

## ARTÍCULOS

REF	PROFESOR	ARTÍCULO PUBLICADO	AUTORES	REVISTA	Año
DIF-11-A22	M. Sosa	Implementation of a lateral total body irradiation technique with 6 MV photons: The University of Texas Health Science Center in San Antonio experience.	Francisco Mesa, Tony Y. Eng, Carlos Esquivel, Clifton D. Fuller, Nilo Papanikolaou, Modesto Sosa	Journal of radiotherapy in practice 2011, 10, 45-54	2012
DIF-12-A01	R. Castañeda -Priego	Hysteresis in pressure-driven DNA denaturation	E. Hernandez-Lemus, L. A. Nicasio-Collazo and R. Castañeda-Priego.	PIOS ONE 7, 33789 (2012).	2012
DIF-12-A02	R. Castañeda -Priego	Dynamical arrest, percolation, gelation and glass formation in model nanoparticle dispersions with thermoreversible adhesive interactions.	A. P. R. Eberle, R. Castañeda-Priego, J. M. Kim, N. J. Wagner.	Langmuir 28, 1866 (2012).	2012
DIF-12-A03	R. Castañeda -Priego	On the calculation of structure of charge-stabilized colloidal suspensions	R. Castañeda-Priego, V. Lobaskin, J. C. Mixteco-Sánchez, L. F. Rojas-Ochoa, P. Linse.	Journal of Physics: Condensed Matter 24, 065102 (2012).	2012
DIF-12-A04	FM Vargas	Electrical bioimpedance and other techniques for gastric emptying and motility evaluation	M. Raquel Huerta Franco, <u>Miguel Vargas-Luna</u> , Juana Berenice Montes-Frausto, Corina Flores-hernández, Isamel Morales-Mata	World Journal of Gastroenterology 2012, february 15:3(1):10-18	2012
DIF-12-A05	Cordova-Fraga T Dr. Modesto Dr. Bernal	Magnetic vs. Shygmomanometry Cardiac Pressure	<u>T. Cordova</u> , <u>F Gomez</u> , L. Romero, MA Hernandez, CR Contreras, S Solorio, <u>M Sosa</u> and <u>J. Bernal</u>	Journal of Bioelectromagnetism Vol 14, No. 1 pp 22-26, 2012	2012
DIF-12-A06	Cordova-Fraga T Dr. Modesto	Medlar (Achras Sapota L.) as Oral Contrast Agent for MRI of the Gastrointestinal Tract	<u>Teodoro Cordova-Fraga</u> , <u>Modesto Sosa</u> , Martha Alicia Hernandez-Gonzalez, Jose Antonio Reyes-Aguilera, Sergio Solorio, Chystian Ramirez, Evelia Bautista-Flores, Guadalupe Reynaga, Mario Avila-Rodriguez, Jose Maria de la Roca-Chiapas.	Appl Magn Reson (2012)42:161-167 DOI 10.1007/s00723-011-0267-8	2012
DIF-12-A07	Cordova-Fraga T	Superficial magnetic imaging by an xy-scanner of three magnetoresistive channels	M. E. Cano, A. H. Pacheco, <u>T. Cordova</u> , E.E. Mazon ando A. Barrera	Review of scientific instruments 83, 033705 (2012)	2012
DIF-12-A08	Cordova-Fraga T Dr. Bernal	Fractional mechanical oscillators	J.F Aguilar, J.J Rosales-García, <u>J.J. Bernal-Alvarado</u> , <u>T. Cordova-Fraga</u> and Guzmán-Cabrera	Revista Mexicana de Fisica 58 (2012) 348-352	2012
DIF-12-A08	Bernal-Alvarado JJ	Fractional mechanical oscillators	J.F Aguilar, J.J Rosales-García, <u>J.J. Bernal-Alvarado</u> , <u>T. Cordova-Fraga</u> and Guzmán-Cabrera	Revista Mexicana de Fisica 58 (2012) 348-352	2012
DIF-12-A09	Cordova-Fraga T	Application of the Numerical Laplace Transform on the Simulation of Franctinal Differential Equations	José F. Gómez, J.J. Rosales, <u>J. J. Bernal</u> & <u>T. Córdoba</u>	Prespacetime Journal Published by QuantumDream. Inc ISSN:2152-8301	2012
DIF-12-A10	Alejandro Gil-Villegas	Anomalous columnar order of charged colloidal platelets.	Libertad Morales*, Henricus Wensink, Amparo Galindo and <u>Alejandro Gil-Villegas</u> .	Journal of Chemical Physics 136, 034901 (2012).	2012
