

ARTÍCULOS PUBLICADOS AL 15 FEBRERO DE 2017
Investigadores y estudiantes del IICBA

N°	TÍTULO	AUTORES	PUBLICACIÓN	CENTRO DE INV.	DOI
1	Full Mechanism of Zeolite Dealumination in Aqueous Strong Acid Medium: Ab Initio Periodic Study on H-Clinoptilolite.	Valdiviés-Cruz K., Lam A., Zicovich-Wilson C.	<i>The Journal of Physical Chemistry C</i> 2017 121 (5), 2652-2660	CInC	DOI 10.1021/acs.jpcc.6b09794
2	Antiferromagnetic vs. non-magnetic ϵ phase of solid oxygen. Periodic density functional theory studies using a localized atomic basis set and the role of exact Exchange.	A. Ramírez-Solís, C. M. Zicovich-Wilson, R. Hernández-Lamonedá and A. J. Ochoa-Calle.	<i>Physical Chemistry Chemical Physics</i> 2017, 19, 2826-2833.	CInC	DOI 10.1039/C6CP07445F
3	Interrelation of the dissolution behavior and solid-state features of acetazolamide cocrystals.	Arenas-García, J.I.; Herrera-Ruiz, D. Morales-Rojas, H. Höpfl, H.	<i>European Journal of Pharmaceutical Sciences</i> . Volume 96, 1 January 2017, Pages 299-308.	CIQ	DOI 10.1016/j.ejps.2016.09.025
4	Ground-based acoustic parametric generator impact on the atmosphere and ionosphere in an active experiment.	Rapoport, Y.G.; Cheremnykh, O.K.; Koshovy, V.V.; Melnik, M.O.; Ivantyshyn, O.L.; Nogach, R.T.; Selivanov, Y.A.; Grimalsky, V.V.; Mezentsev, V.P.; Karataeva, L.M.; Ivchenko, V.M.; Milinevsky, G.P.; Fedun, V.N.; Tkachenko, E.N.	<i>Annales Geophysicae</i> . Volume 35, Issue 1, 5 January 2017, Pages 53-70.	CIICAp	DOI 10.5194/angeo-35-53-2017
5	Nonlocal and memory effects in nanoscaled thermoelectric layers	Vázquez, F., Figueroa, A.; Rodríguez-Vargas, I.	<i>Journal of Applied Physics</i> , Volume 121, Issue 1, 7 January 2017, Article number 014311	CInC	DOI 10.1063/1.4973588
6	Microwave versus Conventional Light Activation of O-Radical Scission Processes.	Carro, C., Romero, I., Boto, A.	<i>European Journal of Organic Chemistry</i> . Volume 2017, Issue 2, 10 January 2017, Pages 373-380	CIQ	DOI 10.1002/ejoc.201601034
7	Response to Comment on "ribose and related sugars from ultraviolet irradiation of interstellar ice analogs".	Meinert, C.; Myrgorodska, I. De Marcellus, P. Buhse, T. Nahon, L. Hoffmann, S.V. D'Hendecourt, L.L.S. Meierhenrich, U.J.	<i>Science</i> . Volume 355, Issue 6321, 13 January 2017, Article number aah3756	CIQ	DOI 10.1126/science.aah3756
8	Correlation between mechanical properties and corrosion behavior of an Al 6061 alloy coated by 5% CH ₃ COOH pressurized steam and RRA heat treated.	Mayén, J.; Abúndez, A.; Pereyra, I.; Alcudia, E.; Porcayo-Calderón, J.; Colín, J.; Campillo, B.	<i>Surface and Coatings Technology</i> , Volume 309, 15 January 2017, Pages 344-354.	CIICAp	DOI 10.1016/j.surfcoat.2016.11.053
9	Evaluation of mechanical properties of an experimental microalloyed steel subjected to tempering heat treatment and its effect on hydrogen embrittlement.	Villalobos, J.C.; Serna, S.A.; Campillo, B.; López-Martínez, E.	<i>International Journal of Hydrogen Energy</i> . Volume 42, Issue 1, January 2017, Pages 689-698.	CIICAp	DOI 10.1016/j.ijhydene.2016.10.103
10	Actuator Fault Tolerant Control Based on a MIMO-MPC: Application in a Double-Pipe Heat Exchanger.	Escobar-Jimenez, R.F.; Carbot-Rojas, D.A.; Gómez-Aguilar, J.F.; Alvarado-Martínez, V.M.; Téllez-Anguiano, A.C.; Hernandez-Perez, J.A.	<i>Chemical Engineering Communications</i> . Volume 204, Issue 1, 2 January 2017, Pages 86-96.	CIICAp	DOI 10.1080/00986445.2016.1235565
11	A cytotoxic and anti-inflammatory campesterol derivative from genetically transformed hairy roots of <i>Lopezia racemosa</i> Cav. (Onagraceae).	Moreno-Anzúrez, N.E.; Marquina, S.; Alvarez, L.; Zamilpa, A.; Castillo-España, P.; Perea-Arango, I.; Torres, P.N.; Herrera-Ruiz, M.; Díaz García, E.R.; García, J.T.; Arellano-García, J.	<i>Molecules</i> . Volume 22, Issue 1, January 2017, Article number 118.	CIQ	DOI 10.3390/molecules22010118

