Artículos Publicados

Divulgación

1. Peralta O, Adams D, Castro T, Grutter M, Varela A. 2016. Mexico's University Network of Atmospheric Observatories, *Eos* 97, https://doi:10.1029/2016EO045273

2. Magaldi A, Salcedo D. 2020. Red Universitaria de Observatorios Atmosféricos (RUOA). *Gaceta UNAM Juriquilla* 35, 11-12.

Artículos científicos

1. Alvarez-Ospina H et al. 2021. Particle-bound polycyclic aromatic hydrocarbons (pPAHs) in Merida, Mexico. *Aerosol Air Qual. Res*. 21, 200245. https://doi.org/10.4209/aaqr.200245

2. Amador-Muñoz O et al. 2020. Current situation of polycyclic aromatic hydrocarbons (PAH) in PM2.5 in a receptor site in Mexico City and estimation of carcinogenic PAH by combining non-real-time and real-time measurement techniques. *Sci. Total Environ*. 703, 134526. https://doi.org/10.1016/j.scitotenv.2019.134526

3. Arellano J et al. 2016. The MAX-DOAS network in Mexico City to measure atmospheric pollutants. *Atmósfera* 29, 157-167. https://doi.org/10.20937/ATM.2016.29.02.05

4. Arredondo-Amezcua L et al. 2018. Hummingbirds in high alpine habitats of the tropical Mexican mountains: new elevational records and ecological considerations. *Avian Conserv. Ecol*. 13, 14. https://doi.org/10.5751/ACE-01202-130114

5. Baylon JL et al. 2017. Background CO2 levels and error analysis from ground-based solar absorption IR measurements in central Mexico. *Atmos. Meas. Tech*. 10, 2425-2434. https://doi.org/10.5194/amt-10-2425-2017

6. Cabrera-Segoviano D et al. 2022. Inter-annual variability of ice-nucleating particles in Mexico City. *Atmos. Environ*. 273, 118964. https://doi.org/10.1016/j.atmosenv.2022.118964

7. Calderón-Garcidueñas L et al. 2022. Hemispheric cortical, cerebellar and caudate atrophy associated to cognitive impairment in Metropolitan Mexico City young adults exposed to fine particulate matter air pollution. *Toxics* 10, 156. https://doi.org/10.3390/toxics10040156

8. Calderón-Ezquerro MC, Serrano-Silva N, Brunner-Mendoza C. 2021. Aerobiological study of bacterial and fungal community composition in the atmosphere of Mexico City throughout an annual cycle. *Environ. Pollut*. 278, 116858. https://doi.org/10.1016/j.envpol.2021.116858

9. Canul Macario C et al. 2020. Empirical relationships of groundwater head–salinity response to variations of sea level and vertical recharge in coastal confined karst aquifers. *Hydrology Journal* 28, 1679-1694. https://doi.org/10.1007/s10040-020-02151-9

10. Carabali G et al. 2021. Characterization of aerosol particles during a high pollution episode over Mexico City. *Sci. Rep*. 11, 22533. https://doi.org/10.1038/s41598-021-01873-4

11. Carrasco-Mijarez NI, Torres-Jardón R, Barrera-Huertas HA. 2020. Correlación PAN-O3 en el suroeste de la Ciudad de México. *Revista Internacional de Contaminación Ambiental*. 36, 907–925. https://doi.org/10.20937/RICA.53581

12. Caudillo L et al. 2020. Nanoparticle size distributions in Mexico City. *Atmos. Pollut. Res*. 11, 78-84. https://doi.org/10.1016/j.apr.2019.09.017

13. Córdoba F et al. 2021. Ice nucleating abilities of biomass burning, African dust, and sea spray aerosol particles over the Yucatan Peninsula. *Atm. Chem. Phys*. 21, 4453-4470. https://doi.org/10.5194/acp-2020-783

14. Coviello V et al. 2021. Earthquake-induced debris flows at Popocatépetl Volcano, Mexico. *Earth Surf. Dynam*. 9, 393–412. https://doi.org/10.5194/esurf-9-393-2021

15. De los Ríos K et al. 2020. Preliminary measurements of Be-10/Be-7 ratio in rainwater for atmospheric transport analysis. *J. Nucl. Phys. Mat. Sci. Rad. A*. 7, 145–151. https://doi.org/10.15415/jnp.2020.72018

16. García-Franco JL. 2020. Air quality in Mexico City during the fuel shortage of January 2019. *Atmos. Environ*. 222, 117131. https://doi.org/10.1016/j.atmosenv.2019.117131

