

ARTÍCULOS PUBLICADOS DEL 15 DE MAYO DE 2017- 15 DE JUNIO DE 2017

Investigadores y estudiantes del IICBA

N°	TÍTULO	AUTORES	PUBLICACIÓN	CENTRO DE INV.	DOI
1	Reactive oxygen species dynamics in developing zebrafish embryos	Mendieta-Serranoa M., Méndez-Cruza F.J., Cárdenasa L., Antúnez-Mojicab M., Alvarez L. , Schnabel-Perazaa D., Lomelía H., Salas-Vídala E.	Mechanisms of Development, Volume 145, Supplement, July 2017, Page S66	CIQ	https://doi.org/10.1016/j.mod.2017.04.147
2	Antigiardial Activity of Podophyllotoxin-Type Lignans from <i>Bursera fagaroides</i> var. <i>Fagaroides</i>	Gutiérrez-Gutiérrez, F., Puebla-Pérez, A.M., González-Pozos, S., Hernández-Hernández, J.M., Pérez-Rangel, A., Alvarez, L.P. , Tapia-Pastrana, G., Castillo-Romero, A	Molecules 22(5),799 Open Access	CIQ	https://doi.org/10.3390/molecules22050799
3	Displacers improve the selectivity of phosphopeptide enrichment by metal oxide affinity chromatography	Herrera, Y., Contreras, S., Hernández, M., Álvarez, L. , Mora, Y., Encarnación-Guevara, S.	Boletin Medico del Hospital Infantil de Mexico Articles not published yet, but available online Article in Press	CIQ	https://doi.org/10.1016/j.bmhmx.2017.03.008
4	Developing Transdermal Applications of Ketorolac Tromethamine Entrapped in Stimuli Sensitive Block Copolymer Hydrogels	Mallandrich, M., Fernández-Campos, F., Clares, B., Halbaut, L., Alonso, C., Coderch, L., Garduño-Ramírez, M.L. , Andrade, B., Del Pozo, A., Lane, M.E., Calpena, A.C.	Pharmaceutical Research pp. 1-13 Article in Press	CIQ	https://doi.org/10.1007/s11095-017-2181-8
5	Synthetic studies on the preparation of $[Mn(CO)_3\{P(OR)_3\}_2]^{2+}$ - $S_2S'^-$ - $Ph_2P(S)NP(S)Ph_2$, R = Ph, Et	Capulín-Flores, L., Reyes-Camacho, O., Reyes-Lezama, M., Höpfel, H. , Zúñiga-Villarreal, N.	Journal of Organometallic Chemistry 842 pp. 59 - 66 .	CIQ	https://doi.org/10.1016/j.jorgchem.2017.05.017
6	Establishment of callus and cell suspension cultures of <i>Eysenhardtia polystachya</i> (Ortega) and fungistatic activity of their extracts	Bernabé-Antonio, A., Maldonado-Magaña, A. , Ramírez-López, C.B., Salcedo-Pérez, E., Meza-Contreras, J.C., González-García, Y., López-Dellamary Toral, F.A., Cruz-Sosa, F.	South African Journal of Botany , 112 pp. 40 - 47 .South African Journal of Botany ,	CIQ	https://doi.org/10.1016/j.sajb.2017.05.023
7	Phenolic compounds isolated from <i>Caesalpinia coriaria</i> induce S and G2/M phase cell cycle arrest differentially and trigger cell death by interfering with microtubule dynamics in cancer cell lines	Sánchez-Carranza, J.N., Alvarez, L., Marquina-Bahena, S. , Salas-Vidal, E., Cuevas, V., Jiménez, E.W., Veloz, G.R.A., Carraz, M., González-Maya, L.a	Molecules 22(4),666 Open Access	CIQ	https://doi.org/10.3390/molecules22040666
8	Stereoselective Synthesis of alpha-Amino-H-phosphinic Acids and Derivatives	Ordóñez, M ; Viveros-Ceballos, JL ; Sayago, FJ ; Cativiela, C	SYNTHESIS-STUTT GART Volumen: 49 Número: 5 Páginas: 987-997	CIQ	https://doi.org/10.1055/s-0036-1588617