12	Study of dual electrochromic devices based on polyaniline and poly (3-hexylthiophene) thin films.	Medrano-Solís, A., Nicho, M.E. , Hernández-Guzmán, F.	<i>Journal of Materials Science: Materials in Electronics</i> . Volume 28, Issue 3, 1 February 2017, Pages 2471-2480.	CIICAp	DOI 10.1007/s10854-016-5820-7
13	Synthetic peptide antigens derived from long-chain alpha-neurotoxins: Immunogenicity effect against elapid venoms	de la Rosa, G., Pastor, N. , Alagón, A., Corzo, G.	Peptides, Volume 88, 1 February 2017, Pages 80-86	CIDC	DOI 10.1016/j.peptides.2016.12.006
14	Electron Raman scattering in a double quantum well tuned by an external nonresonant intense laser field.	Tiutiunnyk, A. Mora-Ramos, M.E. Morales, A.L, Duque, C.M. Restrepo, R.L. Ugan, F. Martínez-Orozco, J.C. Kasapoglu, E. Duque, C.A.	<i>Optical Materials</i> . Volume 64, 1 February 2017, Pages 496-501	CInC	DOI 10.1016/j.optmat.2017.01.001
15	EIS Behavior of Experimental High-Strength Steel in Near-Neutral pH and Load Conditions.	Barraza-Fierro, J.I. Serna-Barquera, S.A. Campillo-Illanes, B.F., Castaneda, H.	<i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> . 6 February 2017, Pages 1-15.	CIICAp	DOI 10.1007/s11661-017-3973-5 Document Type: Article in Press
16	Carrier states and optical response in core-shell-like semiconductor nanostructures.	Duque, C.M. Mora-Ramos, M.E. Duque, C.A,	<i>Philosophical Magazine</i> . Volume 97, Issue 5, 11 February 2017, Pages 368-388.	CInC	DOI 10.1080/14786435.2016.1260176
17	Nuclear-relaxed elastic and piezoelectric constants of materials: Computational aspects of two quantum-mechanical approaches.	Erba, A. Caglioti, D. Zicovich-Wilson, C.M. Dovesi, R.	<i>Journal of Computational Chemistry</i> . Volume 38, Issue 5, 15 February 2017, Pages 257-264.	CInC	DOI 10.1002/jcc.24687
18	Photoelectrocatalytic inactivation of fecal coliform bacteria in urban wastewater using nanoparticulated films of TiO ₂ and TiO ₂ /Ag.	Domínguez-Espindola, R.B. Varia, J.C. Álvarez-Gallegos, A. Ortiz-Hernández, M.L. Peña-Camacho, J.L. Silva-Martínez, S.	<i>Environmental Technology (United Kingdom)</i> , Volume 38, Issue 5, 4 March 2017, Pages 606-614	CIICAp	DOI 10.1080/09593330.2016.1205148
19	The optical Anderson localization in three-dimensional percolation system.	Burlak, G. , Martínez-Sánchez, E.	<i>Optics Communications</i> . Volume 387, 15 March 2017, Pages 426-431	CIICAp	DOI 10.1016/j.optcom.2016.10.068
20	Experimental study of dynamic porosity and its effects on simulation of the coffee beans roasting.	Oliveros, N.O. Hernández, J.A. Sierra-Espinosa, F.Z. Guardián-Tapia, R. Pliego-Solórzano, R.	<i>Journal of Food Engineering</i> . Volume 199, 1 April 2017, Pages 100-112	CIICAp	DOI 10.1016/j.jfoodeng.2016.12.012
21	Electrospinning of P3HT-PEO-CdS fibers by solution method and their properties.	Hernández-Martínez, D., Nicho, M.E. , Hu, H., León-Silva, U., Arenas-Arrocena, M.C., García-Escobar, C.H.	<i>Materials Science in Semiconductor Processing</i> . Volume 61, 1 April 2017, Pages 50-56.	CIICAp	DOI: 10.1016/j.mssp.2016.12.039
22	Multi-shell spherical GaAs/Al _x Ga _{1-x} As quantum dot shells-size distribution as a mechanism to generate intermediate band energy levels.	Rodríguez-Magdaleno, K.A. Pérez-Álvarez, R. Martínez-Orozco, J.C. Pernas-Salomón, R.	<i>Physica E: Low-Dimensional Systems and Nanostructures</i> , Volume 88, 1 April 2017, Pages 142-148.	CInC	DOI 10.1016/j.physe.2017.01.007
