

Departamento de Física de la Materia Condensada

División Experimental

División Teoría

Publicaciones 2023

Mezclas Pigmentarias, Recetas Pictóricas E Historias: Una Aproximación Físicoquímica A Las Prácticas Sociales De Pintado En El Cerro De Oyola (Catamarca-Argentina).

Eugenia Ahets Etcheberry ; Lucas Gheco; Marcos Tascon; Emilia Halac; María Reinoso; Fernando Marte
Latin American Antiquity (2023). Cambridge University Press.

As(III) removal of aqueous solutions using zerovalent iron nanoparticles: the role of the UVA-Vis irradiation wavelength
Deisy Pabón Reyes; Emilia B. Halac ; Marta I. Litter
Journal Of Photochemistry And Photobiology A-Chemistry. Elsevier Science 2023 vol.443 n°. p114846 - 114857. issn 1010-6030.

Multianalytical Approach To Understand El Alto-Ancasti Painted Pottery (Northwestern Argentina). Non-Invasive And Micro-Invasive Analyses Of Vessels Paintings From El Taco 19.

Gheco, Lucas; Tascon, Marcos; Gastaldi, Marcos ; Halac, Emilia B; Marte, Fernando
Archaeometry. Wiley-Blackwell Publishing, Inc. 2023

Effect of the substrate and the morphology on electrochemical separation of lithium isotopes: insights from DFT

M. S Bellora, F. M. Cabello, M. A. Barral, M. Ciafardini, F. A. Viva, H. R. Corti, V. L. Vildosola
J. Phys. Chem. C, 127 (2023) 21713-21720.

Assessing dead time effects when attempting isotope ratio quantification by Time-of-Flight Secondary Ion Mass Spectrometry

L. Baque, F. Cabello. F. Viva, H. R. Corti
Biointerphases 18 (2023) 061201.

El litio y sus isotopos en tecnología nuclear: separar para agregar valor.

H. R. Corti

Ciencia e Investigación 73 (2023) 31-39.

Técnicas neutrónicas para el estudio de materiales para la transición energética en el Laboratorio Argentino de Haces de Neutrones

H. R. Corti, G. Horwitz, P. Y. Steinberg

Ciencia Hoy 32 (2023) 28-35.

Magnetic behavior of oxide passivated (Fe_{0.85}Nd_{0.15})_{0.6}B_{0.4} amorphous nanoparticles

Tortarolo, M., Mijovilovich, A., Macedo, W.A.A., Zysler, R.D., Ramos, C.P.

MRS Communications, 2023, 13(3), pp. 438–444

Temperature dependence of irreversible switching fields in NdFeB exchange-spring ribbons

Pampillo, L.G., Oliva, M., Saccone, F.D., Ramos, C.P.

MRS Communications, 2023, 13(1), pp. 184–190

The Santa María pottery of El Bolsón valley (Catamarca, Argentina):: Compositional characterization and implications on the elaboration processes, ca. 1000–1600 ce

Puente, V., Botta, P.M., Desimone, P.M., Ramos, C.P., Porto Lopez, J.M.

Archaeometry, 2023, 65(1), pp. 64–83

Highly efficient arsenic adsorption onto Mg/Al/Fe layered double hydroxides: Kinetics, isotherm, XPS and Mössbauer spectroscopies

C. V. Luengo, N. A. López, C. P. Ramos, M. J. Avena

Journal of Water Process Engineering 56 (2023) 104542

Solid-state properties of Nifurtimox. Preparation, analytical characterization, and stability of an amorphous phase

Aldana B. Moroni, Elena Perez Mayoral, Diego F. Lionello, Daniel R. Vega, Natalia L. Calvo, Teodoro S. Kaufman

European Journal of Pharmaceutics and Biopharmaceutics 184 (2023) 25–35

Gem-diol generation in copper and zinc N-methyl-2-imidazolecarboxaldehyde complexes: solid-state NMR, EPR and single-crystal X-ray studie

Ayelén F. Crespi, Daniel Vega, Ana L. Pérez, Enrique Rodríguez-Castellón, and Juan M. Lázaro-Martínez

Eur. J. Inorg. Chem. 2023, e202200737

Tuning the active interface in TiO₂ thin film-based memristors prepared by PVD
A. Kleiman, C. Peralta, I. Abinzano, D. Vega, E. Halac, A. Marquez, C. Acha
Ceramics International, <https://doi.org/10.1016/j.ceramint.2023.01.046>

Polyphosphoric acid esters promoted synthesis of quinazolin-4(3H)-imines from 2-aminobenzonitrile
Kilimciler, Natalia; Palavecino, Nicolás; Gruber, Nadia; Vega, Daniel; Orelli, Liliana; Diaz, Jimena
The Journal of Organic Chemistry 2022, ID: jo-2022-02558t