9	Discovery of new dual PPAR gamma-GPR40 agonists with robust antidiabetic activity: Design, synthesis and in combo drug evaluation	Hidalgo-Figueroa, S ; Navarrete-Vazquez, G; Estrada-Soto, S ; Giles-Rivas, D ; Alarcon-Aguilar, FJ ; Leon-Rivera, I ; Giacomán-Martínez, A ; Pérez, EM ; Almanza-Pérez, JC	BIOMEDICINE & PHARMACOTHERAPY Volumen: 90 Páginas: 53-61	CIQ	https://doi.org/10.1016/j.biopha.2017.03.033

10	Design, synthesis and biological evaluation of 2-(2-amino-5(6)-nitro-1H-benzimidazol-1-yl)-narylacetamides as antiprotozoal agents	Hernández-Núñez, E., Tlahuext, H. , Moo-Puc, R., Moreno, D., González-Díaz, M.O., Vázquez, G.N.	Molecules 22(4),579 Open Access	CIQ	https://doi.org/10.3390/molecules22040579
11	Aluminum strain measurement by beam propagation	Heredia, A.S., Aguilar, P.A.M. , Ocampo, A.M.	Conference Proceedings of the Society for Experimental Mechanics Series 2017-January, pp. 7-18	CIICap	https://doi.org/10.1007/978-3-319-28513-9_2
12	Facet-dependent electric-field-induced second harmonic generation in silicon and zincblende	Alejo-Molina, A. , Hardhienata, H., Márquez-Aguilar, P.A. , Hingerl, K.	Journal of the Optical Society of America B: Optical Physics 34(6), pp. 1107-1114	CIICap	https://doi.org/10.1364/JOSAB.34.001107
13	UV-LEDs assisted peroxymonosulfate/Fe ²⁺ for oxidative removal of carmoisine: The effect of chloride ion	Ahmadi, M., Ghanbari, F., Alvarez, A. , Martínez, S.S.	Korean Journal of Chemical Engineering pp. 1-8	CIICap	https://doi.org/10.1007/s11814-017-0122-1
14	Accelerated simulated annealing algorithm applied to the flexible job shop scheduling problem	Cruz-Chávez, M.A. , Martínez-Rangel, M.G., Cruz-Rosales, M.H.	International Transactions in Operational Research 24(5), pp. 1119-1137	CIICap	https://doi.org/10.1111/itor.12195
15	Quantification of slow mechanical displacements in metal samples by optical polarization phase shift DSPI	Cruz, D.M. , Salgado, J.A.M., Núñez, V.M.J., Lara, Á.Z.	Conference Proceedings of the Society for Experimental Mechanics Series 2017-January, pp. 49-54	CIICap	https://doi.org/10.1007/978-3-319-28513-9_7
16	Performance analysis of a dual component evaporator-absorber of an absorption heat transformer	Delgado-Gonzaga, J. , Huicochea, A. , Torres-Merino, J., Canela-Sánchez, I. , Juárez-Romero, D.	Desalination and Water Treatment 73, pp. 175-184	CIICap	https://doi.org/10.5004/dwt.2017.20543
17	Performance of pig slurry based microbial fuel cell during energy recovery and waste treatment	Estrada-Arriaga, E.B., Bahena-Bahena, E.O., García-Sánchez, L., González-Rodríguez, J.G	Desalination and Water Treatment 64, pp. 31-39	CIICap	https://doi.org/10.5004/dwt.2017.20165
18	Heat transfer prediction on flat solar collectors for the water purification system integrated to an absorption heat transformer	Hernández, T., Pérez, S.G., Flores, O.aEmail Author, Hernández, J.A. , Juárez-Romero, D. , Álvarez, A. , Huicochea, A. , Galaviz-Rodríguez, J.V.	Desalination and Water Treatment 73, pp. 64-72	CIICap	https://doi.org/10.5004/dwt.2017.0742
