

ARTÍCULOS PUBLICADOS DURANTE EL MES DE ENERO DE 2021

PUBLICADOS EN EXTENSO EN REVISTAS DE PRESTIGIO INTERNACIONAL CON ARBITRAJE ESTRICTO (INCLUIDAS EN JCR)

1. Acuna-Soto, C., Liern, V., & Perez-Gladish, B. (2021). Normalization in Topsis-Based Approaches With Data of Different Nature: Application to the Ranking of Mathematical Videos. [Annals of Operations Research](#), 296(1-2. Si), 541-569.
2. Hernandez-Contreras, X. A., Zumeta-Dube, I., Gattorno, G. R., Castro, N. C., Espinola, J. L. C., & Reguera, E. (2021). Unraveling Amazing Structural Features of a Highly Efficient "Oxo-Co/Phosphate" Catalyst for Water Oxidation. [Applied Catalysis B-Environmental](#), 282, 119549.
3. Silva-Juarez, A., Tlelo-Cuautle, E., De La Fraga, L. G., & Li, R. (2021). Optimization of the Kaplan-Yorke Dimension in Fractional-Order Chaotic Oscillators by Metaheuristics. [Applied Mathematics and Computation](#), 394, 125831.
4. Poblete-Naredo, I., Gutierrez, M. I., Mendoza-Sanchez, D. E., Ortega, A., Albores, A., Gutierrez-Martinez, J., Leija, L., & Vera, A. (2021). Low-Intensity Pulsed Ultrasound Effect on Mio-M1 Cell Viability: Setup Validation and Standing Waves Analysis. [Applied Sciences-Basel](#), 11(1), 271.
5. Romero-Salas, E. A., Navarro-Noya, Y. E., Luna-Guido, M., Verhulst, N., Crossa, J., Govaerts, B., & Dendooven, L. (2021). Changes in the Bacterial Community Structure in Soil Under Conventional and Conservation Practices Throughout a Complete Maize (*Zea Mays* L.) Crop Cycle. [Applied Soil Ecology](#), 157, 103733.
6. Cigarroa-Mayorga, O. E., Gallardo-Hernandez, S., & Talamas-Rohana, P. (2021). Tunable Raman Scattering Enhancement Due to Self-Assembled Au Nanoparticles Layer on Porous Aao: the Influence of the Alumina Support. [Applied Surface Science](#), 536, 147674.
7. Solares, H. A. A., Coutu, S., Delaunay, J. J., Fox, D. B., Gregoire, T. et al. (2021). Multimessenger Gamma-Ray and Neutrino Coincidence Alerts Using Hawc and Icecube Subthreshold Data. [Astrophysical Journal](#), 906(1), 63.
8. Solis-Guillen, R., Leopoldo, M., Meneses, A., & Centurion, D. (2021). Activation of 5-Ht1a and 5-Ht7 Receptors Enhanced a Positively Reinforced Long-Term Memory. [Behavioural Brain Research](#), 397, 112932.
9. Flores-Salgado, G., Thalasso, F., Buitron, G., Vital-Jacome, M., & Quijano, G. (2021). Kinetic Characterization of Microalgal-Bacterial Systems: Contributions of Microalgae and Heterotrophic Bacteria to the Oxygen Balance in Wastewater Treatment. [Biochemical Engineering Journal](#), 165, 107819.
10. Velez-Saboya, C. S., Oropeza-Guzman, E., Sierra-Valdez, F. J., & Ruiz-Suarez, J. C. (2021). Ca²⁺-Mediate Denhancement of Anesthetic Diffusion Across Phospholipid Multilamellar Systems. [Biochimica Et Biophysica Acta-Biomembranes](#), 1863(2), 183509.
11. Sierra-Lopez, F., Baylon-Pacheco, L., Vanegas-Villa, S. C., & Rosales-Encina, J. L. (2021). Characterization of Low Molecular Weight Protein Tyrosine Phosphatases of Entamoeba Histolytica. [Biochimie](#), 180, 43-53.

12. Perez-Gonzalez, M., Morales-Luna, M., Santoyo-Salazar, J., Crotte-Ledesma, H., Garcia-Tinoco, P. E., & Tomas, S. A. (2021). Improved Adsorption and Photocatalytic Removal of Methylene Blue by Moo3 Thin Films: Role of the Sputtering Power, Film Thickness, and Sputtering Working Pressure. [Catalysis Today](#), *360*, 138-146.
13. Perez-Gonzalez, M., & Tomas, S. A. (2021). Surface Chemistry of Tio2-Zno Thin Films Doped With Ag. Its Role on the Photocatalytic Degradation of Methylene Blue. [Catalysis Today](#), *360*, 129-137.
14. Zamora-Briseno, J. A., Pereira-Santana, A., Reyes-Hernandez, S. J. , Cerqueda-Garcia, D., Castano, E., & Rodriguez-Zapata, L. C. (2021). Towards an Understanding of the Role of Intrinsic Protein Disorder on Plant Adaptation to Environmental Challenges. [Cell Stress & Chaperones](#), *26*(1), 141-150.
15. Lopez-Hidalgo, A. M., Magana, G., Rodriguez, F., De Leon-Rodriguez, A., & Sanchez, A. (2021). Co-Production of Ethanol-Hydrogen by Genetically Engineered Escherichia Coli in Sustainable Biorefineries for Lignocellulosic Ethanol Production. [Chemical Engineering Journal](#), *406*, 126829.
16. Fernandez-Torres, J., Martinez-Nava, G. A., Zamudio-Cuevas, Y., Barbier, O. C., Narvaez-Morales, J., & Martinez-Flores, K. (2021). Ancestral Contribution of the Muscle-Specific Creatine Kinase (Ckm) Polymorphism Rs4884 in the Knee Osteoarthritis Risk: a Preliminary Study. [Clinical Rheumatology](#), *40*(1), 279-285.
17. Sira-Ramirez, H., & Zurita-Bustamante, E. W. (2021). On the Equivalence Between Adrc and Flat Filter Based Controllers: a Frequency Domain Approach. [Control Engineering Practice](#), *107*, 104656.
18. Cardoso-Jaime, V., Maya-Maldonado, K., Celestino-Montes, A., Tsutsumi, V., & Hernandez-Martinez, S. (2021). Lysozyme C-1 Gene Is Overexpressed in Anopheles Albimanus Pericardial Cells After an Immune Challenge. [Developmental and Comparative Immunology](#), *114*, 103830.
19. Sanchez-Portillo, P., Hernandez-Sirio, A., Godoy-Alcantar, C., Lacroix, P. G., Agarwal, V., Santillan, R., & Barba, V. (2021). Colorimetric Metal Ion (Ii) Sensors Based on Imine Boronic Esters Functionalized With Pyridine. [Dyes and Pigments](#), *186*, 108991.
20. Elizondo-Alvarez, M. A., Uribe-Salas, A., & Bello-Teodoro, S. (2021). Chemical Stability of Xanthates, Dithiophosphinates and Hydroxamic Acids in Aqueous Solutions and Their Environmental Implications. [Ecotoxicology and Environmental Safety](#), *207*, 111509.
21. Santovena-Uribe, A., Maya-Cornejo, J., Bahena, D., Ledesma, J., Perez, R., & Esparza, R. (2021). Synthesis and Characterization of Agpd Bimetallic Nanoparticles as Efficient Electrocatalysts for Oxygen Reduction Reaction. [Electrocatalysis](#), *11*, 536-545.
22. Deciga-Campos, M., Villafan-Gutierrez, R., Espinosa-Juarez, J. V., Jaramillo-Morales, O. A., & Lopez-Munoz, F. J. (2021). Synergistic Interaction Between Haloperidol and Gabapentin in a Model of Neuropathic Nociception in Rat. [European Journal of Pharmacology](#), *891*, 173702.
23. Jafari, R., Yu, W., Razvarz, S., & Gegov, A. (2021). Numerical Methods for Solving Fuzzy Equations: a Survey. [Fuzzy Sets and Systems](#), *404*(Si), 1-22.
24. Martin-Del-Campo-Becerra, G. D., Serafin-Garcia, S. A., Reigber, A., & Ortega-Cisneros, S. (2021). Parameter Selection Criteria for Tomo-Sar Focusing. [Ieee Journal of Selected Topics in Applied Earth Observations and Remote Sensing](#), *14*, 1580-1602.
25. Botello-Perez, M., Kwon, J. Y. , Garcia-Ruiz, I., & Jardon-Aguilar, H. (2021). A 2.4-Mm Coaxial Microcalorimeter for Use as Millimeter-Wave Power Standard at Cenam. [Ieee Transactions on Instrumentation and Measurement](#), *70*, 1001910.

26. Duque, F., Fabila-Monroy, R., Hernandez-Velez, C., & Hidalgo-Toscano, C. (2021). Counting the Number of Crossings in Geometric Graphs. [Information Processing Letters](#), *165*, 106028.
27. Ahrari, A., Elsayed, S., Sarker, R., Essam, D., & Coello, C. A. C. (2021). Weighted Pointwise Prediction Method for Dynamic Multiobjective Optimization. [Information Sciences](#), *546*, 349-367.
28. Lule-Chavez, A. N., Carballar-Lejarazu, R., Cabrera-Ponce, J. L., Lanz-Mendoza, H., & Ibarra, J. E. (2021). Genetic Transformation of Mosquitoes by Microparticle Bombardment. [Insect Molecular Biology](#), *30*(1), 30-41.
29. Cortez-Trejo, M. C., Mendoza, S., Loarca-Pina, G., & Figueroa-Cardenas, J. D. (2021). Physicochemical Characterization of Protein Isolates of Amaranth and Common Bean and a Study of Their Compatibility With Xanthan Gum. [International Journal of Biological Macromolecules](#), *166*, 861-868.
30. Gonzalez-Sierra, J., Aranda-Bricaire, E., Rodriguez-Cortes, H., & Santiaguillo-Salinas, J. (2021). Formation Tracking for a Group of Differential-Drive Mobile Robots Using an Attitude Observer. [International Journal of Control](#), *94*(1), 89-102.
31. Serrano-Rubi, M., Jimenez, L., Martinez-Rendon, J., Cerejido, M., & Ponce, A. (2021). Ouabain Promotes Gap Junctional Intercellular Communication in Cancer Cells. [International Journal of Molecular Sciences](#), *22*(1), 358.
32. Velazquez, D., & Poznyak, A. (2021). Attractive Ellipsoid Design for Robust Sliding-Mode Observation Error in Stochastic Nonlinear Discrete-Time Systems. [International Journal of Robust and Nonlinear Control](#), *31*(1), 69-86.
33. Kravchenko, V. V., & Torba, S. M. (2021). A Direct Method for Solving Inverse Sturm-Liouville Problems*. [Inverse Problems](#), *37*(1), 015015.
34. Colina-Ruiz, R. A., Hoy-Benitez, J. A., Lezama-Pacheco, J. S., De Leon, J. M., & Espinosa-Faller, F. J. (2021). Local Atomic Structure and Ni Nanophase Segregation in Zn1-Xnixs Thin Films. [Journal of Alloys and Compounds](#), *854*, 157258.
35. Jaramillo, D., & Villarreal, R. H. (2021). The V-Number of Edge Ideals. [Journal of Combinatorial Theory Series A](#), *177*, 105310.
36. Felix-Quintero, H., Falcony, C., Mariscal-Becerra, L., Mejia-Uriarte, E. V., Hernandez, A. J., Camarillo, E., Flores, C., & Murrieta, S. H. (2021). Mn²⁺-Yb³⁺ Back and Forth Energy Transfer by Super-Exchange Interaction in Bismuth Silicate Glass. [Journal of Luminescence](#), *230*, 117733.
37. Campos-Gonzalez, E., Melendez-Lira, M., Arias-Ceron, J. S., Lozada-Morales, R., Mendoza-Alvarez, J. G., Melendez-Zamudio, M., Fernandez-Munoz, J. L., & Zelaya-Angel, O. (2021). White Photoluminescence Emission Using Cds + Cdco3 Composite Thin Films. [Journal of Luminescence](#), *230*, 117673.
38. Reyes-Rodriguez, P. Y., Cortes-Hernandez, D. A., Avila-Orta, C. A., Sanchez, J., Andrade-Guel, M., Herrera-Guerrero, A., Cabello-Alvarado, C., & Ramos-Martinez, V. H. (2021). Synthesis of Pluronic F127-Coated Magnesium/Calcium (Mg₁-Xcaxfe_{2o4}) Magnetic Nanoparticles for Biomedical Applications. [Journal of Magnetism and Magnetic Materials](#), *521*, 167518.
39. Martinez-Perez, A., & Torres-Vega, G. (2021). Discrete Self-Adjointness and Quantum Dynamics. Travel Times. [Journal of Mathematical Physics](#), *62*(1), 012103.
40. Luna-Valdez, J. G., Balandran-Quintana, R. R., Azamar-Barrios, J. A., Mendoza-Wilson, A. M., & Montfort, G. R. C. (2021). A Spectroscopic Approach to Determine the Formation Mechanism of Biopolymer Particles From Wheat Bran Proteins. [Journal of Molecular Structure](#), *1224*, 129194.

41. Quevedo-Tinoco, L., Rodriguez-Garcia, G., Del Rio, R. E., Talero, E., Motilva, V., Cerda-Garcia-Rojas, C. M., Joseph-Nathan, P., & Gomez-Hurtado, M. A. (2021). Strategy for the Vibrational Circular Dichroism Study of a Glycosylflavonoid Evaluated as Its Peracetate. The Case of Bioactive 7-O-Beta-D-Glucopyranosylchrysin. [Journal of Molecular Structure](#), *1225*, 129147.
42. Ochoa, M. E., Farfan, N., Labra-Vazquez, P., Soto-Castro, D., & Santillan, R. (2021). Synthesis, Characterization and in Silico Screening of Potential Biological Activity of 17 Alpha-Ethynyl-3 Beta, 17 Beta, 19-Trihydroxyandrost-5-En Acetylated Derivatives. [Journal of Molecular Structure](#), *1225*, 129167.
43. Del Rio, R. E., Pardo-Novoa, J. C., Cerda-Garcia-Rojas, C. M., & Joseph-Nathan, P. (2021). Vibrational Circular Dichroism Behavior of Quinol Cacalolides From Psacalium Aff. Sinuatum. [Journal of Molecular Structure](#), *1224*, 128987.
44. Monzon-Gonzalez, C. R., Sanchez-Vergara, M. E., Narvaez, W. E. V., Rocha-Rinza, T., Hernandez, M., Gomez, E., Jimenez-Sandoval, O., & Alvarez-Toledano, C. (2021). Synthesis and Characterization of Organotin(IV) Semiconductors and Their Applications in Optoelectronics. [Journal of Physics and Chemistry of Solids](#), *150*, 109840.
45. Salinas-Fuentes, C., Hernandez-Zanabria, A., Kudriavtsev, Y., & Cheang-Wong, J. C. (2021). Optical Characterization of Nanostructured Beta - Fesi2 Layers Obtained by Fe+ Implantation. [Journal of Physics D-Applied Physics](#), *54*(2), 025105.
46. Winkler, R. (2021). Protyquant: Comparing Label-Free Shotgun Proteomics Datasets Using Accumulated Peptide Probabilities. [Journal of Proteomics](#), *230*, 103985.
47. Romero-Nava, R., Garcia, N., Aguayo-Ceron, K. A., Munoz, F. S., Huang, F. Y., Hong, E., & Villafana, S. (2021). Modifications in Gpr21 and Gpr82 Genes Expression as a Consequence of Metabolic Syndrome Etiology. [Journal of Receptors and Signal Transduction](#), *41*(1), 38-44.
48. Castano-Arcila, M., Aguilera, L. U., & Rodriguez-Gonzalez, J. (2021). Modeling the Intracellular Dynamics of the Dengue Viral Infection and the Innate Immune Response. [Journal of Theoretical Biology](#), *509*, 110529.
49. Celestino-Montes, A., Perez-Trevino, P., Sandoval-Herrera, M. D., Gomez-Viquez, N. L., & Altamirano, J. (2021). Relative Role of T-Tubules Disruption and Decreased Serca2 on Contractile Dynamics of Isolated Rat Ventricular Myocytes. [Life Sciences](#), *264*, 118700.
50. Reynosa-Martinez, A. C., Gomez-Chayres, E., Villaurrutia, R., & Lopez-Honorato, E. (2021). Controlled Reduction of Graphene Oxide Using Sulfuric Acid. [Materials](#), *14*(1), 59.
51. Acosta-Silva, Y. J., Mendez-Lopez, A., De Moure-Flores, F., Tomas, S., Lozada-Morales, R., Melendez-Lira, M., & Zelaya-Angel, O. (2021). Characterization of Substitutional and Interstitial Eu+3-Positions in Cds Lattice. [Materials Chemistry and Physics](#), *257*, 123763.
52. Guzman-Carrillo, H. R., Gasca-Tirado, J. R., Lopez-Romero, J. M., Luis, M. A. C., Eric, M. R. M. et al. (2021). Encapsulation of Toxic Heavy Metals From Waste Crt Using Calcined Kaolin Base-Geopolymer. [Materials Chemistry and Physics](#), *257*, 123745.
53. Lopez-Badillo, C. M., Hernandez-Gonzalez, M., Hernandez-Centeno, F., Olivas-Armendariz, I., Rodriguez-Gonzalez, C. A., Muzquiz-Ramos, E. M., Lopez-Cuevas, J., & Lopez-De La Pena, H. Y. (2021). Antibacterial Activity and in Vitro Cytotoxicity Studies of Ag-Doped Cao Nanoparticles. [Materials Letters](#), *283*, 128741.