Design, synthesis and biological evaluation of novel thiosemicarbazones as cruzipain inhibitors
Gabriel J. Jasinski; Emir Salas-Sarduy; Daniel Vega; Lucas Fabian; Maria Florencia Martini, Albertina G Moglioni
European Journal of Medicinal Chemistry 254 (2023) 115345

Characterization of the hydrochloride salt hemihydrate as a new salt of the antifungal agent tioconazole
Aldana B. Moroni, Elena Perez Mayoral, Diego F. Lionello, Daniel R. Vega, Natalia L. Calvo, Teodoro S. Kaufman
International Journal of Pharmaceutics 637 (2023) 122869

Relatos de mi travesía por el mundo de lo pequeño
P. Levy

Nanotecnología y Sociedad en Argentina : vol 2 : Regiones del Conocimiento Tecnocientífico, compilación de M. Berger
et al., 2023, ISBN 978-631-00-1418-0

LabOSat-01: a payload for in-orbit device characterization.
G. A. Sanca, M. Barella, F. Gomez Marlasca, N. Alvarez, P. Levy y F. Golmar.
IEEE Embedded Systems Letters, <https://doi.org/10.1109/LES.2023.3249408>

Thermoelectric properties of a double quantum dot out of equilibrium in Kondo and intermediate valence regimes
Diego Pérez Daroca, Pablo Roura-Bas, Armando A. Aligia
Phys. Rev. B 108 (2023) 155117

Effect of non-covalent self-dimerization on the spectroscopic and electrochemical properties of mixed Cu(I) Complexes"
Joaquín Cáceres, Danilo H. Jara, Juan Costamagna, Fabián Martínez, Carlos Silva, Luis Lemus, Eleonora Freire,
Ricardo Baggio, Cristian Vera and Juan Guerrero
RSC Adv., 2023, 13, 825-838

Synthesis, structure, and characterisation of a ferromagnetically coupled dinuclear complex containing Co(II) ions in a
high spin configuration and thiodiacetate and phenanthroline as ligands and of a series of isomorphous heterodinuclear
complexes containing different Co : Zn ratios.

Ana L. Pérez, Axel Kemmerer, Alejandro J. Zapata, Rosana Sartoris, Pablo J. Gonzalez, Raul Urteaga, Ricardo Baggio,
Sebastián Suarez, Carlos A. Ramos, Sergio D. Dalosto, Alberto C. Rizzia and Carlos D. Brondino.
Dalton Transactions, 2023, 52, 14595 – 14605

Application of a Low-Cost Material for Uranium Removal: Experimental Variables and Study of Concomitants
Cabranes M, Martín SG , Leyva AG, Babay PA
Journal of Environmental Pollution and Control Volume 5 | Issue 2

Magnetocaloric effect of nanostructured La_{0.6}Sr_{0.4}CoO₃
Fabiana Morales Alvarez; María Belén Vigna; Mariano Quintero; Diego G. Lamas; Joaquín Sacanell
Journal of Alloys and Compounds 2024-01, Volume 970.

Superparamagnetic iron oxide nanoparticles induce persistent large foci of DNA damage in human melanoma cells post-
irradiation

Cecilia Grissi, Marisa Taverna Porro, Marina Perona, Mariel Atia, Lara Negrin, M Sergio Moreno, Joaquín Sacanell,
María Silvina Olivera, Mariela Del Grosso, Hebe Durán, Irene L Ibañez

The role of cluster microstructure on the exchange coupling interaction between magnetically hard and soft phases
S. Ferrari; R. Martínez García; F. Morales; M. Pagnola
Solid State Sciences 2023-09. Volume 143.

Oxygen vacancies and their role on the magnetic character of polycrystalline CeO₂
MA Paulin, G Alejandro, DG Lamas, M Quintero, RO Fuentes, JE Gayone, A Butera, AG Leyva, J Sacanell
Ceramics International 49, 5146-5153 (2023)

Enhanced mineralization of bisphenol A by Electric Arc Furnace Slag: Catalytic Ozonation
L. A. Fasce, F. Bocero, C. P. Ramos, N.S. Inchaurredo
Chemical Engineering Journal Advances, <https://doi.org/10.1016/j.cej.2023.100576>

Controlled generation and detection of a thermal bias in Corbino devices under the quantum Hall regime

M. A. Real, A. Tonina, L. Arrachea, P. Giudici, W. Dietsche

Appl. Phys. Lett. 122, 103101 (2023)

CuGaO₂ delafossite as a high-surface area model catalyst for Cu⁺-activated reactions

E. L. Fornero, G. E. Murgida, M. V. Bosco, J. C. Hernández Garrido, A. Aguirre, F. C. Calaza, D. Stacchiola, M. V.

Ganduglia-Pirovano y A. L. Bonivardi

Catal. 427, 115107 (2023)