19	Optimal operating condition for a type parabolic trough collector with low-cost components using inverse neural network and solved by genetic algorithm	Reyes-Téllez, E.D., Conde-Gutiérrez, R.A., Hernández, J.A. , Cardoso, E., Silva-Martínez, S. , Sierra, F.Z. , Cortés-Aburto, O	Desalination and Water Treatment 73, pp. 80-89	CIICap	https://doi.org/10.5004/dwt.2017.20356
20	Criteria for improving the traditional artificial neural network methodology applied to predict COP for a heat transformer	Martínez-Martínez, E., Escobedo-Trujillo, B.A., Colorado, D., Morales, L.I., Huicochea, A. , Hernández, J.A. , Siqueiros, J.	Desalination and Water Treatment 73, pp. 90-100	CIICap	https://doi.org/10.5004/dwt.2017.20357

21	Fatty Amides from Crude Rice Bran Oil as Green Corrosion Inhibitors	Reyes-Dorantes, E., Zuñiga-Díaz, J., Quinto-Hernandez, A., Porcayo-Calderon, J., Gonzalez-Rodriguez, J.G. , Martinez-Gomez, L	Journal of Chemistry , 2017 , art. no. 2871034	CIICAp	https://doi.org/10.1155/2017/2871034
22	Experimental assessment of a hydrophobic membrane-based desorber/condenser with H2O/LiBr mixture for absorption systems	Ibarra-Bahena, J., Dehesa-Carrasco, U., Romero, R.J. , Rivas-Herrera, B., Rivera, W.	Experimental Thermal and Fluid Science , 88 pp. 145 - 159 .	CIICAp	https://doi.org/10.1016/j.exptthermfluisci.2017.05.024
23	In-situ synthesis by Grignard Metathesis of poly(3-hexylthiophene) in presence of CdS and their properties	Hernández-Guzmán, F., Nicho-Díaz, M.E., Medrano-Solís, A. , Altuzar-Coello, P.	European Polymer Journal 90, pp. 407-417	CIICAp	https://doi.org/10.1016/j.eurpolymj.2017.03.040
24	Holographic recording mechanism in albumin films with iron ions	Ordóñez-Padilla M. J. , Olivares-Pérez A., Palillero-Sandoval O.	Proc. SPIE 10127, Practical Holography XXXI: Materials and Applications, 101270R (April 6, 2017)	CIICAp	https://doi.org/10.1117/12.2249674
25	Synthesis of a nanostructured al-cu powder alloy with additions of tic particles by mechanical alloying and ball milling – mathematical modelling of microstructure	Gaona-Jimenez, S., Rodríguez-Díaz, R.A., Sedano, A., Porcayo-Calderon, J., Ocampo, A. M., Serna-Barquera, S. , Olarte-Cortes, J. O., Juárez-Islas, J. A.	Digest Journal of Nanomaterials and Biostructures Vol. 12, No. 2, April - June 2017, p. 449 - 462	CIICAp	http://www.chalcogen.ro/449_GaonaJ.pdf
26	Simulation and experimental validation of Taylor-Couette flow in square cross-section container for water treatment reactor	Sierra-Espinosa, F.Z. , Escamilla-Ruiz, I.A., Rodríguez, M.L., Álvarez-Gallegos, A. , Carrillo, F., Teloxa, J.c	Desalination and Water Treatment 73, pp. 353-372	CIICAp	https://doi.org/10.5004/dwt.2017.20707
27	Experimental study of inlet effects on mass transport in electrochemical filter–press parallel reactors	Rodríguez, G., Sierra-Espinosa, F.Z. , Álvarez, A., Carrillo, F.	Desalination and Water Treatment 73, pp. 127-136	CIICAp	https://doi.org/10.5004/dwt.2017.20374
28	Prediction of cathodic Cu ²⁺ -reduction in a laboratory filter-press electrolyser by computational fluid dynamics modelling	Navarro, H.I., Silva-Martínez, S., Hernández, J.A., Sierra, F.Z., Alvarez-Gallegos, A.	Desalination and Water Treatment 61, pp. 284-292	CIICAp	https://doi.org/10.5004/dwt.2016.11035