54. Chavez, D., Gomez-Solis, C., Mtz-Enriquez, A. I., Rodriguez-Gonzalez, V., Escobar-Barrios, V., Garcia, C. R., & Oliva, J. (2021). High Sensitivity of Flexible Graphene Composites Decorated With V2o5 Microbelts for No2 Detection. [Materials Research Bulletin](#), *133*, 111052.
55. Martinez-Martinez, R., Juarez-Lopez, G., Garcia-Hipolito, M., Diaz, J. J. B., Tellez, S. C., Aguilar-Frutis, M. A., Flores, G. A., & Falcony, C. (2021). Blue and Bluish-White Colors From the Luminescent Zro2 and Zro2: Al3+ Films Prepared by the Usp Method. [Materials Research Express](#), *8*(1), 016201.
56. Castillo-Sanchez, Y. B., & Gonzalez, L. A. (2021). Chemically Deposited Pbs Thin Films by Reaction Media With Glycine for Use in Photovoltaics. [Materials Science in Semiconductor Processing](#), *121*, 105405.
57. Arreola-Pina, A. S., & Mimila-Arroyo, J. (2021). Thermal Reliability of Deuterated Algan/Gan Hemts. [Materials Science in Semiconductor Processing](#), *123*, 105482.
58. Chinas-Sanchez, P., Lopez-Juarez, I., Vazquez-Lopez, J. A., El Kamel, A., & Navarro-Gonzalez, J. L. (2021). Stable and Unstable Pattern Recognition Using D-2 and Svm: a Multivariate Approach. [Mathematics](#), *9*(1), 10.
59. Wang, W., Jia, Y., Yu, W., Pang, H. S., & Cai, K. W. (2021). On-Line Ammonia Nitrogen Measurement Using Generalized Additive Model and Stochastic Configuration Networks. [Measurement](#), *170*, 108743.
60. Hernandez-Sanchez, A., Poznyak, A., Chairez, I., & Andrianova, O. (2021). Robust 3-D Autonomous Navigation of Submersible Ship Using Averaged Sub-Gradient Version of Integral Sliding Mode. [Mechanical Systems and Signal Processing](#), *149*, 107169.
61. Aguilar-Torrentera, J., Galvan-Tejada, G. M., Orozco-Lugo, A. G., & Darwazeh, I. Z. (2021). Performance of a Noncoherent Decoder for Spectralamplitude-Coding Electronic-Codedivision Multiple Access. [Microwave and Optical Technology Letters](#), *63*(1), 112-120.
62. Cervantes-Lopez, J. L., Rangel, R., Meneses-Rodriguez, D., Rodriguez-Gattorno, G., & Alvarado-Gil, J. J. (2021). Ce, Eu Incorporation Through Doping of Ald-Zno Thin Films for Enhancing Their Photoluminescent Properties. [Nanotechnology](#), *32*(14), 145601.
63. Gonzalez-Reyna, M., Rodriguez-Lopez, A., & Perez-Robles, J. F. (2021). One-Step Synthesis of Carbon Nanospheres With an Encapsulated Iron-Nickel Nanoalloy and Its Potential Use as an Electrocatalyst. [Nanotechnology](#), *32*(9), 095706.
64. Reddy, C. S., Willars-Rodriguez, F. J., & Bon, R. R. (2021). Self-Powered Broadband Photodetector Based on a Solution-Processed P-Nio/N-Cds:Al Heterojunction. [Nanotechnology](#), *32*(9), 095202.
65. Lara-Canche, A. R., Garcia-Gutierrez, D. F., Torres-Gomez, N., Reyes-Gonzalez, J. E., Bahena-Uribe, D., Sepulveda-Guzman, S., Hernandez-Calderon, I., & Gutierrez, D. I. G. (2021). Solution Processed Nanostructured Hybrid Materials Based on Pbs Quantum Dots and Reduced Graphene Oxide With Tunable Optoelectronic Properties. [Nanotechnology](#), *32*(5), 055604.
66. Anna, K. K., Bogireddy, N. K. R., & Ramirez-Bon, R. (2021). Synthesis of Cetyl Trimethyl Ammonium Bromide (Ctab) Capped Copper Oxide Nanocubes for the Remediation of Organic Pollutants Using Photocatalysis and Catalysis. [Nanotechnology](#), *32* (10), 105707.
67. Meza-Arroyo, J., Rao, M. G. S. , Reddy, K. C. S., Sanchez-Martinez, A., Rodriguez-Lopez, O., Quevedo-Lopez, M., & Ramirez-Bon, R. (2021). Ultra-Dry Air Plasma Treatment for Enhancing the Dielectric Properties of Al2o3-Gptms-Pmma Hybrid Dielectric Gate Layers in a-Igzo Tft Applications. [Nanotechnology](#), *32*(13), 135203.
68. Yu, W., Gonzalez, J., & Li, X. O. (2021). Fast Training of Deep Lstm Networks With Guaranteed Stability for Nonlinear System Modeling. [Neurocomputing](#), *422*, 85-94.

69. Griego, E., Herrera-Lopez, G., Gomez-Lira, G., Barrionuevo, G., Gutierrez, R., & Galvan, E. J. (2021). Functional Expression of Trkb Receptors on Interneurons and Pyramidal Cells of Area Ca3 of the Rat Hippocampus. [Neuropharmacology](#), *182*, 108379.
70. Galindo-Valdes, J. S., Cortes-Hernandez, D. A., Ortiz-Cuellar, J. C., De La O-Baquera, E., Escobedo-Bocardo, J. C., & Acevedo-Davila, J. L. (2021). Laser Deposition of Bioactive Coatings by in Situ Synthesis of Pseudowollastonite on Ti6Al4V Alloy. [Optics and Laser Technology](#), *134*, 106586.
71. Nieto-Zepeda, K. E., Quinones-Galvan, J. G., Rodriguez-Rosales, K., Guillen-Cervantes, A., Santos-Cruz, J., Zelaya-Angel, O., & De Moure-Flores, F. (2021). Optoelectronic Properties of Cl and F Doped CdS Thin Films Grown by Chemical Bath Deposition. [Optik](#), *226*, 166004.
72. Abazov, V. M., Abbott, B., Acharya, B. S., Adams, M., Adams, T. et al. (2021). Study of the Normalized Transverse Momentum Distribution of W Bosons Produced in P(P)Over-Bar Collisions at Root S=1.96 TeV. [Physical Review D](#), *103*(1), 012003.
73. Benedetti, M., Barera, S., Longoni, P., Guardini, Z., Garcia, N. H. et al. (2021). A Microalgal-Based Preparation With Synergistic Cellulolytic and Detoxifying Action Towards Chemical-Treated Lignocellulose. [Plant Biotechnology Journal](#), *19*(1), 124-137.
74. Urdapilleta-Inchaurregui, V., Fernandez-Luqueno, F., Torres-Huerta, A. M., Roa-Velazquez, D., Rodriguez-Varela, F. J., & Sanchez-Castro, M. E. (2021). Natural Soil Clays From a Phaeozem to Synthesize a Nanocomposite With Exhausted Coffee Grounds and Ag- and TiO₂-Nanoparticles for Water, Air, or Soil Decontamination. [Polish Journal of Environmental Studies](#), *30*(1), 871-880.
75. Tellez-Alcaraz, F., Orozco-Lugo, A. G., & Lara, M. (2021). A Beamformer for Multiple Packet Reception Based on Blank Intervals. Part I: the Flat-Fading Channel Case. [Signal Processing](#), *178*, 107802.
76. Orozco-Lugo, A. G., Lara, M., Sandoval-Curmina, V., & Galvan-Tejada, G. M. (2021). Offered Load Estimation in Random Access Multipacket Perception Systems Using the Expectation-Maximization Algorithm. [Signal Processing](#), *179*, 107827.
77. Araya, H., Leon, J. A., & Torres, S. (2021). On Local Linearization Method for Stochastic Differential Equations Driven by Fractional Brownian Motion. [Stochastic Analysis and Applications](#), *39*(1), 55-90.
78. Leon, J. A., & Marquez-Carreras, D. (2021). Semilinear Fractional Stochastic Differential Equations Driven by a Gamma-Holder Continuous Signal With $\Gamma > 2/3$. [Stochastics and Dynamics](#), *21*(1), 2050039.
79. Naeem, M., Fortaleza, V. C., Serra, P. L. C., Lima, C. L., Costa, T. H. C. et al. (2021). Synthesis of Molybdenum Oxide on Aisi-316 Steel Using Cathodic Cage Plasma Deposition at Cathodic and Floating Potential. [Surface & Coatings Technology](#), *406*, 126650.
80. Flores, G., Flores-Gomez, G. D., Diaz, A., Penagos-Corzo, J. C., Iannitti, T., & Morales-Medina, J. C. (2021). Natural Products Present Neurotrophic Properties in Neurons of the Limbic System in Aging Rodents. [Synapse](#), *75*(2), e22185.
81. Fuentes-Garcia, J. A., Santoyo-Salzar, J., Rangel-Cortes, E., Goya, G. F., Cardozo-Mata, V., & Pescador-Rojas, J. A. (2021). Effect of Ultrasonic Irradiation Power on Sonochemical Synthesis of Gold Nanoparticles. [Ultrasonics Sonochemistry](#), *70*, 105274.

82. Alcantara-Zavala, A. E., Figueroa-Cardenas, J. D., Perez-Robles, J. F. , Arambula-Villa, G., & Miranda-Castilleja, D. E. (2021). Thermosonication as an Alternative Method for Processing, Extending the Shelf Life, and Conserving the Quality of Pulque : a Non-Dairy Mexican Fermented Beverage. [Ultrasonics Sonochemistry](#), *70*, 105290.
83. Poplavsky, A., Kudriavtsev, Y. , Kolpakov, A., Pilyuk, E., Manokhin, S. , & Goncharov, I. (2021). The Effect of Vacuum Annealing on the Structure and Properties of the Electrically Conductive a-Cn Coating. [Vacuum](#), *184*, 109919.

PUBLICADOS EN EXTENSO EN REVISTAS ESPECIALIZADAS CON ARBITRAJE O EN SERIES MONOGRÁFICAS CON ISSN

84. Jaramillo, O., Castillo-Toledo, B., & Di Gennaro, S. (2021). Robust Impulsive Observer-Based Stabilization for Uncertain Nonlinear Systems With Sampled-Output. [Ieee Control Systems Letters](#), *5*(3), 845-850.

CARTAS AL EDITOR, COMENTARIOS, EDITORIALES O CORRECCIONES PUBLICADOS EN REVISTAS

85. Concha, A., Alvarez-Icaza, L., & Garrido, R. (2021). Simultaneous Parameter and State Estimation of Shear Buildings (Vol 70, Pg 788, 2016). [Mechanical Systems and Signal Processing](#), *149*, 107288.
86. Blanton, R., Feinman, G., Kowalewski, S., & Fargher, L. (2021-2022). Moral Collapse and State Failure a View From the Past. [Natural History](#), *129*(1), 12-15.

REVISIONES PUBLICADAS EN REVISTAS INTERNACIONALES

87. Cruz-Navarro, A., Hernandez-Romero, D., Flores-Parra, A., Rivera, J. M., Castillo-Blum, S. E., & Colorado-Peralta, R. (2021). Structural Diversity and Luminescent Properties of Coordination Complexes Obtained From Trivalent Lanthanide Ions With the Ligands: Tris((1h-Benzo[D]Imidazol-2-Yl)Methyl)Amine and 2,6-Bis(1h-Benzo[D] Imidazol-2-Yl)Pyridine. [Coordination Chemistry Reviews](#), *427*, 213587.
88. Jimenez-Avalos, J. A., Arrevillaga-Boni, G., Gonzalez-Lopez, L., Garcia-Carvajal, Z. Y., & Gonzalez-Avila, M. (2021). Classical Methods and Perspectives for Manipulating the Human Gut Microbial Ecosystem. [Critical Reviews in Food Science and Nutrition](#), *61*(2), 234-258.
89. Shruti, V. C., Perez-Guevara, F., Elizalde-Martinez, I., & Kutralam-Muniasamy, G. (2021). Toward a Unified Framework for Investigating Micro(Nano)Plastics in Packaged Beverages Intended for Human Consumption. [Environmental Pollution](#), *268*, 115811.

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ARTÍCULOS PUBLICADOS DURANTE EL MES DE FEBRERO DE 2021

PUBLICADOS EN EXTENSO EN REVISTAS DE PRESTIGIO INTERNACIONAL CON ARBITRAJE ESTRICTO (INCLUIDAS EN JCR)

1. López-Hidalgo, A. M., Magana, G., Rodriguez, F., De Leon-Rodriguez, A., & Sanchez, A. (2021). Co-Production of Ethanol-Hydrogen by Genetically Engineered Escherichia Coli in Sustainable Biorefineries for Lignocellulosic Ethanol Production. [Chemical Engineering Journal](#), 406, 126829.
2. Sanchez-Portillo, P., Hernandez-Sirio, A., Godoy-Alcantar, C., Lacroix, P. G., Agarwal, V., Santillan, R., & Barba, V. (2021). Colorimetric Metal Ion (Ii) Sensors Based on Imine Boronic Esters Functionalized With Pyridine. [Dyes and Pigments](#), 186, 108991.
3. Jafari, R., Yu, W., Razvarz, S., & Gegov, A. (2021). Numerical Methods for Solving Fuzzy Equations: a Survey. [Fuzzy Sets and Systems](#), 404(Si), 1-22.
4. Ahrari, A., Elsayed, S., Sarker, R., Essam, D., & Coello, C. A. C. (2021). Weighted Pointwise Prediction Method for Dynamic Multiobjective Optimization. [Information Sciences](#), 546, 349-367
5. Colina-Ruiz, R. A., Hoy-Benitez, J. A., Lezama-Pacheco, J. S., De Leon, J. M., & Espinosa-Faller, F. J. (2021). Local Atomic Structure and Ni Nanophase Segregation in Zn1-Xnixs Thin Films. [Journal of Alloys and Compounds](#), 854, 157258.
6. Felix-Quintero, H., Falcony, C., Mariscal-Becerra, L., Mejia-Uriarte, E. V., Hernandez, A. J., Camarillo, E., Flores, C., & Murrieta, S. H. (2021). Mn²⁺-Yb³⁺ Back and Forth Energy Transfer by Super-Exchange Interaction in Bismuth Silicate Glass. [Journal of Luminescence](#), 230, 117733.
7. Campos-Gonzalez, E., Melendez-Lira, M., Arias-Ceron, J. S., Lozada-Morales, R., Mendoza-Alvarez, J. G., Melendez-Zamudio, M., Fernandez-Munoz, J. L., & Zelaya-Angel, O. (2021). White Photoluminescence Emission Using Cds + Cdco₃ Composite Thin Films. [Journal of Luminescence](#), 230, 117673.
8. Hernandez-Sanchez, A., Poznyak, A., Chairez, I., & Andrianova, O. (2021). Robust 3-D Autonomous Navigation of Submersible Ship Using Averaged Sub-Gradient Version of Integral Sliding Mode. [Mechanical Systems and Signal Processing](#), 149, 107169.
9. Galindo-Valdes, J. S., Cortes-Hernandez, D. A., Ortiz-Cuellar, J. C., De La O-Baquera, E., Escobedo-Bocardo, J. C., & Acevedo-Davila, J. L. (2021). Laser Deposition of Bioactive Coatings by in Situ Synthesis of Pseudowollastonite on Ti6al4v Alloy. [Optics and Laser Technology](#), 134, 106586.
10. Orozco-Lugo, A. G., Lara, M., Sandoval-Curmina, V., & Galvan-Tejada, G. M. (2021). Offered Load Estimation in Random Access Multipacket Perception Systems Using the Expectation-Maximization Algorithm. [Signal Processing](#), 179, 107827.
11. Concha, A., Alvarez-Icaza, L., & Garrido, R. (2021). Simultaneous Parameter and State Estimation of Shear Buildings (Vol 70, Pg 788, 2016). [Mechanical Systems and Signal Processing](#), 149, 107288.
12. Cordoba-Aguilar, A., Ibarra-Cerdena, C. N., Castro-Arellano, I., & Suzan, G. (2021). Tackling Zoonoses in a Crowded World: Lessons to Be Learned From the Covid-19 Pandemic. [Acta Tropica](#), 214, 105780.
13. Espinoza-Perez, L. J., Lopez-Honorato, E., Gonzalez, L. A., & Garcia-Montalvo, V. (2021). Comparative Study of Three Yttrium Organometallic Compounds for the Stabilization of the Cubic Phase in Ysz Deposited by Pe-Cvd. [Ceramics International](#), 47(4), 4611-4624.

