

## PUBLICACIONES ESTUDIANTES DCF 2018

No	Nombre del artículo	Autores (azul estudiante, negrita director)	Publicado en	Año	Vol.	Pag. de	Pag. hasta	No. artículo	DOI
1	A theoretical study on the geometry and spectroscopic properties of ground-state and local minima isomers of (CuS) <sub>(n=2-6)</sub> clusters	<b>Luque-Ceballos, Jonathan C.</b> ; Posada-Borbon, Alvaro; Herrera-Urbina, Ronaldo; Aceves, R.; Octavio Juarez-Sanchez, J.; <b>Posada-Amarillas, Alvaro</b>	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	2018	97	1	7		10.1016/j.physe.2017.10.016
2	Automatic focus and fusion image algorithm using nonlinear correlation: Image quality evaluation	<b>Cabazos-Marin, Alma Rocio</b> ; <b>Alvarez-Borrego, Josue</b>	OPTIK	2018	164	224	242		10.1016/j.ijleo.2018.02.101
3	Boron doping of ultrananocrystalline diamond films by thermal diffusion process	<b>Tirado, Pablo</b> ; Alcantar-Pena, Jesus J.; de Obaldia, Elida; Kudriavtsev, Yuriy; <b>Garcia, Rafael</b> ; Auciello, Orlando	MRS COMMUNICATIONS	2018	8	1111	1118		10.1557/mrc.2018.157
4	CO <sub>2</sub> adsorption on gas-phase Cu <sub>4</sub> -xPt <sub>x</sub> (x=0-4) clusters: a DFT study	<b>Galvez-Gonzalez, Luis E.</b> ; Octavio Juarez-Sanchez, J.; Pacheco-Contreras, Rafael; Garzon, Ignacio L.; Oliver Paz-Borbon, Lauro; <b>Posada-Amarillas, Alvaro</b>	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2018	20	17071	17080		10.1039/c8cp00818c
5	Effect of degradation on tribological performance of engine lubricants at elevated temperatures	<b>Heredia-Cancino, J. A.</b> ; Ramezani, Maziar; <b>Alvarez-Ramos, M. E.</b>	TRIBOLOGY INTERNATIONAL	2018	124	230	237		10.1016/j.triboint.2018.04.015
6	Electron states in a semiconductor quantum well wire in presence of an external transversal electric field	<b>Fernandez-Lozada, M.</b> ; <b>Betancourt-Riera, Ri</b> ; Betancourt-Riera, Re; Nieto Jalil, J. M.	PHYSICA SCRIPTA	2018	93			95804	10.1088/1402-4896/aad4d8
7	Nanoscale dose deposition in cell structures under X-ray irradiation treatment assisted with nanoparticles: An analytical approach to the relative biological effectiveness	<b>Melo-Bernal, W.</b> ; Chernov, V.; Chernov, G.; <b>Barboza-Flores, M.</b>	APPLIED RADIATION AND ISOTOPES (PROCEEDING)	2018	138	50	55		10.1016/j.apradiso.2017.05.020
8	Non-resonant enhancement mechanism in SERS effect due to copper oxide quantum dots stabilized in synthetic zeolite F9-NaX	<b>Martinez-Nunez, C. E.</b> ; Delgado-Beleno, Y.; <b>Cortez-Valadez, M.</b> ; Flores-Lopez, N. S.; <b>Flores-Acosta, M.</b> ; Castillon-Barraza, F. F.	MATERIALS CHEMISTRY AND PHYSICS	2018	211	150	159		10.1016/j.matchemphys.2017.12.075
9	Optical and structural properties of ammonia-free CdS:Cu thin film grown on flexible substrate by chemical bath method	<b>Corral-Guerrero, R. A.</b> ; Ochoa-Landin, R.; Apolinar-Irube, A.; <b>Castillo, S. J.</b>	CHALCOGENIDE LETTERS	2018	15	429	434		
10	Optical properties of silver, silver sulfide and silver selenide nanoparticles and antibacterial applications	<b>Delgado-Beleno, Y.</b> ; Martinez-Nunez, C. E.; <b>Cortez-Valadez, M.</b> ; Flores-Lopez, N. S.; <b>Flores-Acosta, M.</b>	MATERIALS RESEARCH BULLETIN	2018	99	385	392		10.1016/j.materresbull.2017.11.015
11	Out-of-plane band structure of a two-dimensional dispersive photonic crystal	<b>Valenzuela-Sau, Jesus Daniel</b> ; <b>Garcia-Llamas, Raul</b>	OPTICS LETTERS	2018	43	2360	2363		10.1364/OL.43.002360

12	Preparation of thin films bismuth sulfide by chemical bath deposition technique, a simplified formulation	<b>Chavez-Mendiola, E.</b> ; Acosta-Enriquez, M. C.; Carrillo-Castillo, A.; Arellano-Tanori, O.; Rivera-Nieblas, J. O.; <b>Castillo, S. J.</b>	CHALCOGENIDE LETTERS	2018	15	395	404	
13	Surface plasmon field enhancement: excitation by a short pulse or narrow beam of light	<b>Gutierrez Villarreal, J. M.</b> ; <b>Gaspar Armenta, J. A.</b> ; Mayoral Astorga, L. A.	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS	2018	35	1040	1045	10.1364/JOSAB.35.001040
14	Structural and vibrational properties of gold-doped titanium clusters: A first-principles study	<b>Britto Hurtado, R.</b> ; <b>Cortez-Valadez, M.</b> ; Gamez-Corrales, R.; <b>Flores-Acosta, M.</b>	COMPUTATIONAL AND THEORETICAL CHEMISTRY	2018	1124	32	38	10.1016/j.comptc.2017.12.008
15	TDDFT Study of the Optical Spectra of Free and Supported Binary Coinage Metal Hexamers: Effect of Doping and Support	<b>Luque-Ceballos, Jonathan C.</b> ; Sementa, Luca; Apra, Edoardo; Fortunelli, Alessandro; <b>Posada-Amarillas, Alvaro</b>	JOURNAL OF PHYSICAL CHEMISTRY C	2018	122	23143	23152	10.1021/acs.jpcc.8b06397
16	Thermoluminescence of ZnO:Na phosphors exposed to beta particle irradiation	<b>Aviles-Monreal, R.</b> ; Cruz-Vazquez, C.; <b>Bernal, R.</b> ; Brown, F.	OPTICAL MATERIALS	2018	83	78	81	10.1016/j.optmat.2018.05.068
17	Ultra-small Ag clusters in zeolite A4: Antibacterial and thermochromic applications	<b>Horta-Fraijo, P.</b> ; <b>Cortez-Valadez, M.</b> ; Flores-Lopez, N. S.; Britto Hurtado, R.; Vargas-Ortiz, R. A.; Perez-Rodriguez, A.; <b>Flores-Acosta, M.</b>	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	2018	97	111	119	10.1016/j.physe.2017.10.003