

ARTÍCULOS PUBLICADOS DEL 15 DE MARZO DE 2017- 15 DE MAYO DE 2017
Investigadores y estudiantes del IICBA

N°	TÍTULO	AUTORES	PUBLICACIÓN	CENTRO DE INV.	DOI
1	Unraveling self-assembly pathways of the 468-kDa proteolytic machine TET2	Macek P., Kerfah R., Erba EB., Crublete E., Moriscot C, Schoehn G, Amero C , Boisbouvier J	Science Advances AAAS, 3:e1601601	CIQ	https://doi.org/10.1126/sciadv.1601601
2	Parneix, P.*; Gamboa, A.; Falvo, C.; Bonnin, M. A.; Pino, T.; Calvo, F. Dehydrogenation Effects on the Stability of Aromatic Units in Polycyclic Aromatic Hydrocarbons in the Interstellar Medium: A Computational Study at Finite Temperature.	Parneix, P.*; Gamboa, A. ; Falvo, C.; Bonnin, M. A.; Pino, T.; Calvo, F.	Molecular Astrophysics Volume 7,, Pages 9–18	CIQ	https://doi.org/10.1016/j.molap.2017.05.001
3	Phase relations in the pseudobinary systems RAO3-R2Ti2O7 (R: rare earth element and Y, A: Fe, Ga, Al, Cr and Mn) and syntheses of new compounds R(A1-xTix)O3+x/2 (2/3≤x≤3/4) at elevated temperatures in air	Brown, F., Jacobo-Herrera, I., Alvarez-Montaño, V., Kimizuka, N., Kurashina, K., Michiue, Y., Matsuo, Y., Mori, S., Ikeda, N., Medrano, F.	Journal of Solid State Chemistry 251, pp. 131-142	CIQ	https://doi.org/10.1016/j.jssc.2017.04.001
4	Structural Induction via Solvent Variation in Assemblies of Triphenylboroxine and Piperazine—Potential Application as Self-Assembly Molecular Sponge.	Torres-Huerta, A.; Velásquez-Hernández, M. de J.; Martínez-Otero, D.; Höpfel, H. ; Jancik, V.	Cryst. Growth Des. 2017, 17 (5), 2438–2452	CIQ	https://doi.org/10.1021/acs.cgd.6b01845
5	Synthetic studies on the preparation of [Mn(CO)3{P(OR)3}{κ2-S,S'-Ph2P(S)NP(S)Ph2}], R = Ph, Et	Capulín-Flores, L.; Reyes-Camacho, O.; Reyes-Lezama, M.; Höpfel, H. ; Zúñiga-Villarreal, N	Journal of Organometallic Chemistry Volume 842, 1 August 2017, Pages 59–66	CIQ	https://doi.org/10.1016/j.jorganchem.2017.05.017

