuretic, and anticonvulsant action"
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- "Tuning the structure, dimensionality and luminescent properties of lanthanide metal-organic frameworks under ancillary ligand influence"
Richard F. D'Vries, German E. Gomez, José H. Hodak, Galo J.A.A. Soler-Illia and Javier Ellena
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- "Natural diatomites: Efficient green catalyst for Fenton-like oxidation of Orange II"
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- "Performance of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{1-y}\text{Fe}_y\text{O}_3$ ($y=0.2, 0.5$ and 0.8) nanostructured cathodes for intermediate-temperature solid-oxide fuel cells: Influence of microstructure and

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Augusto Mejía Gómez, Joaquín Sacanell, Ana Gabriela Leyva and Diego G. Lamas
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- "Caracterización arqueométrica de pigmentos color negro de material cerámico de la Quebrada de Humahuaca, Jujuy, Argentina"
Verónica J. Acevedo, Mariel A. López, Eleonora Freire, Emilia B. Halac, Griselda Polla, María Reinoso y Fernando Marte
Artículo seleccionado del conjunto de ponencias presentadas en el "III Congreso Latinoamericano de Arqueometría" (CLA 2011), Universidad de Tarapacá, Arica, Chile, Noviembre 14-18, 2011. Este manuscrito fue evaluado por investigadores externos y editado por Marcela Sepúlveda y Verónica Silva, en su calidad de editoras invitadas de la Revista. Chungara, **47**, N°2 (2015) 229-238
- "Phase Transformation of TiO₂ Thin Films in Function Bias Voltage"
Lina M. Franco, Mariana Fazio, Emilia Halac, Daniel Vega, Eduardo Heredia, Ariel Kleiman and Adriana Márquez
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- "Magnetic Nanoparticles of La_{0.78}Sr_{0.22}MnO₃, Coated with SiO₂: Preparation and Cytotoxicity in Human Cell Cultures"
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- "General features of progressive breakdown in gate oxides: A compact model"
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IEEE Conference Publications, **IRPS 2015** (2015) 5A.1.1-5A.1.6
- "Estudio tecnológico de diseños "estilo aguada" realizados sobre fragmentos de cerámicos"
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"Arqueometría argentina, metodologías científicas aplicadas al estudio de los bienes culturales: datación, caracterización, prospección y conservación", Compiladores Adrián Pifferetti e Irene Dosztal, Primera edición, Aspha Ediciones, Ciudad Autónoma de Buenos Aires (2015) 109-125 [[abstract,url](#)]
- "Dissipative Particle Dynamics: A Method to Simulate Soft Matter Systems in Equilibrium and Under Flow"
C. Pastorino and A. Gama Goicochea

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- "Synthesis of Mesoporous Carbon by Stabilization of the Nanoparticles Forming the Resorcinol/Formaldehyde Gels"
Cesar Barbero, Juan Balach, Mariano Bruno, Gabriel A. Planes and Maria C. Miras
Capítulo 14 del libro "**Comprehensive Guide for Mesoporous Materials, Volume 1: Synthesis and Characterization**", Mahmood Aliofkhazraei, 1st Edition, Nova Science Publishers, Inc. (2015), 444 pp [[abstract,url](#)]