14. Ramirez-Ceja, D., Gonzalez, L. A., & Pech-Canul, M. (2021). Cu₂ZnS₄ Nanoparticles Synthesized Via Reaction Media With Glycine. [Ceramics International](#), 47(4), 5071-5078.
15. De Anda, J., Huerta, E. F., Balderas, J. U., Righini, G. C., & Falcony, C. (2021). The Effect of Li⁺ Incorporation in Yb³⁺-Nd³⁺ Co-Doped CaF₂ Phosphors Over the NIR Photoluminescence Emission Excited Under Visible Light. [Ceramics International](#), 47(4), 4694-4701
16. Asiain, E., & Garrido, R. (2021). Anti-Chaos Control of a Servo System Using Nonlinear Model Reference Adaptive Control. [Chaos Solitons & Fractals](#), 143, 110581.
17. Xu, C. Q., Wang, J. L., Zhang, J., & Li, X. O. (2021). Anomaly Detection of Power Consumption in Yarn Spinning Using Transfer Learning. [Computers & Industrial Engineering](#), 152, 107015.
18. Arguelles-Jimenez, J., Rodriguez-Zaragoza, F. A., Gonzalez-Gandara, C., Alva-Basurto, J. C., Arias-Gonzalez, J. E. et al. (2021). Functional Developmental States of the Greater Caribbean Coral Reefs. [Ecological Indicators](#), 121, 107170.
19. Lin, Q. Z., Lin, W., Zhu, Z. X., Gong, M. G., Li, J. Q., & Coello, C. A. C. (2021). Multimodal Multiobjective Evolutionary Optimization With Dual Clustering in Decision and Objective Spaces. [Ieee Transactions on Evolutionary Computation](#), 25(1), 130-144.
20. Yam-Puc, J. C., Zhang, L. L., Maqueda-Alfaro, R. A., Garcia-Ibanez, L., Zhang, Y. et al. (2021). Enhanced Bcr Signaling Inflicts Early Plasmablast and Germinal Center B Cell Death. [Iscience](#), 24(2), 102038.
21. Estrada, E., Yu, W., & Li, X. (2021). Stable bilateral teleoperation with phase transition and haptic feedback. [Journal of the Franklin Institute-Engineering and Applied Mathematics](#), 358(3), 1940-1956.
22. Rodriguez-Garcia, M. A., Sanchez-Oro, J., Rodriguez-Tello, E., Monfroy, E., & Duarte, A. (2021). Two-Dimensional Bandwidth Minimization Problem: Exact and Heuristic Approaches. [Knowledge-Based Systems](#), 214, 106651.
23. Lin, W., Lin, Q., Ji, J., Zhu, Z., Coello-Coello, C. A., & Wong, K.-C. (2021). Decomposition-Based Multiobjective Optimization With Bicriteria Assisted Adaptive Operator Selection. [Swarm and Evolutionary Computation](#), 60, 100790.
24. Gonzalez-Valencia, R., Magana-Rodriguez, F., Martinez-Cruz, K., Fochesatto, G. J., & Thalasso, F. (2021). Spatial and Temporal Distribution of Methane Emissions From a Covered Landfill Equipped With a Gas Recollection System. [Waste Management](#), 121, 373-382.
25. Carrillo-Najar, C., Rembao-Bojorquez, D., Tena-Suck, M. L., Zavala-Vega, S., Gelista-Herrera, N. et al. (2021). Comparative Proteomic Study Shows the Expression of Hint-1 in Pituitary Adenomas. [Diagnostics](#), 11(2), 330.
26. Guzman-Herrera, E., & Breton, N. (2021). Euler-Heisenberg Waves Propagating in a Magnetic Background. [European Physical Journal C](#), 81(2), 115.
27. Parra-Paz, V. G., Calderon-Sauri, A., Granados-Patron, D., Cuevas-Carbonell, S. G., Garcia-Lopez, D. et al. (2021). Chronic Feeding With 3% Dried Raw Blueberries (*V. Corymbosum*) Reduces Apomorphine-Induced Rotations and Striatal Dopaminergic Loss in Hemiparkinsonian Rats. [Food Research International](#), 140, 110066.
28. Diaz-Garcia, L., Garcia-Ortega, L. F., Gonzalez-Rodriguez, M., Delaye, L., Iorizzo, M., & Zalapa, J. (2021). Chromosome-Level Genome Assembly of the American Cranberry (*Vaccinium Macrocarpon* Ait.) And Its Wild Relative *Vaccinium Microcarpum*. [Frontiers in Plant Science](#), 12, 633310.
29. Arce-Rodriguez, M. L., Martinez, O., & Ochoa-Alejo, N. (2021). Genome-Wide Identification and Analysis of the Myb Transcription Factor Gene Family in Chili Pepper (*Capsicum* Spp.). [International Journal of Molecular Sciences](#), 22(5), 2229.

30. Perez, S., Munoz-Sadana, J., Acelas, N., & Florez, E. (2021). Phosphate Removal From Aqueous Solutions by Heat Treatment of Eggshell and Palm Fiber. [Journal of Environmental Chemical Engineering](#), 9(1), 104684.
31. Acharya, S., Acosta, F. T., Adam, J., Adamova, D., Adler, A. et al. (2021). Centrality Dependence of J/Psi and Psi(2s) Production and Nuclear Modification in P-Pb Collisions at $\sqrt{s_{NN}}=8.16$ TeV. [Journal of High Energy Physics](#), (2), 2.
32. Fortuna, F., Roig, P., & Wudka, J. (2021). Effective Field Theory Analysis of Dark Matter-Standard Model Interactions With Spin One Mediators. [Journal of High Energy Physics](#), (2), 223.
33. Clempner, J. B., & Poznyak, A. S. (2021). Analytical Method for Mechanism Design in Partially Observable Markov Games. [Mathematics](#), 9(4), 321.
34. Ruiz-Tamayo, J., Vazquez-Lopez, J. A., Ruelas-Santoyo, E. A., Hernandez-Lopez, A., Lopez-Juarez, I., & Rios-Lira, A. J. (2021). Multivariate Pattern Recognition in Mspc Using Bayesian Inference. [Mathematics](#), 9(4), 306.
35. Ibarra-Nuno, C., Rodriguez, A., Alejo-Reyes, A., Cuevas, E., Ramirez, J. M., Rosas-Caro, J. C., & Robles-Campos, H. R. (2021). Optimal Operation of the Voltage-Doubler Boost Converter Through an Evolutionary Algorithm. [Mathematics](#), 9(4), 423.
36. Chinas-Sanchez, P., Lopez-Juarez, I., Vazquez-Lopez, J. A., Navarro-Gonzalez, J. L., & Hernandez-Lopez, A. (2021). Out-of-Control Multivariate Patterns Recognition Using D-2 and Svm: a Study Case for Gmaw. [Mathematics](#), 9(5), 467.
37. Avila-Lopez, P. A., Guerrero, G., Nunez-Martinez, H. N., Peralta-Alvarez, C. A., Hernandez-Montes, G. et al. (2021). H2a.z Overexpression Suppresses Senescence and Chemosensitivity in Pancreatic Ductal Adenocarcinoma. [Oncogene](#), 40(11), 2065-2080.
38. Mendoza-Galvan, A., Mendez-Lara, J. G., Mauricio-Sanchez, R. A., Jarrendahl, K., & Arwin, H. (2021). Effective Absorption Coefficient and Effective Thickness in Attenuated Total Reflection Spectroscopy. [Optics Letters](#), 46(4), 872-875.
39. Winkler, R. (2021). Meteomex: Open Infrastructure for Networked Environmental Monitoring and Agriculture 4.0. [Peerj Computer Science](#), 7, e343.
40. Venzor, J., Perez-Lorenzana, A., & De-Santiago, J. (2021). Bounds on Neutrino-Scalar Nonstandard Interactions From Big Bang Nucleosynthesis. [Physical Review D](#), 103(4), 043534.
41. Acharya, S., Adamova, D., Adler, A., Adolfsson, J., Aggarwal, M. M. et al. (2021). Pion-Kaon Femtoscopy and the Lifetime of the Hadronic Phase in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. [Physics Letters B](#), 813, 136030.
42. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambroggi, F., Bergauer, T. et al. (2021). Studies of Charm and Beauty Hadron Long-Range Correlations in Pp and Ppb Collisions at Lhc Energies. [Physics Letters B](#), 813, 136036.
43. Acharya, S., Adamova, D., Adler, A., Adolfsson, J., Aggarwal, M. M. et al. (2021). Transverse-Momentum and Event-Shape Dependence of D-Meson Flow Harmonics in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. [Physics Letters B](#), 813, 136054.
44. Pacheco-Hernandez, Y., Villa-Ruano, N., Lozoya-Gloria, E., Barrales-Cortes, C. A., Jimenez-Montejo, F. E., & Cruz-Lopez, M. D. (2021). Influence of Environmental Factors on the Genetic and Chemical Diversity of Brickellia Veronicifolia Populations Growing in Fragmented Shrublands From Mexico. [Plants-Basel](#), 10(2), 325.
45. Can-Herrera, L. A., Oliva, A. I., Dzul-Cervantes, M. A. A., Pacheco-Salazar, O. F., & Cervantes-Uc, J. M. (2021). Morphological and Mechanical Properties of Electrospun Polycaprolactone Scaffolds: Effect of Applied Voltage. [Polymers](#), 13(4), 662.

46. Ascencio, D., Diss, G., Gagnon-Arsenault, I., Dube, A. K., Deluna, A., & Landry, C. R. (2021). Expression Attenuation as a Mechanism of Robustness Against Gene Duplication. [Proceedings of the National Academy of Sciences of the United States of America](#), 118(6), e2014345118.
47. Lopez-Lima, D., Mtz-Enriquez, A. I., Carrion, G., Basurto-Cereceda, S., & Pariona, N. (2021). The bifunctional role of copper nanoparticles in tomato: Effective treatment for Fusarium wilt and plant growth promoter. [Scientia Horticulturae](#), 277, 109810.
48. Valdez-Tah, A., & Ibarra-Cerdena, C. N. (2021). Call to Action: a Literature Review of Chagas Disease Risk in California 1916-2018. [Plos Neglected Tropical Diseases](#), 15(2), e0009035.

ARTÍCULOS PUBLICADOS DURANTE EL MES DE MARZO DE 2021

PUBLICADOS EN EXTENSO EN REVISTAS DE PRESTIGIO INTERNACIONAL CON ARBITRAJE ESTRICTO (INCLUIDAS EN JCR)

1. Hernandez-Contreras, X. A., Zumeta-Dube, I., Gattorno, G. R., Castro, N. C., Espinola, J. L. C., & Reguera, E. (2021). Unraveling Amazing Structural Features of a Highly Efficient "Oxo-Co/Phosphate" Catalyst for Water Oxidation. [Applied Catalysis B-Environmental](#), 282, 119549.
2. Jimenez-Avalos, J. A., Arrevillaga-Boni, G., Gonzalez-Lopez, L., Garcia-Carvajal, Z. Y., & Gonzalez-Avila, M. (2021). Classical Methods and Perspectives for Manipulating the Human Gut Microbial Ecosystem. [Critical Reviews in Food Science and Nutrition](#), 61(2), 234-258.
3. Ahrari, A., Elsayed, S., Sarker, R., Essam, D., & Coello-Coello, C. A. (2021). A Heredity-Based Adaptive Variation Operator for Reinitialization in Dynamic Multi-Objective Problems. [Applied Soft Computing](#), 101, 107027.
4. Cortazar-Martinez, O., Torres-Ochoa, J. A., Rabono-Borbolla, J. G., & Herrera-Gomez, A. (2021). Oxidation Mechanism of Metallic Chromium at Room Temperature. [Applied Surface Science](#), 542, 148636.
5. De Leon-Prado, L. E., Cortes-Hernandez, D. A., EscobedoBocardo, J. C., & Hurtado-Lopez, G. F. (2021). Influence of the Heat Treatment Conditions on the Properties of Gallium-Strontium-Substituted Manganese Ferrites Designed for Magnetic Hyperthermia Applications. [Ceramics International](#), 47(5), 7069-7080.
6. Rodriguez-Hernandez, P. E., Quinones-Galvan, J. G., Melendez-Lira, M., Santos-Cruz, J., Contreras-Puente, G., Guillen-Cervantes, A., & De Moure-Flores, F. (2021). Amorphous Copper Sulfide Films Deposited by Pulsed Laser Deposition Using Pellets as Target. [Journal of Non-Crystalline Solids](#), 555, 120532.
7. Hernandez-Avila, I., Pech, D., Ocana, F. A., Arcega-Cabrera, F., & Enriquez, C. (2021). Shelf and deep-water benthic macrofauna assemblages from the western Gulf of Mexico: Temporal dynamics and environmental drivers. [Marine Environmental Research](#), 165, 105241.
8. Padilla, L. E., Solis-Lopez, J., Matos, T., & Avilez-Lopez, A. A. (2021). Consequences for the Scalar Field Dark Matter Model From the Mcgaugh Observed-Baryon Acceleration Correlation. [Astrophysical Journal](#), 909(2), 162.
9. Romero-Trejo, D., Mejia-Rodriguez, R., Sierra-Mondragon, E., Navarrete, A., Perez-Tapia, M., Gonzalez, R. O., & Segovia, J. (2021). The Systemic Administration of Neural Stem Cells Expressing an Inducible and Soluble Form of Growth Arrest Specific 1 Inhibits Mammary Gland Tumor Growth and the Formation of Metastases. [Cytotherapy](#), 23(3), 223-235.
10. Andreev, V., Baghdasaryan, A., Baty, A., Begzsuren, K., Belousov, A. et al. (2021). Measurement of Charged Particle Multiplicity Distributions in Dis at Hera and Its Implication to Entanglement Entropy of Partons: H1 Collaboration. [European Physical Journal C](#), 81(3), 212.

11. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambrogi, F., Asilar, E. et al. (2021). Measurements of $Pp \rightarrow Z\gamma$ Production Cross Sections and Constraints on Anomalous Triple Gauge Couplings at $\sqrt{s}=13$ TeV. [European Physical Journal C](#), 81(3), 200.
12. Macias-Garcia, E., Galeana-Perez, D., Medrano-Hermosillo, J., & Bayro-Corrochano, E. (2021). Multi-Stage Deep Learning Perception System for Mobile Robots. [Integrated Computer-Aided Engineering](#), 28(2), 191-205.
13. Gutierrez-Menchaca, J., Torres-Torres, D., Barajas-Aguilar, A. H., Jimenez-Sandoval, S. J., & Garay-Tapia, A. M. (2021). Determination of Mechanical and Vibrational Properties of the Sr (Zn_{1-x}Al_x)₁₃ [Intermetallic Compound](#). *Intermetallics*, 130, 107056.
14. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambrogi, F., Bergauer, T. et al. (2021). Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Leptonic $W\gamma$ Decay Mode at $\sqrt{s}=13$ TeV. [Journal of High Energy Physics](#), (3), 3.
15. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambrogi, F., Asilar, E. et al. (2021). Search for Dark Photons in Higgs Boson Production Via Vector Boson Fusion in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. [Journal of High Energy Physics](#), (3), 11.
16. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambrogi, F., Asilar, E. et al. (2021). Search for New Physics in Top Quark Production With Additional Leptons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV Using Effective Field Theory. [Journal of High Energy Physics](#), (3), 95.
17. Forero-Sossa, P. A., Olvera-Alvarez, I. U., Salazar-Martinez, J. D., Espinosa-Arbelaez, D. G., Segura-Giraldo, B., & Giraldo-Betancur, A. L. (2021). Biogenic Hydroxyapatite Powders: Effects of Source and Processing Methodologies on Physicochemical Properties and Bioactive Response. [Materials Characterization](#), 173, 110950.
18. Padilla, L. E., Rindler-Daller, T., Shapiro, P. R., Matos, T. & Vazquez, J. A. (2021). Core-Halo Mass Relation in Scalar Field Dark Matter Models and Its Consequences for the Formation of Supermassive Black Holes. [Physical Review D](#), 103(6), 063012.
19. Martinez, O., Arce-Rodriguez, M. L., Hernandez-Godinez, F., Escoto-Sandoval, C., Cervantes-Hernandez, F. et al. (2021). Transcriptome analyses throughout chili pepper fruit development reveal novel insights into the domestication process. [Plants-Basel](#), 10(3), 585.
20. Perez-Franco, J. C., Torres-Ruiz, J., Sosa-Hernandez, V. A., Cervantes-Diaz, R., Romero-Ramirez, S. et al. (2021). Metabolomics analysis reveals a modified amino acid metabolism that correlates with altered oxygen homeostasis in COVID-19 patients. [Scientific Reports](#), 11(1), 6350.
21. Banik, S. D. (2021). Association of Hypertension With Dietary Habits and Lipid Profile Parameters Among Dhimal Adults From Darjeeling in West Bengal, India. [American Journal of Physical Anthropology](#), 174(Si), 24.
22. Christopher, L., Azcorra, H., Dickinson, F., Kramer, K., Varela-Silva, I., & Veile, A. (2021). Differences in Growth and Body Composition Between Rural and Urban

-
- Maya Children From the Yucatan Peninsula: the Importance of Early-Life Conditions. [American Journal of Physical Anthropology](#), 174(Si), 19.
23. Arcos, M. C. A., Romero, G. S., Moreno-Estrada, A., Bustamante, C. D., & Feldman, M. W. (2021). Ethical Considerations and Community Engagement Experiences of the Afromexico Genomics Project. [American Journal of Physical Anthropology](#), 174(Si), 6-7.
24. Ioannidis, A. G., Blanco-Portillo, J., Sandoval, K., Hagelberg, E., Miquel-Poblete, J. F. et al. (2021). Reconstructing Ancient Migrations From Modern Genomes Across Latin America and the Pacific. [American Journal of Physical Anthropology](#), 174(Si), 50.
25. Ioannidis, A. G., Blanco-Portillo, J., Sandoval, K., Hagelberg, E., Miquel-Poblete, J. F. et al. (2021). Reconstructing Ancient Migrations From Modern Genomes Across Latin America and the Pacific. [American Journal of Physical Anthropology](#), 174(Si), 50.
26. Avila-Calderon, E. D., Ruiz-Palma, M. D., Aguilera-Arreola, M. G., Velazquez-Guadarrama, N., Ruiz, E. A., Gomez-Lunar, Z., Witonsky, S., & Contreras-Rodriguez, A. (2021). Outer Membrane Vesicles of Gram-Negative Bacteria: an Outlook on Biogenesis. [Frontiers in Microbiology](#), 12, 557902.
27. Guzman-Sepulveda, J. R., Guzman-Cabrera, R., & Castillo-Guzman, A. A. (2021). Optical Sensing Using Fiber-Optic Multimode Interference Devices: a Review of Nonconventional Sensing Schemes. [Sensors](#), 21(5), 1862.