29	Evaluation of the productivity of geothermal wells by analyzing production measurements and the damage effect	Aragón-Aguilar, A., Santoyo-Castelazo, E., Santoyo, E.	International Journal of Energy Research 41(6), pp. 817-828	CIICAp	https://doi.org/10.1002/er.3667
30	A 3-D wellbore simulator (WELLTHER-SIM) to determine the thermal diffusivity of rock-formations	Wong-Loya, J.A., Santoyo, E. , Andaverde, J.	Computers and Geosciences 103, pp. 204-214	CIICAp	https://doi.org/10.1016/j.cageo.2017.03.016
31	A New Way to Promote Economic Development in Mexico: The Technology Parks of the Tecnológico de Monterrey.	Santillán M., Echenique X., Tecpoyotl M., R. Casolco S.	International Review of Social Sciences, Vol. 5 Issue.5 pp. 301-322	CIICAp	

32	The Knowledge Economy in Mexico and the Role of Monterrey. Institute of Technology and Higher Education Technology Parks.	Santillán M., Echenique X., Tecpoyotl-Torres M., R. Casolco S.	International Review of Social Sciences, Vol. 5 Issue.2 pp. 178-196	CIICAp	
33	Effect of methanol on the corrosion behaviour of Al-Cu Alloys in sulphuric acid	Vergara-Juarez, F., Rosales-Cadena, I., Salinas-Bravo, V.M, Lucio-García, M.A., Porcayo-Calderon, J.a, Gonzalez-Rodriguez, J.G, Martinez-Gomez, L.	Corrosion Engineering Science and Technology pp. 1-8	CIICAp	https://doi.org/10.1080/1478422X.2017.1335531
34	Mechanosynthesis of hydroxyapatite-ferrite composite nanopowder	Vlasova, M ; Fedotov, A ; Torrez, IM ; Kakazey, M ; Komlev, V ; Aguilar, PAM	CERAMICS INTERNATIONAL Volumen: 43 Número: 8 Páginas: 6221-6231	CIICAp	https://doi.org/10.1016/j.ceramint.2017.02.020
35	Formation of carbon nanodots with different spin states in mechanically processed mixtures of ZnO with carbon nanoparticles: an electron paramagnetic resonance study	Kakazey, M ; Vlasova, M ; Gomez-Vidales, V ; Angeles-Pascual, A ; Basiuk, VA	PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volumen: 19 Número: 5 Páginas: 3670-3678	CIICAp	https://doi.org/10.1039/C6CP07685H
36	Enhancement of VP6 immunogenicity and protective efficacy against rotavirus by VP2 in a genetic immunization	Lopez-Guerrero, D.V., Arias, N., Gutierrez-Xicotencatl, L., Chihu-Ampan, L., González, A., Pedroza-Saavedra, A., Rosas-Salgado, G., Villegas-García, J.C., Badillo-Godinez, O., Fernandez, G., Lopez, S., Esquivel-Guadarrama, F.	Vaccine Vaccine Article in Press	CIDC	https://doi.org/10.1016/j.vaccine.2017.03.104
37	Sporothrix schenckii sensu stricto and sporothrix brasiliensis are differentially recognized by human peripheral blood mononuclear cells	Martínez-álvarez, J.A., Pérez-García, L.A., Mellado Mojica, E., López, M.G., Martínez-Duncker, I., López-Bezerra, L.M., Mora-Montes, H.M.	Frontiers in Microbiology 8(MAY), pp. 843 Open Access	CIDC	https://doi.org/10.3389/fmicb.2017.00843
38	In silico receptor-based drug design of X,Y-benzenesulfonamide derivatives as selective COX-2 inhibitors	Pérez, D.J., Sarabia, O., Villanueva-García, M., Pineda-Urbina, K., Ramos-Organillo, Á., Gonzalez-Gonzalez, J., Gómez-Sandoval, Z., Razo-Hernández, R.S	Comptes Rendus Chimie 20(2), pp. 169-180	CIDC	https://doi.org/10.1016/j.crci.2016.05.015