DIF-12-A11	Alejandro Gil-Villegas	Computer simulation of sedimentation using the Wolf method.	Perla X. Viveros-Méndez and <u>Alejandro Gil-Villegas</u> ,	Journal of Chemical Physics 136, 154507 (2012).	2012
DIF-12-A12	Alejandro Gil-Villegas	Semiclassical approach to model quantum fluids using the Statistical Associating Fluid Theory for systems with potentials of variable range.	Victor M. Trejos-Montoya* and <u>Alejandro Gil-Villegas</u>	Journal of Chemical Physics 136, 184506 (2012).	2012

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DIF-12-A13	Cordova-Fraga T Dr. Modesto Dr. Vargas	Ultrasound Measurement in M Mode of Peristalsis and Gastric Emptying.	<u>Teodoro Cordova-Fraga</u> *1, 2, Martha Alicia Hernandez-Gonzalez3, Angelica Hernandez-Rayas1, <u>José Francisco Gómez-Aguilar</u> 1, <u>Modesto Sosa-Aquino</u> 1, <u>Miguel Vargas-Luna</u> 1, Sergio Solorio-Meza3, <u>Jesús Bernal-Alvarado</u> 1, Carlos Ricardo Contreras-Gaytan2, José María de la Roca-Chiapas	International Journal of Life Science and Medical Research. Sept. 2012, Vol. 2 Iss. 3, PP. 42-45	2012
DIF-12-A14	FM Vargas	Effect of psychological stress on gastric motility assessed by electrical bio-impedance.	María Raquel Huerta-Franco, <u>Miguel Vargas-Luna</u> , Juana Berenice Montes-Frausto, Ismael Morales-Mata, Lorena Ramirez-Padilla	World J Gastroenterol 2012 September 28; 18(36): 5027-5033	2012
DIF-12-A15	Gerado Gtz.	Modelo esféricamente simétrico de la señal fotoacústica en el dominio temporal producida por objetos micrométricos: el caso de células de melanoma	<u>Pérez Solano R.</u> , <u>Gutiérrez Juárez G.</u> *	Superficies y Vacío 25(2) 75-81, junio de 2012	2012
DIF-12-A16	R. Castañeda -Priego	Analytic structure factor of discrete potential fluids: cluster-like formation and micro-phases	A. Loredó-Osti and R. <u>Castañeda-Priego</u> .	Journal of Nanofluids 1, 36 (2012).	2012
DIF-12-A17	R. Castañeda -Priego Dr. Modesto	Magnetization of red blood cells: a Brownian dynamics simulation study	M. E. Cano, R. <u>Castañeda-Priego</u> , A. Barrera, J. C. Estrada, P. Knauth and <u>M. Sosa</u> .	Revista Mexicana de Física 58, 391-395 (2012).	2012
DIF-12-A18	R. Castañeda -Priego A. L. Benavides,	Phase behavior of colloids and proteins in aqueous suspensions: theory and computer simulations.	N. E. Valadez-Perez, <u>A. L. Benavides</u> , E. Schoell-Paschinger and R. <u>Castañeda-Priego</u> .	The Journal of Chemical Physics 137, 084905 (2012).	2012
DIF-12-A19	R. Castañeda -Priego	Directed self-assembly of colloids on parallel layers by a one-dimensional modulated substrate	S. Herrera-Velarde, A. Delgado-García, E. C. Euan-Díaz and R. <u>Castañeda-Priego</u> .	Journal of Nanofluids 1, 44 (2012).	2012
DIF-12-A20	Dr. Gerado	Null detection of ballistic photons for locating objects buried in turbid media	<u>David Cywiak</u> a , Moisés Cywiak b , <u>Rafael Pérez-Solano</u> a & <u>Gerardo Gutiérrez-Juárez</u>	Journal of Modern Optics, Vol. 59, No. 13, 20 July 2012, 1154-1157	2012
DIF-12-A21	R. Castañeda -Priego	Single-file diffusion in periodic energy landscapes: The role of hydrodynamic interactions.	E. C. Euan-Díaz, V. R. Misko, F. M. Peeters, S. Herrera-Velarde and R. <u>Castañeda-Priego</u> .	Physical Review E 86, 031123 (2012).	2012