6	Straightforward synthesis of a novel chiron and its application to the synthesis of (-)-1,4-dideoxymannojirimycin and further polyoxygenated 2-piperidones	E. Ramírez, R. L. Meza-León, L. Quintero, H. Höpfl , S. Cruz-Gregorio,* F. Sartillo-Piscil.	ChemistrySelect Volume 2, Issue 1 Pages 546–549	CIQ	https://doi.org/10.1002/slct.201602048
7	Synthesis, characterization, crystal structures and supramolecular features of bicycloazastannoxides derived from Schiff bases with L-tyrosine	Basu Baul, T.S., Kehie, P., Duthie, A., Wang, R., Englert, U., Höpfl, H.	Journal of Organometallic Chemistry 828, pp. 96-105	CIQ	https://doi.org/10.1016/j.jorganchem.2016.11.028
8	Dinuclear organotin(IV) coordination polymers derived from Schiff bases with L-aspartic acid	Basu Baul, T.S., Kehie, P., Duthie, A., Höpfl, H.	Journal of Organometallic Chemistry 838, pp. 24-36	CIQ	https://doi.org/10.1016/j.jorganchem.2017.03.016
9	Microwave assisted Suzuki-Miyaura and Mizoroki-Heck cross-couplings catalyzed by non-symmetric Pd(II) CNS pincers supported by iminophosphorane ligands	Ramírez-Rave, S., Morales-Morales, D., Grévy, J.-M.	Inorganica Chimica Acta 462, pp. 249-255	CIQ	https://doi.org/10.1016/j.ica.2017.03.044
10	Nature of the valence excited states of bromine in the T and P clathrate cages	Batista-Romero, F.A., Gamboa-Suárez, A., Hernández-Lamonedá, R., Janda, K.C.	Journal of Chemical Physics 146(14),144311	CIQ	http://dx.doi.org/10.1063/1.4979909
11	Discovery of new dual PPAR γ -GPR40 agonists with robust antidiabetic activity: Design, synthesis and in combo drug evaluation	Hidalgo-Figueroa, S., Navarrete-Vázquez, G., Estrada-Soto, S., Giles-Rivas, D., Alarcón-Aguilar, F.J., León-Rivera, I. , Giacomán-Martínez, A., Miranda Pérez, E., Almanza-Pérez, J.C.	Biomedicine and Pharmacotherapy 90, pp. 53-61	CIQ	https://doi.org/10.1016/j.biopha.2017.03.033
12	Antinociceptive effect of natural and synthetic alkaloids involves TRPV1 receptors	de la Rosa-Lugo, V., Acevedo-Quiroz, M., Déciga-Campos, M., Rios, M.Y.	Journal of Pharmacy and Pharmacology. Article in Press	CIQ	https://doi.org/10.1111/jphp.12721
13	Synthesis and characterization of the first Te(IV) organometallic complexes with azepane-1-carbodithioate	Cotero-Villegas, A.M., Moya-Cabrera, M., Jancik, V., Pérez-Redondo, M.D.C., Martínez-Salas, P. , Cea-Olivares, R.	Phosphorus, Sulfur and Silicon and the Related Elements 192(3), pp. 338-343	CIQ	http://dx.doi.org/10.1080/10426507.2016.1238472
14	Non-racemic mixture model: A computational approach	Polanco, C., Buhse, T.	Acta Biochimica Polonica 64(1), pp. 17-19 Open Access	CIQ	https://doi.org/10.18388/abp.2016_1119

15	The polar profile of ancient proteins: A computational extrapolation from prebiotics to paleobiochemistry	Polanco, C., Buhse, T. , Vizcaíno, G., Picciotto, J.L.	Acta Biochimica Polonica 64(1), pp. 117-122 Open Access	CIQ	https://doi.org/10.18388/abp.2016_1311
16	Electronegativity and intrinsic disorder of preeclampsia-related proteins	Polanco, C., Castañón-González, J.A., Uversky, V.N., Buhse, T. , Mendoza, J.L.S., Calva, J.J.	Acta Biochimica Polonica 64(1), pp. 99-111 Open Access	CIQ	https://doi.org/10.18388/abp.2016_1300
17	Porous silicon pillar and bilayer structure as a nucleation center for the formation of aligned vanadium pentoxide nanorods	Salazar-Kuri, U., Antúnez, E.E., Estevez, J.O., Olive-Méndez, S.F., Silva-González, N.R., Agarwal, V.	Ceramics International 43(11), pp. 8023-8030	CIICAp	https://doi.org/10.1016/j.ceramint.2017.03.114
18	Measurement of the viscosity of biodiesel by using an optical viscometer	Camas-Anzueto, J.L., Gómez-Pérez, J., Meza-Gordillo, R., Anzueto-Sánchez, G. , Pérez-Patricio, M., López-Estrada, F.R., Abud-Archila, M., Ríos-Rojas, C.	Flow Measurement and Instrumentation 54, pp. 82-87	CIICAp	https://doi.org/10.1016/j.flowmeasinst.2016.12.004
19	General methodology for using Epanet as an optimization element in evolutionary algorithms in a grid computing environment for water distribution network design	Avila-Melgar, E.Y., Cruz-Chávez, M.A. , Martínez-Bahena, B.	Water Science and Technology: Water Supply 17(1), pp. 39-51	CIICAp	https://doi.org/10.2166/ws.2016.101
20	Amplification of space charge waves in n-InN films of THz range	Foltides, E.J., Grimalsky, V. , Koshevaya, S. , Escobedo-Alatorre, J.	LAMC 2016 - IEEE MTT-S Latin America Microwave Conference 7851269	CIICAp	https://doi.org/10.1109/LAMC.2016.7851269
21	Experimental data and numerical predictions of a single-phase flow in a batch square stirred tank reactor with a rotating cylinder agitator	Escamilla-Ruiz, I.A., Sierra-Espinosa, F.Z., García, J.C. , Valera-Medina, A., Carrillo, F.	Heat and Mass Transfer/Waerme- und Stoffuebertragung pp. 1-17 Article in Press	CIICAp	https://doi.org/10.1007/s00231-017-2030-7