ARTÍCULOS PUBLICADOS DURANTE EL MES DE ABRIL DE 2021

PUBLICADOS EN EXTENSO EN REVISTAS DE PRESTIGIO INTERNACIONAL CON ARBITRAJE Estricto (INCLUIDAS EN JCR)

1. Silva-Juarez, A., Tlelo-Cuautle, E., De La Fraga, L. G., & Li, R. (2021). Optimization of the Kaplan-Yorke Dimension in Fractional-Order Chaotic Oscillators by Metaheuristics. [Applied Mathematics and Computation](#), 394, 125831.
2. Alfaro, C. A., & Villagran, R. R. (2021). The Structure of Sandpile Groups of Outerplanar Graphs. [Applied Mathematics and Computation](#), 395, 125861.
3. Martinez-Aguilar, K., Hernandez-Chavez, J. L., & Alvarez-Venegas, R. (2021). Priming of seeds with INA and its transgenerational effect in common bean (*Phaseolus vulgaris* L.) plants. [Plant Science](#), 305, 110834.
4. Randazzo-Eisemann, A., Arias-Gonzalez, J. E., Velez, L., McField, M., & Mouillot, D. (2021). The last hotspots of structural complexity as conservation targets in the Mesoamerican Coral Reef. [Biological Conservation](#), 256, 109021.
5. Rendon-Angeles, J. C., Quinones-Gurrola, J. R., Lopez-Cuevas, J., Gonzalez, L. A., Matamoros-Veloza, Z. et al. (2021). Rapid One-Pot Hydrothermal Reaction for Preparing BaCu₂Si₂O₇ Fine Particles With Controlled Blue Colour Tonality. [Ceramics International](#), 47(7), 9354-9365.
6. Ortega-Zavala, D. E., Burciaga-Diaz, O., & Escalante-Garcia, J. I. (2021). Chemically bonded ceramic/cementitious materials of alkali activated metakaolin processed by cold pressing. [Construction and Building Materials](#), 279, 121365.
7. Gamboa-Loira, B., Cebrian, M. E., & Lopez-Carrillo, L. (2021). Physical activity, body mass index and arsenic metabolism among Mexican women. [Environmental Research](#), 195, 110869.
8. Martinez-Saucedo, G., Torres-Delgado, G., Marquez-Marin, J., Zelaya-Angel, O., & Castanedo-Perez, R. (2021). Copper Oxide and Tin Oxide Amorphous-Thin-Film Heterojunction Diodes Obtained Via Solution-Based Techniques With Increased Rectification After Rapid Thermal Annealing Treatments. [Journal of Alloys and Compounds](#), 859, 157790.
9. Casallas-Moreno, Y. L., Ramirez-Lopez, M., Villa-Martinez, G., Martinez-Lopez, A. L., Macias, M., Cruz-Orea, A., De La Cruz, G. G., Tomas, S. A., Rodriguez-Fragoso, P., Herrera-Perez, J. L., & Mendoza-Alvarez, J. G. (2021). Effect of the Sb Content and the N- and P - Gasb(100) Substrates on the Physical and Chemical Properties of Insbxas_{1-X} Alloys for Mid-Infrared Applications: Analysis of Surface, Bulk and Interface. [Journal of Alloys and Compounds](#), 861, 157936.
10. Gomez-Flores, W., & Sossa, H. (2021). Smooth dendrite morphological neurons. [Neural Networks](#), 136, 40-53.
11. Acharya, S., Adamová, D., Adler, A., Adolfsson, J., Aggarwal, M. M. et al. (2021). First measurement of quarkonium polarization in nuclear collisions at the LHC. [Physics Letters B](#), 815, 136146.

ARTÍCULOS PUBLICADOS DURANTE EL MES DE ABRIL DE 2021

PUBLICADOS EN EXTENSO EN REVISTAS DE PRESTIGIO INTERNACIONAL CON ARBITRAJE Estricto (INCLUIDAS EN JCR)

1. Kravchenko, V. V., Moreira, P. E., & Porter, R. M. (2021). Complete Systems of Beltrami Fields Using Complex Quaternions and Transmutation Theory. [Advances in Applied Clifford Algebras](#), 31(3), 31.
2. De Obaldia, E. I., Alcantar-Pena, J. J., Wittel, F. P., Veyan, J. F., Gallardo-Hernandez, S., Koudriavtsev, Y., Berman-Mendoza, D., & Auciello, O. (2021). Study of Atomic Hydrogen Concentration in Grain Boundaries of Polycrystalline Diamond Thin Films. [Applied Sciences-Basel](#), 11(9), 3990.
3. Aranda, D. A., Enriquez-Diaz, M., Gonzalez-Lopez, W., Mansot, J. L., & Gros, O. (2021). Larval Calcification and Growth of Veligers to Early Pediveliger of the Queen Conch *Strombus Gigas* in Mesocosm and Laboratory Conditions. [Aquaculture International](#), 29(3), 1279-1294.
4. Chazaro, L. (2021). Ghosts of Spanish Science. [Arbor-Ciencia Pensamiento Y Cultura](#), 197(799), a598.
5. Aguilar, Y., Bautista, F., Quintana, P., Aguilar, D., Trejo-Tzab, R., Goguitchaichvili, A., & Chan-Te, R. (2021). Color as a New Proxy Technique for the Identification of Road Dust Samples Contaminated With Potentially Toxic Elements: the Case of Merida, Yucatan, Mexico. [Atmosphere](#), 12(4), 483.
6. Perez-Torres, C. A., Ibarra-Laclette, E., Hernandez-Dominguez, E. E., Rodriguez-Haas, B., Perez-Lira, A. J. et al. (2021). Molecular Evidence of the Avocado Defense Response to *Fusarium Kuroshium* Infection: a Deep Transcriptome [Analysis Using Rna-Seq. PeerJ](#), 9, 11215.
7. Santana-Cisneros, M. L., Rodriguez-Canul, R., Zamora-Briseno, J. A., Amendola-Pimenta, M., De Silva-Davila, R., Ordonez-Lopez, U., Velazquez-Abunader, I., & Ardisson, P. L. (2021). Morphological and Molecular Identification of Octopoda (Mollusca: Cephalopoda) Paralarvae From the Southern Gulf of Mexico. [Bulletin of Marine Science](#), 97(2), 281-304.
8. Piedras, J., Dominguez, R. B., & Gutierrez, J. M. (2021). Determination of Uric Acid in Artificial Saliva With Compact Amp3291 Reader and Au Nanoparticles Modified Electrode. [Chemosensors](#), 9(4), 73.
9. Ramirez-Chan, D. E., Frontana, C., & Gonzalez, F. J. (2021). Electrografting of Carbon Surfaces With Aliphatic Chains and Its Effect on the Rectification of Ferrocene as Redox Probe in Solution. [Chemphyschem](#), 22(10), 944-951.
10. Suarez-Mozo, N. Y., Vidal-Martinez, V. M., Aguirre-Macedo, M. L., Pech, D., Guerra-Castro, E., & Simoes, N. (2021). Bivalve Diversity on the Continental Shelf and Deep Sea of the Perdido Fold Belt, Northwest Gulf of Mexico, Mexico. [Diversity-Basel](#), 13(4), 166.
11. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambroggi, F., Bergauer, T. et al. (2021). Development and Validation of Herwig 7 Tunes From Cms Underlying-Event Measurements. [European Physical Journal C](#), 81(4), 312.
12. Sirunyan, A. M., Tumasyan, A., Adam, W., Bergauer, T., Dragicevic, M. et al. (2021). Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at root s = 13 TeV. [European Physical Journal C](#), 81(4), 378.
13. Wang, M. H., Orozco-Ic, M., Leyva-Parra, L., Tiznado, W., Barroso, J., Ding, Y. H., Cui, Z. H., & Merino, G. (2021). [Planar Tetracoordinate Carbons in Allene-Type Structures](#). *Journal of Physical Chemistry a*, 125(14), 3009-3014.
14. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambroggi, F., Asilar, E. et al. (2021). Search for Dark Matter Produced in Association With Avleptonically Decaying Z Boson in Proton-Proton Collisions at Root S = 13 Tev (Vol 81, 13, 2021). [European Physical Journal C](#), 81(4), 333.

15. Abi, B., Acciarri, R., Acero, M. A., Adamov, G., Adams, D. et al. (2021). Prospects for Beyond the Standard Model Physics Searches at the Deep Underground Neutrino Experiment DUNE Collaboration. *European Physical Journal C*, 81(4).
16. Abrego-Gacia, A., Poggi-Varaldo, H. M., Mendoza-Vargas, A., Mercado-Valle, F. G., Rios-Leal, E., Ponce-Noyola, T., & Calva-Calva, G. (2021). Effects of Fermented Oat Straw as a Lovastatin Carrier on in Vitro Methane Production and Rumen Microbiota. *Frontiers in Energy Research*, 9, 630701.
17. Estrada, N., Nunez-Vazquez, E. J., Palacios, A., Ascencio, F., Guzman-Villanueva, L., & Contreras, R. G. (2021). In Vitro Evaluation of Programmed Cell Death in the Immune System of Pacific Oyster *Crassostrea Gigas* by the Effect of Marine Toxins. *Frontiers in Immunology*, 12, 634497.
18. Gallegos, O., & Matos, T. (2021). Weak Gravitational Quantum Effects in Boson Particles. *General Relativity and Gravitation*, 53(4), 50.
19. Marsal, L. F., Escobosa, A., Iniguez, B., & Guarin, F. (2021). Foreword Special Issue on the 2nd Latin American Electron Device Conference. *Ieee Journal of the Electron Devices Society*, 9, 447-449.
20. Lam-Gutierrez, A., Winkler, R., Garrido-Ramirez, E. R., Rincon-Rosales, R., Gutierrez-Miceli, F. A., Pena-Ocana, B. A., Guzman-Albores, J. M., & Ruiz-Valdiviezo, V. M. (2021). Antifungal Activity of Root Extracts from *Baccharis salicina* on Germination of Uredospores of *Hemileia vastatrix*. *International Journal of Agriculture and Biology*, 25(5), 1075-1084.
21. Martin-Hernandez, R., Rodriguez-Canul, R., Kantun-Moreno, N., Olvera-Novoa, M. A., Medina-Contreras, O. et al. (2021). Comparative Transcriptomes of the Body Wall of Wild and Farmed Sea Cucumber *Isostichopus Badionotus*. *International Journal of Molecular Sciences*, 22(8), 3882.
22. Escalona-Montano, A. R., Zuniga-Fabian, M., Cabrera, N., Mondragon-Flores, R., Gomez-Sandoval, J. N. et al. (2021). Protein Serine/Threonine Phosphatase Type 2c of *Leishmania Mexicana*. *Frontiers in Cellular and Infection Microbiology*, 11, 641356.
23. Chao-Mujica, F. J., Garcia-Hernandez, L., Camacho-Lopez, S., Camacho-Lopez, M., Camacho-Lopez, M. A. et al. (2021). Carbon Quantum Dots by Submerged Arc Discharge in Water: Synthesis, Characterization, and Mechanism of Formation. *Journal of Applied Physics*, 129(16), 163301.
24. Galindo-Urbe, C. D., Calaminici, P., Cruz-Martinez, H., Cruz-Olvera, D., & Solorza-Feria, O. (2021). First-Principle Study of the Structures, Growth Pattern, and Properties of $(Pt_{3Cu})_N$, $N=1-9$, Clusters. *Journal of Chemical Physics*, 154(15), 154302.
25. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambrogio, F., Asilar, E. et al. (2021). Angular Analysis of the Decay $B^{+-} \rightarrow K^{*}(892)^{+} \mu^{+} \mu^{-}$ in Proton-Proton Collisions at Root $S=8$ Tev. *Journal of High Energy Physics*, (4).
26. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambrogio, F., Asilar, E. et al. (2021). Search for Supersymmetry in Final States With Two Oppositely Charged Same-Flavor Leptons and Missing Transverse Momentum in Proton-Proton Collisions at Root $S=13$ Tev. *Journal of High Energy Physics*, (4), 123.
27. Burgos-Reyes, M. A., Baylon-Pacheco, L., Espiritu-Gordillo, P., Galindo-Gomez, S., Tsutsumi, V., & Rosales-Encina, J. L. (2021). Effect of Prophylactic Vaccination With the Membrane-Bound Acid Phosphatase Gene of *Leishmania Mexicana* in the Murine Model of Localized Cutaneous Leishmaniasis. *Journal of Immunology Research*, 2021, 6624246.
28. Aab, A., Abreu, P., Aglietta, M., Albury, J. M., Allekotte, I. et al. (2021). Calibration of the Underground Muon Detector of the Pierre Auger Observatory. *Journal of Instrumentation*, 16(4), P04003.
29. Hadjiiska, R., Samalan, A., Tytgat, M., Zaganidis, N., Alves, G. A. et al. (2021). Cms Rpc Background - Studies and Measurements. *Journal of Instrumentation*, 16(4), P04005.
30. Shchablo, K., Samalan, A., Tytgat, M., Zaganidis, N., Alves, G. A. et al. (2021). Front-End Electronics for Cms Irpc Detectors. *Journal of Instrumentation*, 16(5), C05002.
31. Meola, S., Samalan, A., Tytgat, M., Zaganidis, N., Alves, G. A. et al. (2021). Towards a Two-Dimensional Readout of the Improved Cms Resistive Plate Chamber With a New Front-End Electronics. *Journal of Instrumentation*, 16(4), P04001.