DIF-12-A22	Cordova-Fraga T Dr. Modesto Dr. Bernal	Biomagnetic Validation to Skin Level for Blood Pressure Curves and Venous.	<u>T. Cordova-Fraga</u> *1, <u>Francisco Gómez-Aguilar</u> 1, T. Bravo-Arellano1, M. A. Hernández-Gonzalez2, S. Solorio-Meza2, <u>H. A. Pérez-Olivas</u> 1, <u>M. Sosa-Aquino</u> 1, <u>J. J. Bernal-Alvarado</u> 1, C. R. Contreras-Gaytan3	Open Journal of Applied Sciences, 2012, 2, 128-134	2012
DIF-12-A23	Cordova-Fraga T Dr. Modesto	Experimental setup for magnetic hyperthermia: pilot study.	<u>M.E. Cano</u> , <u>T. Cordova</u> , A. Hernández, J.C. Estrada, P. Knauth, Z. López, M. Sabanero and <u>M. Sosa</u> .	Measuring techniques and instrumentation, Revista Mexicana de Física S58, 268-271	2012
DIF-12-A24	Dr. Gerado	Photoacoustic Tomography System	<u>J. D. Martínez-Ramírez</u> 1 ,R. Quispe-Siccha2, C. García-Segundo3, F. J. González4, R. Espinosa-Luna5, G. Gutiérrez-Juárez*6	Journal of Applied Research and Technology, Vol. 10, February 2012	2012
DIF-12-A25	Cordova-Fraga T	Alternative Metodology for gold nanoparticles diameter characterization using PCA technique and UV-VIS spectrophotometry.	J. C. Matínez, N. A. Chequer, J. L. González, <u>T. Córdoba</u> .	Nanoscience and nanotechnology 2012, 2 (6) 184-189	2012
DIF-12-A26	Cordova-Fraga T Bernal-Alvarado JJ	Modeling and simulation of equivalent circuits in description of biological systems - A fractional calculus approach.	F. Gómez, <u>J. Bernal</u> , J. Rosales, <u>T. Córdoba</u> .	Journal of electrical bioimpedance Vol. 3, pp 2-11, 2012	2012

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DIF-12-A27	Ana Laura Benavides	Surface tension and phase coexistence for fluids of molecules with extended dipoles.	Enrique Sánchez-Arellano, <u>A. L. Benavides</u> and José Alejandre.	AIP The Journal of Chemical physics 137, 114708 (2012)	2012
DIF-12-A28	Dr. Gerado	Low Frequency Vibrating Optical System for Detecting Objects Buried in Turbid Media: Preliminary Results	<u>D. Cywiak</u> · M. Cywiak · <u>R. Pérez-Solano</u> · <u>G. Gutiérrez-Juárez</u>	Int J Thermophys (2012) 33:2016-2020 DOI 10.1007/s10765-012-1236-7	2012
DIF-12-A29	Dr. Gerado	An experimental and theoretical approach to the study of the photoacoustic signal produced by cancer cells.	<u>Rafael Pérez Solano</u> , <u>Francisco I. Ramírez-Perez</u> , Jorge A. Castorena-Gonzalez, Edgar Alvarado Anell, <u>Gerardo Gutiérrez-Juárez</u>	AIP ADVANCES 2, 011102 (2012)	2012
DIF-12-A30	Dr. Bernal	Análisis de circuitos equivalentes para células: un enfoque de cálculo fraccinario.	Gómez-Aguilar F. Guía-Calderón M., Rosales-García J. Bernal-Alvarado J.	Ingeniería investigación y tecnología, Vol. XIII (número 3) julio-septiembre 2012: 375-348	2012
DIF-12-A31	Dr. Gil	Evaluation of the pressure tensor and surface tension for molecular fluids with Quantum corrections	Guadalupe Jimenez Serratos, Carlos Vega y Alejandro Gil-Villegas	Journal of Chemical Physics 137, 204104 (2012)	2012
DIF-12-A32	Dra. Ana Dr. Sastre	Critical phenomena of the majority voter model in a three-dimensional cubic lattice.	Ana L. Benavides and Francisco Sastre	Physical review E 86 041123 (2012)	2012