23	A physical model for dementia.	Sotolongo-Costa, O. Gaggero-Sager, L.M. Becker, J.T., Maestu, F. Sotolongo-Grau, O.	<i>Physica A: Statistical Mechanics and its Applications</i> . Volume 472, 15 April 2017, Pages 86-93.	CInC-CIICAp	DOI 10.1016/j.physa.2016.12.086
24	Structural analysis of pyridine-imino boronic esters involving secondary interactions on solid state.	Sánchez-Portillo, P. Arenaza-Corona, A. Hernández-Ahuactzi, I.F., Barba, V.	<i>Journal of Molecular Structure</i> . Volume 1134, 15 April 2017, Pages 435-443.	CIQ	DOI 10.1016/j.molstruc.2017.01.013
25	The electrochemical behavior and heat removal study during the solidification process of an al-base alloy.	Pérez, O.R. Sotelo, O. Vázquez, M. Valdez, S.	<i>International Journal of Electrochemical Science</i> . Volume 12, Issue 1, 2017, Pages 733-746 Open Access.	CIICAp	DOI 10.20964/2017.01.55

26	Donor impurity states in semiconductor zincblende nitride quantum systems as a source of nonlinear optical response.	Correa, J.D.; Mora-Ramos, M.E. , Duque, C.A.	<i>Journal of Nanoscience and Nanotechnology</i> . Volume 17, Issue 2, 2017, Pages 1517-1524.	CInC	DOI 10.1166/jnn.2017.13062
27	Effects of hydrostatic pressure and electric field on the electron-related optical properties in GaAs multiple quantum well.	Ospina, D.A., Mora-Ramos, M.E. , Duque, C. A.	<i>Journal of Nanoscience and Nanotechnology</i> . Volume 17, Issue 2, 2017, Pages 1247-1254.	CInC	DOI 10.1166/jnn.2017.12567
28	Electron Raman scattering and Raman gain in pyramidal semiconductor quantum dots.	Monsalve-Calderón, K.; Gil-Corrales, A.; Morales, A.L.; Restrepo, R.L.; Mora-Ramos, M.E. ; Duque, C.A.	<i>Journal of Nanoscience and Nanotechnology</i> . Volume 17, Issue 2, 2017, Pages 1140-1148	CInC	DOI 10.1166/jnn.2017.12657
29	Flexibility in biopharmaceutical manufacturing using particle swarm algorithms and genetic algorithms.	El Hamzaoui, Y.; Bassam, A.; Abatal, M, Rodríguez, J.A. , Duarte-Villaseñor, M.A.; Escobedo, L.; Puga, S.A.;	<i>Studies in Computational Intelligence</i> . Volume 663, 2017, Pages 149-171.	CICAp	DOI 10.1007/978-3-319-44003-3_7
30	The endoplasmic reticulum alpha-glycosidases as potential targets for virus control.	Pérez-García, L.A, Martínez-Duncker, I. ; Mora-Montes, H.M.;	<i>Current Protein and Peptide Science</i> . Volume 18, Issue 2, 2017.	CIDC	DOI 10.2174/1389203717666160813161729
31	The index of weighted singular integral operators with shifts and slowly oscillating data.	Karlovich, A.Y., Karlovich, Y.I. , Lebre, A.B.	<i>Journal of Mathematical Analysis and Applications</i> . Volume 450, Issue 1, 1 June 2017, Pages 606-630	CInC	doi.org/10.1016/j.jmaa.2017.01.052
32	Synthesis, crystal structures and coordination modes of some triorganotin(IV) complexes with 2-N-propyl and 2-N-benzyl-amino-1-cyclopentene-1-dithiocarboxylates.	López-Cardoso, M. ; Vargas-Pineda, G. ; Román-Bravo, P.P. ; Rodríguez-Narváez, C. ; Rosas-Valdez, E.; Cea-Olivares, R.	<i>Journal of Molecular Structure</i> . Volume 1116, 1 July 2016, Pages 116-121	CIQ	DOI 10.1016/j.molstruc.2016.03.010
33	Synthesis, antimycobacterial and cytotoxic activity of α,β-unsaturated amides and 2,4-disubstituted oxazoline derivatives	Francisco G. Avalos-Alanís, Eugenio Hernández-Fernández, Pilar Carranza-Rosales, Susana López-Cortina, Jorge Hernández-Fernández, Mario Ordóñez , Nancy E. Guzmán-Delgado, Alejandro Morales-Vargas, Víctor M. Velázquez-Moreno, María G. Santiago-Mauricio.	<i>Bioorganic & Medicinal Chemistry Letter</i> . 2017, 27, 821-825.	CIQ	doi.org/10.1016/j.bmcl.2017.01.024
34	Stereoselective synthesis of α-amino-H-phosphinic acids and derivatives	Ordóñez, M.; Viveros-Ceballos, J. L.; Sayago, F. J.; Cativiela, C.	<i>Synthesis</i> 2017, 49, 987-997.	CIQ	DOI: 10.1055/s-0036-1588617