22	Physicochemical and luminescent properties of copolymers composed of three monomers: polythiophenes based on 3-hexylthiophene and 3,4-ethylendioxiithiophene.	Ramírez-Gómez M., Guzmán-Rabadán, K., González-Juárez, E. Güizado-Rodríguez , M., Ramos-Ortiz, G., Alba-Rosales, J., Panzo-Medrano, H., Barba, V., Rodríguez, M., JMaldonado, J., Basurto-Pensado, M.A.	International Journal of Polymer Science, volume 2017, article ID 1918602, 11 pages.	CIICAp	https://doi.org/10.1155/2017/1918602
23	Resonant excitations of the giant second harmonic in dielectric-graphene metamaterials	Rapoport, Y., Grimalsky, V. , Lavrinenko, A., Boardman, A.	Proceedings of the International Conference on Advanced Optoelectronics and Lasers, CAOL 7851377, pp. 64-66	CIICAp	http://dx.doi.org/10.1109/CAOL.2016.7851377
24	Mechanosynthesis of hydroxyapatite–ferrite composite nanopowder	Vlasova, M. , Fedotov, A., Mendoza Torrez, I., Kakazey, M. , Komlev, V., Marquez Aguilar, P.A.	Ceramics International 43(8), pp. 6221-6231	CIICAp	https://doi.org/10.1016/j.ceramint.2017.02.020
25	EIS Behavior of Experimental High-Strength Steel in Near-Neutral pH and Load Conditions	Barraza-Fierro, J.I., Serna-Barquera, S.A. , Campillo-Illanes	Metallurgical and Materials Transactions A, 48 (4), pp 1944–1958	CIICAp	https://doi.org/10.1007/s11661-017-3973-5
26	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.	International Journal of Hydrogen Energy 42(1), pp. 689-698	CIICAp	https://doi.org/10.1016/j.ijhydene.2016.10.103
27	Comparative analysis of the fatigue short crack growth on Al 6061-T6 alloy by the exponential crack growth equation and a proposed empirical model	Mayén, J., Abúndez, A., Pereyra, I., Colín, J., Blanco, A., Serna, S.	Engineering Fracture Mechanics 177, pp. 203-217	CIICAp	https://doi.org/10.1016/j.engfracmech.2017.03.036

28	Simple screening protocol for identification of potential mycoremediation tools for the elimination of polycyclic aromatic hydrocarbons and phenols from hyperalkalophile industrial effluents	Batista-García, R.A. , Kumar, V.V., Ariste, A., Tovar-Herrera, O.E., Savary, O., Peidro-Guzmán, H., González-Abradelo, D., Jackson, S.A., Dobson, A.D.W., Sánchez-Carbente, M.D.R., Folch-Mallol, J.L., Leduc, R., Cabana, H.	Journal of Environmental Management 198, pp. 1-11	CIDC	https://doi.org/10.1016/j.jenvman.2017.05.010
29	Characterization of lignocellulolytic activities from fungi isolated from the deep-sea sponge <i>Stelletta normani</i>	Batista-García, R.A. , Sutton, T., Jackson, S.A., Tovar-Herrera, O.E., Balcázar-López, E., Sánchez-Carbente, M.D.R., Sánchez-Reyes, A., Dobson, A.D.W. , Folch-Mallol, J.L.	PLoS ONE 12(3),e0173750 Open Access	CIDC	https://doi.org/10.1371/journal.pone.0173750
30	A family 13 thioesterase isolated from an activated sludge metagenome: Insights into aromatic compounds metabolism	Sánchez-Reyez, A., Batista-García, R.A. , Valdés-García, G., Ortiz, E., Perezgasga, L., Zárate-Romero, A., Pastor, N. , Folch-Mallol, J.L.	Proteins: Structure, Function and Bioinformatics Article in Press	CIDC	https://doi.org/10.1002/prot.25282
31	The first description of a hormone-sensitive lipase from a basidiomycete: Structural insights and biochemical characterization revealed <i>Bjerkandera adusta</i> BaEstB as a novel esterase	Sánchez-Carbente, M.d.R., Batista-García, R.A. , Sánchez-Reyes, A., Escudero-García, A., Morales-Herrera, C., Cuervo-Soto, L.I., French-Pacheco, L., Fernández-Silva, A., Amero, C. , Castillo, E., Folch-Mallol, J.L.	MicrobiologyOpen Article in Press Open Access	CIDC-CIQ	https://doi.org/10.1002/mbo3.463
32	Born-Oppenheimer molecular dynamics studies of Pb(ii) micro hydrated gas phase clusters	León-Pimentel, C.I., Amaro-Estrada, J.I., Saint-Martin, H., Ramírez-Solís, A.	Journal of Chemical Physics 146(8),084307	CInC	http://dx.doi.org/10.1063/1.4976686
33	How do I sound like? forward models for robot ego-noise prediction	Pico, A., Schillaci, G., Hafner, V.V., Lara, B.	2016 Joint IEEE International Conference on Development and Learning and Epigenetic Robotics, ICDL-EpiRob 2016 7846826, pp. 246-251	CInC	https://doi.org/10.1109/DEVLRN.2016.7846826