32. Guerrero, A. L., Rebollo-Plata, B., Gallegos, J. H. G., Uribe, D. B., Altamirano, M. A. G., & Cabal-Velarde, J. G. (2021). Study of Bamboo-Type Carbon Nanotubes With Magnetic Iron Carbide Nanoparticles Fabricated by a Modified Cvd Method. [Journal of Nanoparticle Research](#), 23(4), 94.
33. Otvos, K., Miskolczi, P., Marhavy, P., Cruz-Ramirez, A., Benkova, E., Robert, S., & Bako, L. (2021). Pickle Recruits Retinoblastoma Related 1 to Control Lateral Root Formation in Arabidopsis. [International Journal of Molecular Sciences](#), 22(8), 3862.
34. Navarro-Hernandez, I. C., Acevedo-Ochoa, E., Juarez-Vega, G., Meza-Sanchez, D. E., Hernandez-Hernandez, J. M., & Maravillas-Montero, J. L. (2021). Size Determination and Phenotypic Analysis of Urinary Extracellular Vesicles Using Flow Cytometry. [Jove-Journal of Visualized Experiments](#), (170), e61695.
35. Santos-Trigo, M., Barrera-Mora, F., & Camacho-Machin, M. (2021). Teachers' Use of Technology Affordances to Contextualize and Dynamically Enrich and Extend Mathematical Problem-Solving Strategies. [Mathematics](#), 9(8), 793.
36. Ku-Cauich, J. C., & Marquez-Hidalgo, M. A. (2021). Three Authentication Schemes Without Secrecy Over Finite Fields and Galois Rings. [Mathematics](#), 9(9), 942.
37. Resendiz-Flores, E. O., Altamirano-Guerrero, G., Costa, P. S., Salas-Reyes, A. E., Salinas-Rodriguez, A., & Goodwin, F. (2021). Optimal Design of Hot-Dip Galvanized Dp Steels Via Artificial Neural Networks and Multi-Objective Genetic Optimization. [Metals](#), 11(4), 578.
38. Arroyo-Olarte, R. D., Rodriguez, R. B., & Morales-Rios, E. (2021). Genome Editing in Bacteria: Crispr-Cas and Beyond. [Microorganisms](#), 9(4), 844.
39. Medina-Carrillo, B., & Sanchez-Colon, G. (2021). Strong Interaction Coupling-Constant Sum Rules With Broken $Su(3)$ Symmetry for Heavy Baryons $B(Qqq')$. [Modern Physics Letters a](#), 36(11), 2150078.
40. Lopez-Lopez, E., Cerda-Garcia-Rojas, C. M., & Medina-Franco, J. L. (2021). Tubulin Inhibitors: a Chemoinformatic Analysis Using Cell-Based Data. [Molecules](#), 26(9), 2483.
41. Nayfach, S., Roux, S., Seshadri, R., Udworthy, D., Varghese, N. et al. (2021). A genomic catalog of Earth's microbiomes. [Nature Biotechnology](#), 39(4), 499-509.
42. Nayfach, S., Roux, S., Seshadri, R., Udworthy, D., Varghese, N. et al. (2021). Author Correction: A genomic catalog of Earth's microbiomes. [Nature Biotechnology](#), 39(4), 521.
43. Sandoval, O. O. (2021). The Scientific Images of the Axolotl by Jose Maria Velasco and Their Role in Nineteenth-Century Evolutionary Thinking. [Nuncius-Journal of the History of Science](#), 36(1), 143-166.
44. Del Aguila, J. C., & Matos, T. (2021). Gravitational perturbations in the Newman-Penrose formalism: Applications to wormholes. [Physical Review D](#), 103(8), 084033.
45. Quiros, I., De Arcia, R., Garcia-Salcedo, R., Gonzalez, T., Linares-Cedeno, F. X., & Nucamendi, U. (2021). Quantum origin of inflation in the geometric inflation model. [Physical Review D](#), 103(6), 064043.
46. Solis-Lopez, J., Guzman, F. S., Matos, T., Robles, V. H., & Urena-Lopez, L. A. (2021). Scalar Field Dark Matter as an Alternative Explanation for the Anisotropic Distribution of Satellite Galaxies. [Physical Review D](#), 103(8), 083535.
47. Aab, A., Abreu, P., Aglietta, M., Albury, J. M., Allekotte, I. et al. (2021). Measurement of the Fluctuations in the Number of Muons in Extensive Air Showers with the Pierre Auger Observatory. [Physical Review Letters](#), 126(15), 152002.
48. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambrogio, F., Asilar, E. et al. (2021). Measurement of Differential Cross Sections for Z Bosons Produced in Association With Charm Jets in Pp Collisions at Root $S=13$ Tev. [Journal of High Energy Physics](#), (4).
49. Herrera-Isidron, L., Valencia-Lozano, E., Rosiles-Loeza, P. Y., Robles-Hernandez, M. G., Napsuciale-Heredia, A., & Cabrera-Ponce, J. L. (2021). Gene expression analysis of microtubers of potato solanum tuberosum l. Induced in cytokinin containing medium and osmotic stress. [Plants-Basel](#), 10(5), 876.
50. Gomez-Felipe, A., Kierzkowski, D., & De Folter, S. (2021). The Relationship Between Agamous and Cytokinin Signaling in the Establishment of Carpeloid Features. [Plants-Basel](#), 10(5).

-
51. Pardo-Novoa, J. C., & Cerda-Garcia-Rojas, C. M. (2021). New Techniques of Structure Elucidation for Sesquiterpenes. A. D. Kinghorn, H. Falk, S. Gibbons, J. Kobayashi, Y. Asakawa, & J. K. Liu (eds.), [Progress in the chemistry of organic natural products](#) (Vol. 114pp. 253-311).
 52. Salazar-Lopez, T. I., Jimenez-Taboada, N., & Guerra-Ramos, M. T. (2021). Argumentative Skills in Service Teacher Training: the Context of Chagas Disease. [Revista Eureka Sobre Ensenanza Y Divulgacion De Las Ciencias](#), 18(2), 2602.
 53. Garcia-Rodriguez, R., & Parra-Vega, V. (2021). In-Hand Manipulation of a Circular Dynamic Object by Soft Fingertips Without Angle Measurement. [Science China-Information Sciences](#), 64(5), 152209.
 54. Morales, R. Y. V., Cisneros, S. O., Perez, J. R. C., Ibarra, F. S., & Carrillo, R. C. (2021). 3d Simulation-Based Acoustic Wave Resonator Analysis and Validation Using Novel Finite Element Method Software. [Sensors](#), 21(8), 2715.
 55. Castellanos-Basto, B., Herrera-Silveira, J., Bataller, E., & Rioja-Nieto, R. (2021). Local drivers associated to temporal spectral response of chlorophyll-a in mangrove leaves. [Sustainability](#), 13(9), 4636.
 56. Hostas, J., Tchagang, A., Lourenco, M. P., Koster, A. M., & Salahub, D. R. (2021). Global Optimization of Similar to 1 Nm Mos2 and Caco3 Nanoparticles. [Theoretical Chemistry Accounts](#), 140(4), 44.
 57. Cruz-Martinez, H., Cervantes-Flores, A., Solorza-Feria, O., Medina, D. I., & Calaminici, P. (2021). On the Growth Behavior, Structures, Energy, and Magnetic Properties of Bimetallic Mnpdn (M = Co, Ni; N=1-10) Clusters. [Theoretical Chemistry Accounts](#), 140(5), 45.
 58. De Jesus-Gonzalez, L. A., Palacios-Rapalo, S., Reyes-Ruiz, J. M., Osuna-Ramos, J. F., Cordero-Rivera, C. D., Farfan-Morales, C. N., Gutierrez-Escolano, A. L., & Del Angel, R. M. (2021). The Nuclear Pore Complex Is a Key Target of Viral Proteases to Promote Viral Replication. [Viruses-Basel](#), 13(4), 706.

ARTÍCULOS PUBLICADOS DURANTE EL MES DE MAYO DE 2021

PUBLICADOS EN EXTENSO EN REVISTAS DE PRESTIGIO INTERNACIONAL CON ARBITRAJE Estricto (INCLUIDAS EN JCR)

1. Urcadiz-Cazares, F. J., Cruz-Escalona, V. H., Peterson, M. S., Aguilar-Medrano, R., Marin-Enriquez, E. et al. (2021). Linking Habitat and Associated Abiotic Conditions to Predict Fish Hotspots Distribution Areas Within La Paz Bay: Evaluating Marine Conservation Areas. [Diversity-Basel](#), 13(5), 212.
2. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambrogio, F., Asilar, E. et al. (2021). Erratum to: Measurement of single-diffractive dijet production in proton-proton collisions at root s = 8 Te with the CMS and TOTEM experiments. [European Physical Journal C](#), 81(5), 383.
3. Chanez-Paredes, S., Montoya-Garcia, A., Castro-Ochoa, K. F., Garcia-Cordero, J., Cedillo-Barron, L. et al. (2021). The Arp2/3 Inhibitory Protein Arpin Is Required for Intestinal Epithelial Barrier Integrity. [Frontiers in Cell and Developmental Biology](#), 9, 625719.
4. Montesinos, M., Escobedo, R., & Celada, M. (2021). Straightforward Hamiltonian Analysis of Bf Gravity in N Dimensions. [General Relativity and Gravitation](#), 53(5), 52.
5. Ramirez-Arredondo, G., Pena-Campos, F., Parra-Michel, R., & Kontorovich, V. (2021). Invariant Incoherent Mimo Reception Over Doubly Selective Channels. [Ieee Access](#), 9, 67776-67785.
6. Palmerin-Carreno, D., Martinez-Alarcon, D., Dena-Beltran, J. L., Vega-Rojas, L. J., Blanco-Labra, A., Escobedo-Reyes, A., & Garcia-Gasca, T. (2021). Optimization of a Recombinant Lectin Production in Pichia Pastoris Using Crude Glycerol in a Fed-Batch System. [Processes](#), 9(5), 876.
7. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambrogio, F., Bergauer, T. et al. (2021). Measurement of B Jet Shapes in Proton-Proton Collisions at Root S=5.02 Tev. [Journal of High Energy Physics](#), (5), 54.
8. Silva-Sanchez, J. L., Gonzalez-Lopez, V., Leyva, M. A., & Rosales-Hoz, M. J. (2021). Unusual Eta(1) (S) Coordination of Dibenzothiophene to Trinuclear Acetylide Clusters [(Mu-H)M-3(Co)(9)(Ccsime3)] (M = Ru, Os). [Journal of Organometallic Chemistry](#), 939, 121766.
9. Sosa, V., Gamboa-Perera, F., & Hernandez, M. J. (2021). Modeling of the Dynamics of a Superconducting Maglev in the Mixed State. [Physica C-Superconductivity and Its Applications](#), 584.
10. Sosa, V., Gamboa-Perera, F., & Hernandez, M. J. (2021). Modeling of the Dynamics of a Superconducting Maglev in the Mixed State. [Physica C-Superconductivity and Its Applications](#), 584.
11. Vazquez-Vazquez, A., Fewtrell, M. S., Chan-Garcia, H., Batun-Marrufo, C., Dickinson, F., & Wells, J. C. (2021). Does Maternal Grandmother's Support Improve Maternal and Child Nutritional Health Outcomes? Evidence From Merida, Yucatan, Mexico. [Philosophical Transactions of the Royal Society B-Biological Sciences](#), 376(1827).
12. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambrogio, F., Asilar, E. et al. (2021). Measurement of the Cp-Violating Phase Phi S in the B0s at Root S=13 Tev S -> J/Psi Phi(1020) -> & Micro; Plus & Micro;& Minus; K Plus K & Minus; Channel in Proton-Proton Collisions at & Nbsp;Root S=13 Tev. [Physics Letters B](#), 816, 136188.
13. Acharya, S., Adamova, D., Adler, A., Adolffsson, J., Aggarwal, M. M. et al. (2021). Lambda K Femtoscopy in Pb-Pb Collisions at Root S(Nn)=2.76 Tev. [Physical Review C](#), 103(5), 055021.
14. Torruco, D., Gonzalez-Solis, A., & Torruco-Gonzalez, A. D. (2021). Large-scale and long-term distribution of corals in the gulf of Mexico and Caribbean Sea of Mexico and adjacent areas: Corals distribution in Mexico and adjacent areas. [Regional Studies in Marine Science](#), 44, 101764.

-
15. Rios-Rios, W. D., Sosa-Luis, S. A., & Torres-Aguilar, H. (2021). Current Advances in Using Tolerogenic Dendritic Cells as a Therapeutic Alternative in the Treatment of Type 1 Diabetes. [World Journal of Diabetes](#), 12(5), 603-615.
 16. Leija-Martinez, J. J., Patricio-Roman, K. L., Del Rio-Navarro, B. E., Villalpando-Carrion, S., Reyes-Garay, J. A. et al. (2021). Retinol-binding protein 4 and plasminogen activator inhibitor-1 as potential prognostic biomarkers of non-allergic asthma caused by obesity in adolescents. [Allergologia Et Immunopathologia](#), 49(3), 21-29.
 17. Lagunas-Rangel, F. A., Bazan-Tejeda, M. L., & Bermudez-Cruz, R. M. (2021). Ribosomal DNA in the protozoan parasite *Giardia duodenalis* has a differential chromatin distribution and epigenetic markings across the subunits. [Acta Tropica](#), 217, 105872.

ARTÍCULOS PUBLICADOS DURANTE EL MES DE JUNIO DE 2021

PUBLICADOS EN EXTENSO EN REVISTAS DE PRESTIGIO INTERNACIONAL CON ARBITRAJE Estricto (INCLUIDAS EN JCR)

1. Murillo-Gonzalez, F. E., Garcia-Aguilar, R., Vega, L., & Elizondo, G. (2021). Regulation of Parkin expression as the key balance between neural survival and cancer cell death. [Biochemical Pharmacology](#), 190, 114650.
2. Torres-Rodriguez, J. V., Salazar-Vidal, M. N., Chavez Montes, R. A., Massange-Sanchez, J. A., Gillmor, C. S., & Sawers, R. J. H. (2021). Low Nitrogen Availability Inhibits the Phosphorus Starvation Response in Maize (*Zea Mays* Ssp. *Mays* L.). [Bmc Plant Biology](#), 21(1), 259.
3. Trejo-Ramos, A. I., Martin-Varguez, P. E., Gonzalez-Chan, I. J., & Oliva, A. I. (2021). Algorithm to obtain the species distribution diagrams and solubility curves for depositing ZnS, ZnO, and Zn(OH)₂ films in aqueous solution. [Computational and Theoretical Chemistry](#), 1202, 113325.
4. Esquivel, P., Reyes, E. N., Ornelas-Tellez, F., Garza, L., & Castaneda, C. E. (2021). Data gaps and degraded space-time resolution for modal decomposition: A compensator approach. [Electric Power Systems Research](#), 199, 107384.
5. Sirunyan, A. M., Tumasyan, A., Adam, W., Andrejkovic, J. W., Bergauer, T. et al. (2021). Measurements of Production Cross Sections of the Higgs Boson in the Four-Lepton Final State in Proton-Proton Collisions at Root S=13 Tev. [European Physical Journal C](#), 81(6), 488.
6. Vazquez-Vergara, P., Torres-Herrera, U., Caballero-Robledo, G. A., Olguin, L. F., & Poire, E. C. (2021). Experimental Resonances in Viscoelastic Microfluidics. [Frontiers in Physics](#), 9, 636070.
7. Herrera-Oropeza, G. E., Angulo-Rojo, C., Gastelum-Lopez, S. A., Varela-Echavarria, A., Hernandez-Rosales, M., & Avina-Padilla, K. (2021). Glioblastoma Multiforme: a Multi-Omics Analysis of Driver Genes and Tumour Heterogeneity. [Interface Focus](#), 11(4), 20200072.
8. Gutierrez Jimenez, N., & Torba, S. M. (2021). Analytic approximation of transmutation operators for one-dimensional stationary Dirac operators and applications to solution of initial value and spectral problems. [Journal of Mathematical Analysis and Applications](#), 504(2), 125392.
9. Lagunas-Rangel, F. A., Yee, J., & Bermudez-Cruz, R. M. (2021). An update on cell division of *Giardia duodenalis* trophozoites. [Microbiological Research](#), 250, 126807.
10. Cruz, S. L., & Bowen, S. E. (2021). The last two decades on preclinical and clinical research on inhalant effects. [Neurotoxicology and Teratology](#), 87, 106999.
11. Flores-Sosa, A. R., Soto-Magana, D., Gonzalez-De la Vara, L. E., Sanchez-Segura, L., Bah, M., Rivera-Pastrana, D. M., Nava, G. M., & Mercado-Silva, E. M. (2021). Red drupelet reversion in blackberries caused by mechanical damage is not linked to a reduction in anthocyanin content. [Postharvest Biology and Technology](#), 180, 111618.
12. Santacruz-Marquez, R., Gonzalez-De los Santos, M., & Hernandez-Ochoa, I. (2021). Ovarian toxicity of nanoparticles. [Reproductive Toxicology](#), 103, 79-95.
13. Mancilla, R. B., Tan, B. P., Daul, C., Martinez, J. G., Salas, L. L., Wolf, D., & Vera, A. (2021). Anatomical 3d Modeling Using Ir Sensors and Radiometric Processing Based on Structure From Motion: [Towards a Tool for the Diabetic Foot Diagnosis](#). [Sensors](#), 21(11), 3918.
14. Alvarez, C., Camacho, J. R. A., Arteaga-Velazquez, J. C., Arunbabu, K. P., Rojas, D. A. et al. (2021). [Hawc as a Ground-Based Space-Weather Observatory](#). [Solar Physics](#), 296(6), 89.
15. Geudtner, G. (2021). Parallelization of Demon2k: an Overview. [Theoretical Chemistry Accounts](#), 140(7), 87.

