Laboratorio Sistema Integrado de Investigación Científica (SIIC) -Clúster de Computación de Alto Rendimiento (IBEROGUN)

Publicaciones

1. Póster: “HIGH PERFORMANCE COMPUTING (HPC) APPLIED IN A HYDROLOGICAL STUDY IN PANAMA: THE CASE OF THE UPPER WATERSHED OF THE CHAGRES RIVER”, Mélanie Quiróz, *et al*., CARLA – **2025**, Jamaica. (Disponible en: https://hpc-simulations.utp.ac.pa/noticias/)
2. Póster: “Qualitative assessment of High-Performance Computing (HPC) in Panama: stakeholder’s needs and potential users.”, Iván Bonilla, *et al*., CARLA – **2025**, Jamaica. (Disponible en: https://hpc-simulations.utp.ac.pa/noticias/)
3. Póster: “HIGH PERFORMANCE COMPUTING (HPC) AND ITS APPLICATIONS: IBEROGUN CLUSTER – A DEVELOPMENT PERSPECTIVE FROM THE UNIVERSIDAD TECNOLÓGICA DE PANAMÁ (UTP) “, Miguel Salceda*, et al*., CARLA – **2024**, Chile. (Disponible en: https://hpc-simulations.utp.ac.pa/noticias/)
4. Probing radiation resistance in simulated metallic core–shell nanoparticles, D.R. Tramontina, O.R. Deluigi, R. Pinzón, J. Rojas-Nunez, F.J. Valencia, R.C. Pasianot, S.E. Baltazar, R.I. Gonzalez, E.M. Bringa, Computational Materials Science, Volume 227, 2023. https://doi.org/10.1016/j.commatsci.2023.112304
5. Influence of stoichiometry on indentation-induced plasticity in CuZr glasses. KE Avila, S Küchemann, RE Pinzón, HM Urbassek. (**2021**). Applied Physics A 127 (9), 1-9. https://link.springer.com/article/10.1007/s00339-021-04856-4
6. Constrained Molecular Dynamic Simulation of the Potential Mean Force of Lithium Bromide Ion Pairs in Acetonitrile. (2021). R Pinzón. Atoms 9 (3), 57. https://doi.org/10.3390/atoms9030057
7. A climate analogue approach to understanding the future climates of six western South American capital cities. (2021). RE Pinzón, T Nakaegawa, K Hibino, I Takayabu. Atmósfera 34 (3), 255-266. https://orcid.org/0000-0002-5746-9470
8. WEATHER PROJECTIONS AND DYNAMICAL DOWNSCALING FOR THE REPUBLIC OF PANAMA: EVALUATION OF IMPLEMENTATION METHODS

VIA GPGPU ACCELARATION REINHARDT PINZÓN, MICHEL, TOSHIYUKI NAKAEGAWA, JAVIER SÁNCHEZ-GALÁN, MANUEL UJALDÓN, JOSÉ FÁBREGA. Proceedings of the 22nd IAHR-APD Congress 2020, Sapporo, Japan. https://iahrapd2020.xsrv.jp/proceedings/pdf/4-5-5.pdf

9. Reinhardt Pinzón, Herbert M Urbassek. (2001). Implantation and damage under oblique low-energy Si self-bombardment. Physical Review B., 63, 195319. https://doi.org/10.1103/PhysRevB.63.195319
10. Mojica, A., Díaz, I., Ho, C., Ogden, F., Pinzón, R., Fábrega J. R., Vega, D. and Jan Hendrickx, J. (2013). Study of Seasonal Rainfall Infiltration Via Time-Lapse Surface Electrical Resistivity Tomography: Case Study of Gamboa Area, Panama Canal Watershed. Air, Soil and Water Research. Libertas Academica. 131-139. http://www.la-press.com/
11. José Fábrega, Tosiyuki Nakaegawa, Reinhardt Pinzón, Keisuke Nakayama, Osamu Arakawa, Theme SOUSEI (2013). Hydroclimate projections for Panama in the late 21st Century. Hydrological Research Letters, 7, 23-29. https://doi.org/10.3178/hrl.7.23
12. RE Pinzón, K Hibino, I Takayabu, T Nakaegawa. (2017). Virtually experiencing future climate changes in Central America with MRI-AGCM: climate analogues study. Hydrological Research Letters. 11, 106-113. https://doi.org/10.3178/hrl.11.106
13. Shoji Kusunoki, Tosiyuki Nakaegawa, Reinhardt Pinzón, Javier E Sánchez-Galán, José R. Fábrega. (2019). Future precipitation changes over Panama projected with the atmospheric global model MRI-AGCM3. 2.Climate Dynamics. 53, 5019-5034. https://doi.org/10.1007/s00382-019-04842-w
14. Tosiyuki Nakaegawa, Reinhardt Pinzón, José Fábrega, Johnny A Cuevas, Héctor A De Lima, Eric Córdoba, Keisuke Nakayama, Josué Iván Batista Lao, Alcely Lau Melo, Diego Arturo González, Shoji Kusunoki. (2019). Seasonal changes of the diurnal variation of precipitation in the upper Río Chagres basin, Panamá. PloS one. 14, 12. https://doi.org/10.1371/journal.pone.0224662