34	The Haseman boundary value problem with slowly oscillating coefficients and shifts	Karlovich, Y.I.	Operator Theory: Advances and Applications 259, pp. 463-500	CInC	https://doi.org/10.1007/978-3-319-49182-0_19
35	C* -Algebras of Poly-Bergman Type Operators Over Sectors	Karlovich, Y.I.	Integral Equations and Operator Theory 87(3), pp. 435-460	CInC	https://doi.org/10.1007/s00020-017-2355-0
36	Erratum to: Quality control in geochemistry from a comparison of four central tendency and five dispersion estimators and example of a geochemical reference material.	Verma, S.P., Díaz-González, L., Pérez-Garza, J.A., Rosales-Rivera, M.	Arabian Journal of Geosciences 10(2),24	CInC	http://dx.doi.org/10.1007/s12517-016-2764-4
37	Donor impurity-related photoionization cross section in GaAs cone-like quantum dots under applied electric field	Iqraoun, E., Sali, A., Rezzouk, A., Feddi, E., Dujardin, F., Mora-Ramos, M.E., Duque, C.A.	Philosophical Magazine pp. 1-19 Article in Press	CInC	http://dx.doi.org/10.1080/14786435.2017.1302613
38	Background impurities in Si0.8 Ge0.2/Si/Si0.8 Ge0.2 n-type δ -doped QW	Tulupenko, V. , Duque, C.A., Morales, A.L., Tiutiunnyk, A., Demediuk, R., Dmytrychenko, T., Fomina, O., Akimov, V., Restrepo, R.L., Mora-Ramos, M.E.	Physica Status Solidi (B) Basic Research 254(4),1600464	CInC	http://doi.org/10.1002/pssb.201600464
39	Effects of external electric field on the optical and electronic properties of blue phosphorene nanoribbons: A DFT study	Ospina, D.A., Duque, C.A., Mora-Ramos, M.E., Correa, J.D.	Computational Materials Science 135, pp. 43-53	CInC	https://doi.org/10.1016/j.commatsci.2017.03.048
40	Entropy, Earthquakes, and Tumors	Sotolongo-Costa O.	First Complex Systems Digital Campus World E-Conference 2015, pp. 245-253	CInC	https://doi.org/10.1007/978-3-319-45901-1_44

41	Structural Derivative Model for Tissue Radiation Response	Weberszpil J. , Sotolongo-Costa O.	Journal of advances in physics , v. 13, n. 4, p. 4779-4785.	CInC	https://doi.org/10.24297/jap.v13i4.5980
42	Self-similar conductance patterns in graphene Cantor-like structures	García-Cervantes, H., Gaggero-Sager, L.M. , Dláz-Guerrero, D.S., Sotolongo-Costa, O. , Rodríguez-Vargas, I.	Scientific Reports 7(1),617 Open Access	CInC	https://doi.org/10.1038/s41598-017-00611-z
43	Scarce defects induce anomalous diffusion	Hidalgo-Soria, M., Salgado-García, R.	Journal of Statistical Mechanics: Theory and Experiment 2017(4),043301	CInC	https://doi.org/10.1088/1742-5468/aa6505