ARTÍCULOS PUBLICADOS DURANTE EL MES DE JULIO DE 2021

1. Juarez-Rivera, O. R., Mauricio-Sanchez, R. A., Jarrendahl, K., Arwin, H., & Mendoza-Galvan, A. (2021). Quantification of Optical Chirality in Cellulose Nanocrystal Films Prepared by Shear-Coating. [Applied Sciences-Basel](#), 11(13), 6191.
2. Alfonso, R. P., Jose-Joel, G. B., Raymundo, R. P., Erick-Alejandro, G. B., & Juan-Bautista, H. R. (2021). [Automobile Indexation From 3d Point Clouds of Urban Scenarios](#). [Automatika](#), 62(3), 311-318.
3. Garcia, G., Martinez-Rojas, V. A., & Murbartian, J. (2021). [TREK-1 potassium channels participate in acute and long-lasting nociceptive hypersensitivity induced by formalin in rats](#). [Behavioural Brain Research](#), 413, 113446.
4. Carmelo-Luna, F. J., Mendoza-Wilson, A. M., Montfort, G. R. C., Lizardi-Mendoza, J., Madera-Santana, T., Gutierrez, D. L., & Quintana-Owen, P. (2021). Synthesis and Experimental/Computational Characterization of Sorghum [Procyanidins-Gelatin Nanoparticles](#). [Bioorganic & Medicinal Chemistry](#), 42, 116240.
5. Garcia-Salas, S., Gomez-Montes, E. O., Ramirez-Sotelo, M. G., & Oliver-Salvador, M. D. (2021). Shear Rate as Scale-up Criterion of the Protein Production With Enhanced Proteolytic Activity by Phosphate Addition in the Jacaratia Mexicana Cell Culture. [Biotechnology & Biotechnological Equipment](#), 35(1), 1031-1042.
6. Mendez-Dominguez, N., Santos-Zaldivar, K., Gomez-Carro, S., Datta-Banik, S., & Carrillo, G. (2021). Maternal Mortality During the Covid-19 Pandemic in Mexico: a Preliminary Analysis During the First Year. [Bmc Public Health](#), 21(1), 1297.
7. Pedroza-Montero, J. N., Garzon, I. L., & Saucedo, H. E. (2021). On the Forbidden Graphene's Zo (Out-of-Plane Optic) Phononic Band-Analog Vibrational Modes in Fullerenes. [Communications Chemistry](#), 4(1), 103.
8. Angeles-Gonzalez, L. E., Martinez-Meyer, E., Yanez-Arenas, C., Velazquez-Abunader, I., Lopez-Rocha, J. A., Torrejon-Magallanes, J., & Rosas, C. (2021). Climate change effect on Octopus maya (Voss and Solis-Ramirez, 1966) suitability and distribution in the Yucatan Peninsula, Gulf of Mexico: A correlative and mechanistic approach. [Estuarine, Coastal and Shelf Science](#), 260, 107502.
9. Avina-Padilla, K., Ramirez-Rafael, J. A., Herrera-Oropeza, G. E., Muley, V. Y., Valdivia, D. I. et al. (2021). Evolutionary Perspective and Expression Analysis of Intronless Genes Highlight the Conservation of Their Regulatory Role. [Frontiers in Genetics](#), 12, 654256.
10. Perez-Alvarez, M., Kraft, S., Segovia, N. I., Olavarria, C., Nigenda-Morales, S. et al. (2021). Contrasting Phylogeographic Patterns Among Northern and Southern Hemisphere Fin Whale Populations With New Data From the Southern Pacific. [Frontiers in Marine Science](#), 8, 630233.
11. Hoffman, K. L. (2021). From the Clinic to the Laboratory, and Back Again: Investigations on Cannabinoids and Endocannabinoid System Modulators for Treating Schizophrenia. [Frontiers in Psychiatry](#), 12, 682611.

12. Zavala-Guevara, I. P., Ortega-Romero, M. S., Narvaez-Morales, J., Jacobo-Estrada, T. L., Lee, W. K., Arreola-Mendoza, L., Thevenod, F., & Barbier, O. C. (2021). Increased Endocytosis of Cadmium-Metallothionein Through the 24p3 Receptor in an in Vivo Model With Reduced Proximal Tubular Activity. [International Journal of Molecular Sciences](#), 22(14), 7262.
13. De Los Santos-Lopez, N. M., Perez-Angel, G., Mendez-Alcaraz, J. M., & Castaneda-Priego, R. (2021). Competing Interactions in the Depletion Forces of Ternary Colloidal Mixtures. [Journal of Chemical Physics](#), 155(2), 024901.
14. Escrihuela, F. J., Flores, L. J., Miranda, O. G., & Rendon, J. (2021). Global Constraints on Neutral-Current Generalized Neutrino Interactions. [Journal of High Energy Physics](#), (7), 61.
15. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambroggi, F., Asilar, E. et al. (2021). Measurements of Higgs Boson Production Cross Sections and Couplings in the Diphoton Decay Channel at Root S=13 Tev. [Journal of High Energy Physics](#), (7), 27.
16. Gomez-Sanchez, A., Prokhorov, E., Luna-Barcenas, G., Hernandez-Vargas, J., Roman-Doval, R., Mendoza, S., & Rojas-Chavez, H. (2021). Chitosan-hydroxyapatite-MWCNTs nanocomposite patch for bone tissue engineering applications. [Materials Today Communications](#), 28, 102615.
17. Gallego-Gutierrez, H., Gonzalez-Gonzalez, L., Ramirez-Martinez, L., Lopez-Bayghen, E., & Gonzalez-Mariscal, L. (2021). Tight Junction Protein Zo-2 Modulates the Nuclear Accumulation of Transcription Factor Tead. [Molecular Biology of the Cell](#), 32(15), 1347-1358.
18. Rodriguez-Campuzano, A. G., & Ortega, A. (2021). Glutamate Transporters: Critical Components of Glutamatergic Transmission. [Neuropharmacology](#), 192, 108602.
19. Regmi, G., & Velumani, S. (2021). Impact of target power on the properties of sputtered intrinsic zinc oxide (i-ZnO) thin films and its thickness dependence performance on CISE solar cells. [Optical Materials](#), 119, 111350.
20. Santana, P., & Aranda, D. A. (2021). Nacre Morphology and Chemical Composition in Atlantic Winged Oyster Pteria Colymbus (Roding, 1798). [Peerj](#), 9, e11527.
21. Avila-Lopez, M. B., Garcia-Maldonado, J. Q., Estrada-Medina, H., Hernandez-Mena, D. I., Cerqueda-Garcia, D., & Vidal-Martinez, V. M. (2021). First Record of Entomopathogenic Nematodes From Yucatan State, Mexico and Their Infectivity Capacity Against Aedes Aegypti. [Peerj](#), 9, e11633.
22. Borbolla-Jimenez, F. V., Del Prado-Audelo, M. L., Cisneros, B., Caballero-Floran, I. H., Leyva-Gomez, G., & Magana, J. J. (2021). New Perspectives of Gene Therapy on Polyglutamine Spinocerebellar Ataxias: From Molecular Targets to Novel Nanovectors. [Pharmaceutics](#), 13(7), 1018.
23. Vazquez-Delfin, E., Freile-Pelegrin, Y., Salazar-Garibay, A., Serviere-Zaragoza, E., Mendez-Rodriguez, L. C., & Robledo, D. (2021). Species composition and chemical characterization of Sargassum influx at six different locations along the Mexican Caribbean coast. [Science of The Total Environment](#), 795, 148852.

-
24. Moguel, B., Perez, L., Alcaraz, L. D., Blaz, J., Caballero, M. et al. (2021). Holocene Life and Microbiome Profiling in Ancient Tropical Lake Chalco, Mexico. [Scientific Reports](#), 11(1), 13848.
 25. Herrera-Pool, E., Ramos-Diaz, A. L., Lizardi-Jimenez, M. A., Pech-Cohuo, S., Ayora-Talavera, T., Cuevas-Bernardino, J. C., Garcia-Cruz, U., & Pacheco, N. (2021). Effect of solvent polarity on the Ultrasound Assisted extraction and antioxidant activity of phenolic compounds from habanero pepper leaves (*Capsicum chinense*) and its identification by UPLC-PDA-ESI-MS/MS. [Ultrasonics Sonochemistry](#), 76, 105658.
 26. Sanchez-Carrillo, S., Garatuza-Payan, J., Sanchez-Andres, R., Cervantes, F. J., Bartolome, M. C., Merino-Ibarra, M., & Thalasso, F. (2021). Methane Production and Oxidation in Mangrove Soils Assessed by Stable Isotope Mass Balances. [Water](#), 13(13), 1867.

ARTÍCULOS PUBLICADOS DURANTE EL MES DE AGOSTO DE 2021

1. Escobar-Guzman, R., & Ochoa-Alejo, N. (2021). Anther Culture of the Gametophytic Self-Incompatible [Species Physalis Ixocarpa Brot. Methds in Molecular Biology](#), 2288, 319-326.
2. Katzarkov, L., Lupercio, E., Meersseman, L., & Verjovsky, A. (2021). Quantum (non-commutative) toric geometry: Foundations. [Advances in Mathematics](#), 391, 107945.
3. Ortega-Aranda, D., Jimenez-Vielma, J. F., Saha, B. N., & Lopez-Juarez, I. (2021). Dual-Arm Peg-in-Hole Assembly Using Dnn With Double Force/Torque Sensor. [Applied Sciences-Basel](#), 11(15), 6970.
4. Juarez-Quintero, V., Peralta-Castro, A., Cardoza, C. G. B., Ellenberger, T., & Brieba, L. G. (2021). Structure of an Open Conformation of T7 Dna Polymerase Reveals Novel Structural Features Regulating Primer-Template Stabilization at the Polymerization Active Site. [Biochemical Journal](#), 478(13), 2665-2679.
5. Leija-Martinez, J. J., Del-Rio-Navarro, B. E., Sanchez-Munoz, F., Munoz-Hernandez, O., Hong, E. et al. (2021). Associations of Tnfa, Il17a, and Rorc Mrna Expression Levels in Peripheral Blood Leukocytes With Obesity-Related Asthma in Adolescents. [Clinical Immunology](#), 229, 108715.
6. Martinez-Herrera, A. F., Mex-Perera, C., Mancillas-Lopez, C., Del Valle-Soto, C., & Bossuet, L. (2021). The use of ellipse-based estimator as a sub-key distinguisher for Side-Channel Analysis. [Computers & Electrical Engineering](#), 94, 107311.
7. Schnoor, M., Vadillo, E., & Guerrero-Fonseca, I. M. (2021). The Extravasation Cascade Revisited From a Neutrophil Perspective (Vol 19, Pg 119, 2021). [Current Opinion in Physiology](#), 20, 219.
8. Anzueto-Rios, A., Gomez-Castaneda, F., Flores-Nava, L. M., & Moreno-Cadenas, J. A. (2021). Approaching Optimal Nonlinear Dimensionality Reduction by a Spiking Neural Network. [Electronics](#), 10(14), 1679.
9. Rodriguez-Uribe, M. L., Pena-Cabriales, J. J., Rivera-Cruz, M. D., & Delano-Frier, J. P. (2021). Native Bacteria Isolated From Weathered Petroleum Oil-Contaminated Soils in Tabasco, Mexico, Accelerate the Degradation Petroleum Hydrocarbons in Saline Soil Microcosms. [Environmental Technology & Innovation](#), 23, 101781.
10. Gamboa-Alvarez, M. A., Poot-Lopez, G. R., Olvera-Novoa, M. A., Aguilar-Perera, A., Ponce-Marquez, M. A., & Lopez-Rocha, J. A. (2021). Survival and Growth of Wild-Translocated Individuals and Released-Cultured Juveniles of Sea Cucumber *Isoctichopus Badionotus* Off the Northern Yucatan Peninsula, Mexico. [Estuarine Coastal and Shelf Science](#), 252.
11. Sirunyan, A. M., Tumasyan, A., Adam, W., Ambroggi, F., Bergauer, T. et al. (2021). Music: a Model-Unspecific Search for New Physics in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$. [European Physical Journal C](#), 81(7), 629.

12. Sirunyan, A. M., Tumasyan, A., Adam, W., Bergauer, T., Dragicevic, M. et al. (2021). Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. [European Physical Journal C, 81\(8\), 688.](#)
13. Mata-Machuca, J. L., Zarazua, L. F., & Aguilar-Lopez, R. (2021). Experimental verification of the leader-follower formation control of two wheeled mobile robots with obstacle avoidance. [IEEE Latin America Transactions, 19\(8\), 1417-1424.](#)
14. Rincon-Aguirre, A., Figueroa-Cardenas, J. D., Ramirez-Wong, B., Arambula-Villa, G., Jimenez-Sandoval, S. J., Martinez-Flores, H. E., & Perez-Robles, J. F. (2021). Effect of nixtamalization with Ca(OH)₂, CaCl₂, and CaCO₃ on the protein secondary structure, rheological, and textural properties of soft wheat flour doughs. [Journal of Cereal Science, 101, 103271.](#)
15. Pano-Azucena, A. D., Tlelo-Cuautle, E., Ovilla-Martinez, B., De La Fraga, L. G., & Li, R. (2021). Pipeline Fpga-Based Implementations of Anns for the Prediction of up to 600-Steps-Ahead of Chaotic Time Series. [Journal of Circuits Systems and Computers, 30\(09\), 2150164.](#)
16. Prabhu, N. S., Meza-Rocha, A. N., Soriano-Romero, O., Caldino, U., Huerta, E. F. et al. (2021). Spectroscopic Study of Er³⁺ Doped Borate Glass System for Green Emission Device, Nir Laser, and [Optical Amplifier Applications.](#) [Journal of Luminescence, 238.](#)
17. Pariona, N., Cereceda, S. B., Mondaca, F., Carrion, G., & Mtz-Enriquez, A. I. (2021). Antifungal Activity and Degradation of Methylene Blue by ZnO, Cu, and Cu₂O/Cu Nanoparticles, a Comparative Study. [Materials Letters, 301.](#)
18. Undabarrena, A., Valencia, R., Cumsille, A., Zamora-Leiva, L., Castro-Nallar, E., Barona-Gomez, F., & Camara, B. (2021). Rhodococcus comparative genomics reveals a phylogenomic-dependent non-ribosomal peptide synthetase distribution: insights into biosynthetic gene cluster connection to an orphan metabolite. [Microbial Genomics, 7\(7\), 000621.](#)
19. Morales, J., & Yu, W. (2021). Improving neural network's performance using Bayesian inference. [Neurocomputing, 461, 319-326.](#)
20. Duarte-Urbina, O. J., Rodriguez-Varela, F. J., Fernandez-Luqueno, F., Vargas-Gutierrez, G., Sanchez-Castro, M. E., Escobar-Morales, B., & Alonso-Lemus, I. L. (2021). Bioanodes Containing Catalysts From Onion Waste and Bacillus Subtilis for Energy Generation From Pharmaceutical Wastewater in a Microbial Fuel Cell. [New Journal of Chemistry, 45\(28\), 12634-12646.](#)
21. Santana-Gomez, C. E., Perez-Perez, D., Fonseca-Barriendos, D., Arias-Carrion, O., Besio, W., & Rocha, L. (2021). Transcranial focal electrical stimulation modifies biogenic amines'alterations induced by 6-hydroxydopamine in rat brain. [Pharmaceuticals, 14\(8\), 706.](#)
22. Flores, P. A. O., Zaragoza, E. S., Pelegrin, Y. F., Rodriguez, L. C. M., Robledo, D., & Montanez, J. A. D. (2021). Seasonal Changes in Arsenic, Heavy Metals and Trace Element Concentration in Pelagic Species of Sargassum From the Mexican Caribbean. [Phycologia, 60, 10.](#)

23. Mendoza-Becerril, M. A., Zaragoza, E. S., Mazariegos-Villarreal, A., Rivera-Perez, C., Calder, D. R. et al. (2021). Stranded Sargassum in the Mexican Caribbean: Epibiont Hydroids. [Phycologia](#), 60, 11.
24. Mollineda, A. F., Pelegrin, Y. F., Fuentes, E. C., & Robledo, D. (2021). Seasonal Variation of Phenolic Compounds and Antioxidant Activity in Species of Shore Cast Pelagic Sargassum. [Phycologia](#), 60, 12.
25. Minet, Z. N. Q., Davoult, D., Grall, J., Delaunay, C., Six, C., Cariou, T., & Martin, S. (2021). Physiology of Maerl Algae: Comparison of Inter- and Intraspecies Variations. [Phycologia](#), 60, 106.
26. Pelegrin, Y. F. (2021). Tropical Seaweeds: 'blue' Steps Towards Their Potential Utilization. [Phycologia](#), 60, 120.
27. Gonzalez, D., Gutierrez-Ruiz, D., & Vergara, J. D. (2021). Classical Description of the Parameter Space Geometry in the Dicke and Lipkin-Meshkov-Glick Models. [Physical Review E](#), 104(1), 014113.
28. Reynoso-Hernandez, K. B., Guevara-Pantoja, P. E., & Caballero-Robledo, G. A. (2021). Capture Efficiency of Magnetic Nanoparticles Through the Compaction Effect of a Microparticles Column. [Physical Review E](#), 104(2), 024603.
29. Acharya, S., Adamova, D., Adler, A., Adolfsson, J., Aggarwal, M. M. et al. (2021). Soft-Dielectron Excess in Proton-Proton Collisions at Root $S=13$ TeV. [Physical Review Letters](#), 127(4), 042302.
30. Flores-Alfonso, D., Lopez-Monsalvo, C. S., & Maceda, M. (2021). Thurston Geometries in Three-Dimensional New Massive Gravity. [Physical Review Letters](#), 127(6), 061102.
31. Sirunyan, A. M., Tumasyan, A., Adam, W., Bergauer, T., Dragicevic, M. et al. (2021). Search for Singly and Pair-Produced Leptoquarks Coupling to Third-Generation Fermions in Proton-Proton Collisions at Root $S=13$ TeV. [Physics Letters B](#), 819, 136446.
32. Ltaeif, H. B., Sakhraoui, A., Gonzalez-Orenga, S., Faz, A. L., Boscaiu, M., Vicente, O., & Rouz, S. (2021). Responses to Salinity in Four Plantago Species From Tunisia. [Plants-Basel](#), 10(7), 1392.
33. Moore, B., Carvajal-Lopez, P., Chauke, P. A., Cristancho, M., Del Angel, V. D. et al. (2021). Ten Simple Rules for Organizing a Bioinformatics Training Course in Low- and Middle-Income Countries. [Plos Computational Biology](#), 17(8), e1009218.
34. Penalosa, G., El-Hani, C. N., & Mosquera-Suarez, C. J. (2021). Between Scientific Ideas and Christian Religious Beliefs: How Do Colombian Biology Teachers' Views on Science-Religion Relationships Influence Their Evolution Teaching? [Science and Education](#), 30(4), 931-965.
35. Frias-Soria, C. L., Perez-Perez, D., Orozco-Suarez, S., & Rocha, L. (2021). Cannabidiol Modifies the Seizure Expression and Effects of Antiseizure Drugs in a Rat Model of Recurrent Severe Seizures. [Seizure-European Journal of Epilepsy](#), 90, 67-73.
36. Valencia, D., Conde, J., Ashok, A., Meza-Avendano, C. A., Vilchis, H., & Velumani, S. (2021). Optimization of Cu(in, Ga)Se-2 (Cigse) Thin Film Solar Cells Parameters