39	Donor impurity-related optical absorption in GaAs elliptic-shaped quantum dots	Londoño, M.A., Restrepo, R.L., Ojeda, J.H., Vinh Phuc, H., Mora-Ramos, M.E, Kasapoglu, E, Morales, A.L., Duque, C.A.	Journal of Nanomaterials 2017,5970540 Open Access	CInC	http://doi.org/10.1155/2017/5970540
40	Terahertz emission, metamaterials and nanophotonics Preface	Mora-Ramos M.E.	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS Volumen: 254 Número: 4 Número de artículo: UNSP 1770223	CInC	https://doi.org/10.1002/pssb.201770223
41	Donor-impurity-related optical response and electron Raman scattering in GaAs cone-like quantum dots	Gil-Corrales, A., Morales, A.L., Restrepo, R.L., Mora-Ramos, M.E., Duque, C.A.	Physica B: Condensed Matter 507, pp. 76-83	CInC	https://doi.org/10.1016/j.physb.2016.11.033
42	Goos-Hanchen effect for optical vibrational modes in a semiconductor structure	Villegas, D ; Arriaga, J ; de Leon-Perez, F ; Perez-Alvarez, R	JOURNAL OF PHYSICS-CONDENSED MATTER Volumen: 29 Número: 12 Número de artículo: 125301	CInC	https://doi.org/10.1088/1361-648X/aa582b
43	Aqueous Solvation of Sml2: A Born-Oppenheimer Molecular Dynamics Density Functional Theory Cluster Approach	Ramírez-Soís, A., Amaro-Estrada, J.I., Hernández-Cobos, J., Maron, L.	Journal of Physical Chemistry A 121(11), pp. 2293-2297	CInC	https://doi.org/10.1021/acs.jpca.7b00910

44	Aqueous Solvation of Sml2: A Born-Oppenheimer Molecular Dynamics Density Functional Theory Cluster Approach	Ramirez-Solis, A ; Amaro-Estrada, JI ; Hernandez-Cobos, J; Maron, L	JOURNAL OF PHYSICAL CHEMISTRY A Volumen: 121 Número: 11 Páginas: 2293-2297	CInC	https://doi.org/10.1021/acs.jpca.7b00910
45	Exciton binding energy in coupled double zinc blende GaN/InGaN quantum well	Rojas-Briseño, J.G , Miranda-Pedraza, G.L., Martínez-Orozco, J.C.	Physica Status Solidi (B) Basic Research 254(4),1600461	CInC	https://doi.org/10.1002/pssb.201600461
46	Transmission and transport properties in Cantor graphene structures: The case of magnetoelectric modulation	Rodríguez-González, R., Rodríguez-Vargas, I.	Physica B: Condensed Matter 510, pp. 109-116	CInC	https://doi.org/10.1016/j.physb.2017.01.022
47	Half-Automorphisms of Cayley-Dickson Loops	Merlini-Giuliani M., Plaumann P., Sabinina L.	Lie groups, Differential Equations and Geometry, Springer, 2017 pp. 93-105	CInC	https://doi.org/10.1007/978-3-319-62181-4
48	Adjusting scheduling model with release and due dates in production planning	Chinos, E., Vakhania, N.	Cogent Engineering 4(1),1321175 Open Access	CInC	https://doi.org/10.1080/23311916.2017.1321175
49	Study of DC Ar-CO2 mixture plasma using optical emission spectroscopy and mass spectrometry techniques	Martinez, H., Perusquía, S., Villa, M., Reyes, P.G., Yousif, F.B. , Castillo, F., Contreras, U.	Physics of Plasmas 24(4),043508	CInC	https://doi.org/10.1063/1.4979995
50	Non-spherical szekeres models in the language of cosmological perturbations	Sussman, R.A., Hidalgo, J.C, Gaspar, I.D. , German, G.	Physical Review D 95(6)	IICBA	https://doi.org/10.1103/PhysRevD.95.064033