-
- Through Numerical Simulation and Experimental Study. [Solar Energy, 224, 298-308.](#)
37. Uribe, L., Lara, A., Deb, K., & Schutze, O. (2021). A new gradient free local search mechanism for constrained multi-objective optimization problems. [Swarm and Evolutionary Computation, 67, 100938.](#)
 38. Tandiana, R., Clavaguera, C., Hasnaoui, K., Pedroza-Montero, J. N., & De La Lande, A. (2021). Reliability and Performances of Real-Time Time-Dependent Auxiliary Density Functional Theory. [Theoretical Chemistry Accounts, 140\(9\), 126.](#)
 39. Cruz-Lopez, H., Rodriguez-Morales, S., Enriquez-Paredes, L. M., Villarreal-Gomez, L. J., Olivera-Castillo, L., Cortes-Santiago, Y., & Lopez, L. M. (2021). Comparison of collagen characteristic from the skin and swim bladder of Gulf corvina (*Cynoscion othonopterus*). [Tissue and Cell, 72, 101593.](#)

ARTÍCULOS PUBLICADOS DURANTE EL MES SEPTIEMBRE DE 2021

PUBLICADOS EN EXTENSO EN REVISTAS DE PRESTIGIO INTERNACIONAL CON ARBITRAJE Estricto (Incluidas en JCR)

1. Durruthy-Rodriguez, M. D., Portellez-Rodriguez, J., Bentancourt, J. F., Hernandez-Garcia, M., Hernandez-Landaverde, M. A., Rodriguez-Melgarejo, F., & Yanez-Limon, J. M. (2021). Ferroelastic and Ferroelectric Phase Transition in Bulk Pb1-Xlax(Zr0.53ti0.47)O-3. [Applied Physics a-Materials Science & Processing](#), 127(9), 728.
2. Guerra-Bravo, E., Lee, H. J., Baltazar, A., & Loh, K. J. (2021). Vibration Analysis of a Piezoelectric Ultrasonic Atomizer to Control Atomization Rate. [Applied Sciences-Basel](#), 11(18), 8350.
3. Errez-Vidal, R. G., Franco-Urquijo, C. A., Rios-Rodriguez, A., Escalante-Acosta, B., Delgado-Coello, B., & Mas-Oliva, J. (2021). Nanomicellar Preparation, Hb-Atv-8, Protects Against Endothelial Dysfunction Induced by a High-Fat Diet. [Atherosclerosis](#), 331, E60.
4. Quesnel-Galvan, L. R., Torres-Duran, P. V., Elias-Vinas, D., & Verdugo-Diaz, L. (2021). Effect of Extremely Low Frequency Magnetic Fields on Oxidative Balance in Rat Brains Subjected to an Experimental Model of Chronic Unpredictable Mild Stress. [Bmc Neuroscience](#), 22(1), 52.
5. Escobar-Zepeda, A., Rosas-Escobar, P., Valdelamar, L. M., De La Torre, P., Partida-Martinez, L. P., Remegaldo, R., Sanchez-Flores, A., & Vergara, F. (2021). Distinctive Prokaryotic Microbiomes in Sympatric Plant Roots From a Yucatan Cenote. [Bmc Research Notes](#), 14(1), 333.
6. Cabrera-Luna, K., Maldonado-Bandala, E. E., Nieves-Mendoza, D., Castro-Borges, P., Perez-Cortes, P., & Escalante Garcia, J. I. (2021). Supersulfated cements based on pumice with quicklime, anhydrite and hemihydrate: Characterization and environmental impact. [Cement & Concrete Composites](#), 124, 104236.
7. Rivera-Mancilla, E., De Vries, T., Van Den Bogaerdt, A., Danser, A. H. J., Villalon, C. M., & Van Den Brink, A. M. (2021). Sex Differences in the Pharmacological Role of Trpm3 Channels and Nmدا Receptors in Human Isolated Coronary Arteries. [Cephalalgia](#), 41(1 SUPPL), 13-14.
8. Loaiza, M., Morales-Garcia, I., & Ramirez-Ortega, J. (2021). Toeplitz Operators With Homogeneous Symbols on Polyharmonic Spaces. [Complex Analysis and Operator Theory](#), 15(6), 107.
9. Turbinder, A. V., & Vasilevski, N. (2021). Poly-Analytic Functions and Representation Theory. [Complex Analysis and Operator Theory](#), 15(7), 110.
10. Campos-Mercado, E., Mendoza-Santos, E. F., Torres-Munoz, J. A., Roman-Hernandez, E., Moreno-Oliva, V. I., Hernandez-Escobedo, Q., & Perea-Moreno, A. J. (2021). Nonlinear Controller for the Set-Point Regulation of a Buck Converter System. [Energies](#), 14(18), 5760.
11. Zarate-Toledo, E., Wood, P., & Patino, R. (2021). In search of wind farm sustainability on the Yucatan coast: Deficiencies and public perception of Environmental Impact Assessment in Mexico. [Energy Policy](#), 158, 112525.
12. Shruti, V. C., Perez-Guevara, F., & Kutralam-Muniasamy, G. (2021). The Current State of Microplastic Pollution in the World's Largest Gulf and Its Future Directions. [Environmental Pollution](#), 291, 118142.
13. Sirunyan, A. M., Tumasyan, A., Adam, W., Andrejkovic, J. W., Bergauer, T. et al. (2021). Precision Luminosity Measurement in Proton-Proton Collisions at Root S=13 Tev in 2015 and 2016 at Cms. [European Physical Journal C](#), 81(9), 800.
14. Flores-Salazar, M., Arellano-Arreola, V. M., Suendra-Panikar, S., Sekhar-Reddy, K. C., Muniz-Martinez, B. A. et al. (2021). MoSe2 monolayer crystallinity improvement and phase engineering for ultrasensitive SERS detection. [FlatChem](#), 29, 100282.
15. Valdivia-Rivera, S., Herrera-Pool, I. E., Ayora-Talavera, T., Lizardi-Jimenez, M. A., Garcia-Cruz, U., Cuevas-Bernardino, J. C., Cervantes-Uc, J. M., & Pacheco, N. (2021). Kinetic, thermodynamic, physicochemical, and economical characterization of pectin from Mangifera indica L. cv. Haden residues. [Foods](#), 10(9), 2093.
16. Rojas-Mendez, K. J., Segura, L. S., Chagolla, A., Lino, B., & De La Vara, L. E. G. (2021). Voltage-Dependent Anion-Selective Channels and Other Mitochondrial Membrane Proteins Form Diverse Complexes in Beetroots Subjected to Flood-Induced Programmed Cell Death. [Frontiers in Plant Science](#), 12, 714847.
17. Lee, H. J., Guerra-Bravo, E., Baltazar, A., & Loh, K. J. (2021). Atomization Control to Improve Soft Actuation Through Vaporization. [Frontiers in Robotics and Ai](#), 8, 747440.
18. Blanco-Rodriguez, R., Hidalgo, R. C., Perez-Angel, G., & Maza, D. (2021). Critical Numerical Analysis of Quasi-Two-Dimensional Silo-Hopper Discharging. [Granular Matter](#), 23(4), 86.
19. Soto, R., Terrazas, A., Poindron, P., & Gonzalez-Mariscal, G. (2021). Regulation of maternal behavior, social isolation responses, and postpartum estrus by steroid hormones and vaginocervical stimulation in sheep. [Hormones and Behavior](#), 136, 105061.

20. Solis-Rodriguez, R., Perez-Garibay, R., Alonso-Gonzalez, O., & Mendieta-George, D. (2021). Enhancing the arsenic adsorption by controlling the zeta potential of Zn(OH)₂ flocs. [Journal of Environmental Chemical Engineering, 9\(5\), 106300](#).
21. Flores-Alonso, D., Linares, R., & Maceda, M. (2021). Nonlinear Extensions of Gravitating Dyons: From Nut Wormholes to Taub-Bolt Instantons. [Journal of High Energy Physics, \(9\), 104](#).
22. Vali, A., Sarker, H. P., Cervera, B. H., Rodriguez-Gutierrez, I., Hossain, M. K., Huda, M. N., Oskam, G., & Rajeshwar, K. (2021). Optical, Electrochemical, and Photoelectrochemical Behavior of Copper Pyrovanadate: a Unified Theoretical and Experimental Study. [Journal of Physical Chemistry C, 125\(36\), 19609-19620](#).
23. Ioannidis, A. G., Blanco-Portillo, J., Sandoval, K., Hagelberg, E., Barberena-Jonas, C. et al. (2021). Paths and Timings of the Peopling of Polynesia Inferred From Genomic Networks. [Nature, 597\(7877\), 522-+](#).
24. Sirunyan, A. M., Tumasyan, A., Adam, W., Andrejkovic, J. W., Bergauer, T. et al. (2021). Search for Top Squark Production in Fully Hadronic Final States in Proton-Proton Collisions at Root S=13 Tev. [Physical Review D, 104\(5\), 052001](#).
25. Villada-Balbuena, A., Ortiz-Ambriz, A., Castro-Villarreal, P., Tierno, P., Castaneda-Priego, R., & Mendez-Alcaraz, J. M. (2021). Single-File Dynamics of Colloids in Circular Channels: Time Scales, Scaling Laws and Their Universality. [Physical Review Research, 3\(3\), 033246](#).
26. Palmieri, B., Corazzari, V., Vadala, M., Vallelunga, A., Morales-Medina, J. C., & Iannitti, T. (2021). The Role of Sensory and Olfactory Pathways in Multiple Chemical Sensitivity. [Reviews on Environmental Health, 36\(3\), 319-326](#).
27. De La Torre-Robles, D., Dominguez-Serna, F., Osorio, G. L., U'ren, A. B., Bermudez, D., & Garay-Palmett, K. (2021). Frequency and Polarization Emission Properties of a Photon-Pair Source Based on a Photonic Crystal Fiber. [Scientific Reports, 11\(1\), 18092](#).
28. Del Puerto-Flores, J. A., Pena-Campos, F., Parra-Michel, R., & Del Valle-Soto, C. (2021). Carrier diversity incorporation to low-complexity near-ml detection for multicarrier systems over v2v radio channel. [Sensors, 21\(18\), 60 67](#).
29. Kudriavtsev, Y., & Asomoza, R. (2021). Comparative Analysis of Corrosion of Borosilicate Glasses in Water Vapor. [Solid State Ionics, 371, 115754](#).
30. Llano-Garcia, J., Monroy, R., Sosa-Hernandez, V. A., & Coello-Coello, C. A. (2021). COARSE-EMOA: An indicator-based evolutionary algorithm for solving equality constrained multi-objective optimization problems. [Swarm and Evolutionary Computation, 67, 100983](#).
31. Kudriavtsev, Y., & Asomoza, R. (2021). Features of semiconductor irradiation with low-energy caesium ions. [Vacuum, 194, 110592](#).

ARTÍCULOS PUBLICADOS DURANTE EL MES DE OCTUBRE 2021

1. Fuentes-Perez, R., Hernandez-Rubio, E., Flores-Nogueira, D. D., & Meneses-Viveros, A. (2021). Prototype of Manet Network With Ring Topology for Mobile. [Transactions on Computational Science and Computational Intelligence](#), pp. 659-665.
2. Manisekaran, R., Acosta-Torres, L. S., Garcia-Contreras, R., & Santoyo-Salazar, J. (2021). Multifunctional Nanoparticles for Targeting Cancer Nanotheranostics. [Nanotechnology in the Life Sciences](#), pp. 29-48.
3. Palomo, G., Siller, M., Grignard, A., & Alonso, L. (2021). An Agent-Based Model of Social Fabric Seen as an Emergent Behavior. [Springer Proceedings in Complexity](#), pp.141-151.
4. Manzano-Gomez, L. A., Guzman-Albores, J. M., Rincón-Rosales, R., Winkler, R., Rincon-Molina, C. I. et al. (2021). Evaluation of Metabolomic Profile and Growth of Moringa oleifera L. Cultivated with Vermicompost under Different Soil Types. [Agronomy](#), 11(10), 2061.
5. Lartey, N. L., Vargas-Robles, H., Guerrero-Fonseca, I. M., Kumatia, E. K., Ocloo, A., & Schnoor, M. (2021). Annickia Polycarpa Extract Attenuates Dss-Induced Colitis by Balancing Neutrophil Recruitment. [American Journal of Pathology](#), 191(10 S), S10.
6. Morales De la Cruz, X., Mandujano-Chavez, A., Browne, D. R., Devarenne, T. P., Sanchez-Segura, L., Lopez, M. G., & Lozoya-Gloria, E. (2021). In Silico and Cellular Differences Related to the Cell Division Process between the A and B Races of the Colonial Microalga Botryococcus braunii. [Biomolecules](#), 11(10), 1463.
7. Dominguez-Diaz, L. R., Ochoa, M. E., Soto-Castro, D., Farfan, N., Morales-Chamorro, M. et al. (2021). In Vitro, Ex Vivo and in Vivo Short-Term Screening of Dhea Nitrate Derivatives Activity Over Trypanosoma Cruzi Ninoa and Th Strains From Oaxaca State, Mexico. [Bioorganic & Medicinal Chemistry](#), 48, 116417.
8. Ortiz, M. I., Carino-Cortes, R., Munoz-Perez, V. M., Salas-Casas, A., & Castaneda-Hernandez, G. (2021). Role of the No-Cgmp-K+ Channels Pathway in the Peripheral Antinociception Induced by Alpha-Bisabolol. [Canadian Journal of Physiology and Pharmacology](#), 99(10), 1048-1056.
9. Schoberleitner, I., Bauer, I., Huang, A. M., Andreyeva, E. N., Sebald, J. et al. (2021). Chd1 Controls H3.3 Incorporation in Adult Brain Chromatin to Maintain Metabolic Homeostasis and Normal Lifespan. [Cell Reports](#), 37(1), 109769.
10. Gomez-Vazquez, O. M., Correa-Pina, B. A., Zubieta-Otero, L. F., Castillo-Paz, A. M., Londono-Restrepo, S. M., & Rodriguez-Garcia, M. E. (2021). Synthesis and Characterization of Bioinspired Nano-Hydroxyapatite by Wet Chemical Precipitation. [Ceramics International](#), 47(23), 32775-32785.
11. Riofrio-Lazo, M., Reck, G., Perez-Rosas, D., Zetina-Rejon, M. J., Del Monte-Luna, P. et al. (2021). Food web modeling of the southeastern Galapagos shelf ecosystem. [Ecological Indicators](#), 132, 108270.

12. Ongaro, L., Molinaro, L., Flores, R., Marnetto, D., Capodiferro, M. R. et al. (2021). Evaluating the Impact of Sex-Biased Genetic Admixture in the Americas through the Analysis of Haplotype Data. [Genes](#), 12(10), 1580.
13. Acharya, S., Adamova, D., Adler, A., Adolfsson, J., Rinella, G. A. et al. (2021). First Measurements of N-Subjettiness in Central Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. [Journal of High Energy Physics](#), (10), 003.
14. Tumasyan, A., Adam, W., Andrejkovic, J. W., Bergauer, T., Chatterjee, S. et al. (2021). Search for Chargino-Neutralino Production in Events With Higgs and W Bosons Using 137 Fb(-1) of Proton-Proton Collisions at $\sqrt{s}=13$ TeV. [Journal of High Energy Physics](#), (10), 045.
15. Alanis, A. Y., Rios-Rivera, D., Sanchez, E. N., & Sanchez, O. D. (2021). Learning Impulsive Pinning Control of Complex Networks. [Mathematics](#), 9(19), 2436.
16. Li, H. M., Fernandez-Guasti, A., Xu, Y., & Swaab, D. (2021). Sexual Orientation, Neuropsychiatric Disorders and the Neurotransmitters Involved. [Neuroscience and Biobehavioral Reviews](#), 131, 479-488.
17. Tumasyan, A., Adam, W., Andrejkovic, J. W., Bergauer, T., Chatterjee, S. et al. (2021). Measurement of the Electroweak Production of Z Gamma and Two Jets in Proton-Proton Collisions at $\sqrt{s}=13$ TeV and Constraints on Anomalous Quartic Gauge Couplings. [Physical Review D](#), 104(7), 072001.
18. Acharya, S., AdamovÅi, D., Adler, A., Adolfsson, J., Aglieri Rinella, G. et al. (2021). Gamma production and nuclear modification at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV. [Physics Letters B](#), 822, 136579.
19. Garcia-Sanchez, A. N., Yanez-Macias, R., Hernandez-Flores, J. L., Alvarez-Morales, A., Valenzuela-Soto, J. H., Guerrero-Sanchez, C., & Guerrero-Santos, R. (2021). Exogenous Application of Polycationic Nanobactericide on Tomato Plants Reduces the Candidatus Liberibacter Solanacearum Infection. [Plants-Basel](#), 10(10), 2096.
20. Villalobos-Castro, J., & Koster, A. M. (2021). Diagonalization-Free Self-Consistent Field Approach With Localized Molecular Orbitals. [Theoretical Chemistry Accounts](#), 140(11), 152.
21. Infante, N., Rodriguez, R., Bartolo, Y., Sanchez, O., Sanz, I., Bermeo, L., & Morato, J. (2021). Biofunctionalization of Cork With Moringa Oleifera Seeds and Use of Pma Staining and Qpcr to Detect Viability of Escherichia Coli. [Water](#), 13(19), 2731.
22. Escamilla-Rodriguez, A., Carlos-Hernandez, S., & Diaz-Jimenez, L. (2021). Evidence of Resistance of Heavy Metals from Bacteria Isolated from Natural Waters of a Mining Area in Mexico. [Water](#), 13(19), 2766.
23. Perez-Hernandez, H., Perez-Moreno, A., Sarabia-Castillo, C. R., Garcia-Mayagoitia, S., Medina-Perez, G. et al. (2021). Ecological Drawbacks of Nanomaterials Produced on an Industrial Scale: Collateral Effect on Human and Environmental Health. [Water Air and Soil Pollution](#), 232(10), 435.

ARTÍCULOS PUBLICADOS DURANTE EL MES DE NOVIEMBRE DE 2021

1. Aldana-Bobadilla, E., Molina-Villegas, A., Montelongo-Padilla, Y., Lopez-Arevalo, I., & Sordia, O. S. (2021). A Language Model for Misogyny Detection in Latin American Spanish Driven by Multisource Feature Extraction and Transformers. *Applied Sciences-Basel*, *11*(21), 10467.
2. Alarcon-Sanchez, B. R., Perez-Carreon, J. I., Villa-Trevino, S., & Arellanes-Robledo, J. (2021). Molecular alterations that precede the establishment of the hallmarks of cancer: An approach on the prevention of hepatocarcinogenesis. *Biochemical Pharmacology*, *194*, 114818.
3. Ascencio-Carbajal, T., Saruwatari-Zavala, G., Navarro-Garcia, F., & Frixione, E. (2021). Genetic/genomic testing: defining the parameters for ethical, legal and social implications (ELSI). *Bmc Medical Ethics*, *22*, 156.
4. Alfaro-Mora, Y., Dominguez-Gomez, G., Caceres-Gutierrez, R. E., Tolentino-Garcia, L., Herrera, L. A., Castro-Hernandez, C., Bermudez-Cruz, R. M., & Diaz-Chavez, J. (2021). Mps1 Is Involved in the Hpv16-E7-Mediated Centrosomes Amplification. *Cell Division*, *16*(1), 6.
5. Orozco-Ic, M., & Merino, G. (2021). The Magnetic Response of Starphenes. *Chemistry*, *3*(4), 1381-1391.
6. Tumasyan, A., Adam, W., Andrejkovic, J. W., Bergauer, T., Chatterjee, S. et al. (2021). Combined Searches for the Production of Supersymmetric Top Quark Partners in Proton-Proton Collisions at Root S=13 Tev. *European Physical Journal C*, *81*(11), 970.
7. Sanchez-Salguero, E., Corona-Cervantes, K., Guzman-Aquino, H. A., De la Borbolla-Cruz, M. F., Contreras-Vargas, V., Pina-Escobedo, A., Garcia-Mena, J., & Santos-Argumedo, L. (2021). Maternal IgA2 Recognizes Similar Fractions of Colostrum and Fecal Neonatal Microbiota. *Frontiers in Immunology*, *12*, 712130.
8. Ramirez-Rosas, A., Benitez-Guerrero, T., Corona-Cervantes, K., Velez-Ixta, J. M., Zavala-Torres, N. G. et al. (2021). Study of perinatal transmission of SARS-CoV-2 in a Mexican public hospital. *International Journal of Infectious Diseases*, *113*, 225-232.
9. Villa-Rivera, M. G., & Ochoa-Alejo, N. (2021). Transcriptional regulation of ripening in chili pepper fruits (*Capsicum* spp.). *International Journal of Molecular Sciences*, *22*(22), 12151.
10. Perez-Lara, J. C., Espinosa, E., Santos-Argumedo, L., Romero-Ramirez, H., Lopez-Herrera, G. et al. (2021). CD38 correlates with an immunosuppressive treg phenotype in lupus-prone mice. *International Journal of Molecular Sciences*, *22*(21), 11977.
11. Franco-Gonzalez, I. T., Perez-Escamirosa, F., Minor-Martinez, A., Rosas-Barrientos, J. V., & Hernandez-Paredes, T. J. (2021). Development of a 3d Motion Tracking

-
- System for the Analysis of Skills in Microsurgery. [Journal of Medical Systems, 45\(12\), 106.](#)
12. Rodriguez-Varela, J., Alonso-Lemus, I. L., Savadogo, O., & Palaniswamy, K. (2021). Overview: Current Trends in Green Electrochemical Energy Conversion and Storage. [Journal of Materials Research, 36\(20\), 4071-4083.](#)
 13. Esmacher, O., Hurst, M., Regmi, G., Velumani, S., Castaneda, H., & Kuttolamadom, M. (2021). Corrigendum to "æSelective laser sintering of metallic oxide powder mixtures for bi/tri-metallic-oxide formation" [Mater. Lett. 286 (2021) 129215]. [Materials Letters, 306, 130861.](#)
 14. Griscalde, G., Reyes, E., & Villarreal, R. H. (2021). Induced matchings and the v-number of graded ideals. [Mathematics, 9\(22\), 2860.](#)
 15. Flores-Saldivar, A. A., Juarez-Martinez, R., Flores-Valdes, A., Torres-Torres, J., Ochoa-Palacios, R. M., & Li, Y. (2021). Mathematical modelling for furnace design refining [molten aluminum](#). [Metals, 11\(11\), 1798.](#)
 16. Cruz-Martinez, H., Guerra-Cabrera, W., Flores-Rojas, E., Ruiz-Villalobos, D., Rojas-Chavez, H., Pena-Castaneda, Y. A., & Medina, D. I. (2021). Pt-Free Metal Nanocatalysts for the Oxygen Reduction Reaction Combining Experiment and Theory: An Overview. [Molecules, 26\(21\), 6689.](#)
 17. Calderon-Olvera, R. M., Garcia-Hipolito, M., Alvarez-Fregoso, O., Alvarez-Perez, M. A., Baez-Rodriguez, A., Ramos-Brito, F., Garcia-Velasco, A. C., & Falcony, C. (2021). White, Blue, Violet, and Other Colors From Tm³⁺/Tb³⁺/Eu³⁺ Co-Doped Polymorph SrAl₂O₄ Films, Deposited by Ultrasonic Spray Pyrolysis Technique. [Optical Materials, 122, 111737.](#)
 18. Dussel, I. (2021). The Pedagogy of Latrines. A Kaleidoscopic Look at the History of School Bathrooms in Argentina, 1880-1930. [Oxford Review of Education, 47\(5\), 576-596.](#)
 19. Medina-Buelvas, D. M., Rodriguez-Sosa, M., & Vega, L. (2021). Characterisation of macrophage polarisation in mice infected with ninoo strain of trypanosoma cruzi. [Pathogens, 10\(11\), 1444.](#)
 20. Acharya, S., AdamovÁi, D., Adler, A., Adolfsson, J., Aglieri Rinella, G. et al. (2021). Lambda c⁺ Production and Baryon-to-Meson Ratios in pp and p -Pb Collisions at root s_{NN} =5.02 TeV at the LHC. [Physical Review Letters, 127\(20\), 202301.](#)
 21. Acharya, S., Adamova, D., Adler, A., Adolfsson, J., Rinella, G. A. et al. (2021). Kaon-Proton Strong Interaction at Low Relative Momentum Via Femtoscopy in Pb-Pb Collisions at the Lhc. [Physics Letters B, 822, 136708.](#)
 22. Acharya, S., Adamova, D., Adler, A., Adolfsson, J., Rinella, G. A. et al. (2021). Upsilon Production and Nuclear Modification at Forward Rapidity in Pb-Pb Collisions at Root S-Nn=5.02 Tev. [Physics Letters B, 822, 136579.](#)
 23. Mejia-Morales, C., Rodriguez-Macias, R., Salcedo-Perez, E., Zamora-Natera, J. F., Rodriguez-Zaragoza, F. A., Molina-Torres, J., Delano-Frier, J. P., & Zanudo-Hernandez, J. (2021). Contrasting metabolic fingerprints and seed protein profiles of cucurbita foetidissima and c. Radicans fruits from feral plants sampled in central Mexico. [Plants-Basel, 10\(11\), 2451.](#)

-
24. Franco-Bacca, A. P., Cervantes-Alvarez, F., Macias, J. D., Castro-Betancur, J. A., Perez-Blanco, R. J. et al. (2021). Heat Transfer in Cassava Starch Biopolymers: Effect of the Addition of Borax. [Polymers, 13\(23\), 4106.](#)
 25. Campuzano, E. F., & Padilla-Ramirez, J. R. (2021). Spatial and Seasonal Patterns of Ground-Dwelling Spider Assemblages Belonging to the Retrolateral Tibial Apophysis Clade (Araneae: Araneomorphae) in Two Remnants of Pine-Oak Forest From Mexico. [Studies on Neotropical Fauna and Environment, 56\(3\), 220-233.](#)
 26. Bustos-Flores, E., Elizondo-Alvarez, M. A., & Uribe-Salas, A. (2021). Thermodynamic and Experimental Studies on Removal of Calcium and Sulfate Ions From Recycling Water of Complex Sulfide Flotation Operations. [Transactions of Nonferrous Metals Society of China, 31\(10\), 3116-3127.](#)
 27. Garcia-Compean, H., Obregon, O., & Ramirez, C. (2021). Topics in Supersymmetric and Noncommutative Quantum Cosmology. [Universe, 7\(11\), 434.](#)
 28. Gonzalez-Gamboa, N., Tapia-Tussell, R., Kamaraj, S. K., Valdes-Lozano, D., Dominguez-Maldonado, J., & Alzate-Gaviria, L. (2021). Scale up of a Marine Sediment Microbial Fuel Cells Stack With a Floating Aerated Cathode Using a Circuit Storage Energy From Ultra-Low Power. [Waste and Biomass Valorization, 12\(7\), 3977-3985.](#)

ARTÍCULOS PUBLICADOS DURANTE EL MES DE DICIEMBRE DE 2021

1. Alvarez-Carrizal, R. P., Rodriguez-Garcia, J. A., Cortes-Hernandez, D. A., Esparza-Vazquez, S. J. & Rocha-Rangel, E. (2021). Manufacture of Al₂O₃/Ti Composite by Aluminum Bonding Reaction for Their Use as a Biomaterial. [Advances in Materials Research-an International Journal, 10\(4\): 331-341.](#)
2. Pedraza, J., Sierra, H., Cordero, J. & Lopez-Bayghen, E. (2021). Paternal Advanced Age and Sperm Quality Are Indicators for Preimplantation Genetic Testing in Egg Donation Cycles. [Clinical and Experimental Obstetrics & Gynecology, 48\(6\): 1404-1411.](#)
3. Valencia-Ponce, M. A., Tlelo-Cuautle, E. & De la Fraga, G. L. (2021). On the sizing of cmos operational amplifiers by applying many-objective optimization algorithms. [Electronics, 10\(24\): 3148.](#)
4. Acharya, S., Adamova, D., Adler, A. et al. (2021). Inclusive J/Psi Production at Midrapidity in Pp Collisions at Root S=13 Tev. [European Physical Journal C, 81\(12\): 1121.](#)
5. Abrego-Gacia, A., Poggi-Varaldo, H. M., Robles-Gonzalez, V., Ponce-Noyola, T., Calva-Calva, G., Rios-Leal, E., Estrada-Barcenas, D. & Mendoza-Vargas, A. (2021). Lovastatin as a Supplement to Mitigate Rumen Methanogenesis: an Overview. [Journal of Animal Science and Biotechnology, 12\(1\): 123.](#)
6. Galindo, A. A. G., Galli, L. G. & Franco, A. G. (2021). Artificial Selection of Maize as a Bridging Case to Teach Natural Selection: a Simulation Proposal. [Journal of Biological Education, 55\(5\): 487-500.](#)
7. Sirunyan, A. M., Tumasyan, A., Adam, W. et al. (2021). Search for a Heavy Resonance Decaying to a Top Quark and a W Boson at Root S=13 Tev in the Fully Hadronic Final State. [Journal of High Energy Physics, \(12\): 106.](#)
8. Rosas-Medellin, D., Perez-Salcedo, K. Y., Morales-Acosta, D., Rodriguez-Varela, F. J. & Escobar, B. (2021). Green Synthesis of Pt Nanoparticles and Their Application in the Oxygen Reduction Reaction. [Journal of Materials Research, 36: 4131-4140.](#)
9. Zepeda-Bastida, A., Ocampo-Lopez, J., Alarcon-Sanchez, B. R., Idelfonso-Garcia, O. G., Rosas-Madrigal, S., Aparicio-Bautista, D. I., Perez-Carreon, J. I., Villa-Trevino, S. & Arellanes-Robledo, J. (2021). Aqueous Extracts From Tenebrio Molitor Larval and Pupal Stages Inhibit Early Hepatocarcinogenesis in Vivo. [Journal of Zhejiang University-Science B, 22\(12\): 1045-1052.](#)
10. Morales-Nieto, C. R., Siqueiros-Candia, M., Alvarez-Holguin, A., Gil-Vega, K. D., Corrales-Lerma, R. & Martinez-Salvador, M. (2021). Diversity, Genetic Structure, and Hybridization in Pinus Arizonica and P. Durangensis Populations. [Madera Y Bosques, 27\(2\): e2722170.](#)
11. Hernandez-Miranda, M., Gutierrez-Castaneda, E., Palomares-Sanchez, S. et al. (2021). Evolution of Microstructure and Texture in Low-Carbon Grain Non-Oriented Electrical Steels Processed From Solid-State Columnar Microstructures. *Metallography Microstructure and Analysis*, 10: 876-889.

-
12. Ramirez-Bocanegra, E. G., Diaz-Guillen, J. A., Montemayor, S. M. & Rodriguez-Varela, F. J. (2021). Enhanced Catalytic Activity of Gd-Doped Electrospun CuFe₂O₄ Fibers for the Oxygen Reduction Reaction (Orr). [Mrs Advances, 6: 839-846](#).
 13. Wong-Villarreal, A., Mendez-Santiago, E. W., Gomez-Rodriguez, O. et al. (2021). Nematicidal activity of the endophyte *Serratia ureilytica* against *Nacobbus aberrans* in chili plants (*Capsicum annuum* L.) and identification of genes related to biological control. [Plants-Basel, 10\(12\): 2655](#).
 14. Canfora, F., Flores-Alfonso, D., Lagos, M. & Vera, A. (2021). Analytic Nonhomogeneous Condensates in the (2+1)-Dimensional Yang-Mills-Higgs-Chern-Simons Theory at Finite Density. [Physical Review D, 104\(12\): 125002](#).
 15. Wong-Villarreal, A., Mendez-Santiago, E. W., Gomez-Rodriguez, O. et al. (2021). Nematicidal activity of the endophyte *Serratia ureilytica* against *Nacobbus aberrans* in chili plants (*Capsicum annuum* L.) and identification of genes related to biological control. [Plants-Basel, 10\(12\): 2655](#).
 16. Chaparro-Encinas, L. A., Santoyo, G., Pena-Cabriaes, J. J., Castro-Espinoza, L., Parra-Cota, F. I. & De los Santos-Villalobos, S. (2021). Transcriptional regulation of metabolic and cellular processes in durum wheat (*Triticum turgidum* subsp. durum) in the face of temperature increasing. [Plants-Basel, 10\(12\): 2792](#).
 17. Merino, G., Fernandez-Herrera, M. A., Soler-Illia Gja et al. (2021). Introduction to Celebrating Latin American Talent in Chemistry. [Rsc Advances, 11\(63\): 40216-40219](#).
 18. Vietri, M., Zambrano, J. L., Rosales, R., Caraballo, G. I., Gutierrez-Escolano, A. L. & Ludert, J. E. (2021). Flavivirus Infections Induce a Golgi Stress Response in Vertebrate and Mosquito Cells. [Scientific Reports, 11\(1\): 23489](#).
 19. Blanco, C. A., Rosario-Lebron, A., Smith-Pardo, A. H., Citrone, C., Hernandez, G., Snyder, C., Mcgee, J. W. & Dubey, A. (2021). Simple Methods to Kill Ants Inside Small Containers. [Southwestern Entomologist, 46\(4\): 879-883](#).