17. García-Franco JL et al. 2018. Variability of the mixed-layer height over Mexico City. *Boundary-Layer Meteorol*. 167, 493-507. https://doi.org/10.1007/s10546-018-0334-x

18. Gómez-Arroyo S et al. 2017. In situ biomonitoring of air quality in rural and urban environments of Mexico Valley through genotoxicity evaluated in wild plants. *Atmos. Pollut. Res*. 9, 119-125. https://doi.org/10.1016/j.apr.2017.06.009

19. González del Castillo E et al. 2021. CO_2 variability in the Mexico City region from in situ measurements at an urban and a background site. *Atmósfera* 35, 377-393. En prensa. https://doi.org/10.20937/ATM.52956

20. Hannigan JW et al. 2021. Global Atmospheric OCS Trend Analysis from 22 NDACC Stations. *JGR: Atmospheres*. En revisión. https://doi.org/10.1002/essoar.10508457.1

21. Hernández-López AE et al. 2021. A study of PM2.5 elemental composition in Southwest Mexico City and development of receptor models with positive matrix factorization. *Rev. Int. Contam. Ambie*. 37, 67-88. https://doi.org/10.20937/RICA.54066

22. Ladino LA, Raga GB, Baumgardner D. 2018. On particle-bound polycyclic aromatic hydrocarbons (PPAH) and links to gaseous emissions in Mexico City. *Atmos. Environ*. 194, 31-40. https://doi.org/10.1016/j.atmosenv.2018.09.022

23. Leyte-Lugo M, Sandoval B, Salcedo D, Peralta O, Castro T, Alvarez-Ospina H. 2022. Variations of Black Carbon concentrations in two sites in Mexico: A high-altitude national park and a semi-urban site. *Atmosphere* 13, 216. https://doi.org/10.3390/atmos13020216

24. Liñán-Abanto RN et al. 2019. Optical properties of atmospheric particles over an urban site in Mexico City and a peri-urban site in Queretaro. *J. Atmos. Chem*. 76, 201–228. https://doi.org/10.1007/s10874-019-09394-1

25. Liñán Abanto RN et al. 2020. Mediciones continuas de carbono negro, monóxido de carbono y dióxido de carbono, durante la temporada seca caliente 2016, en un sitio periurbano de Querétaro, México. *Ciencia y Desarrollo* 26, 68–76. https://doi.org/10.33326/26176033.2020.26.934

26. Liñán-Abanto RN et al. 2021. Temporal variations of black carbon, carbon monoxide, and carbon dioxide in Mexico City: Mutual correlations and evaluation of emissions inventories. *Urban Clim*. 37, 100855. https://doi.org/10.1016/j.uclim.2021.100855

27. Medellín G, Torres-Freyermuth A. 2021. Foredune formation and evolution on a prograding sea-breeze dominated beach. *Cont. Shelf Res*. 226, 104495. https://doi.org/10.1016/j.csr.2021.104495

28. Mendo-Pérez G et al. 2021. Ground-coupled airwaves template match detection using broadband seismic records of explosive eruptions at Popocatépetl volcano, Mexico. *J. Volcanol. Geother. Res*. 419, 107378. https://doi.org/10.1016/j.jvolgeores.2021.107378

29. Montero-Martínez G. 2021. The effect of altitude on the prediction of momentum for rainfall erosivity studies in Mexico. *Catena* 207, 105604. https://doi.org/10.1016/j.catena.2021.105604

30. Montero-Martínez G, García-García F, Arenal-Casas S. 2020. The change of rainfall kinetic energy with altitude. *J. Hydrol*. 584, 124685. https://doi.org/10.1016/j.jhydrol.2020.124685

31. Montero-Martínez G, Gómez-Balvás SS, García-García F. 2021.Study of rain classification and the tendency of gamma DSD parameterizations in Mexico. *Atmos. Res*. 252, 105431. https://doi.org/10.1016/j.atmosres.2020.105431

32. Montero-Martínez G, Torres-Pérez EF, García-García F. 2016. A comparison of two optical precipitation sensors with different operating principles: The PWS100 and the OAP-2DP. *Atmos. Res*. 178-179, 550-558. https://doi.org/10.1016/j.atmosres.2016.05.007

33. Muñoz-Salazar J et al. 2020. Ultrafine Aerosol Particles in the Western Caribbean: A first case study in Merida. *Atmos. Pollut. Res*. 11, 1767-1775. https://doi.org/10.1016/j.apr.2020.07.008

34. Ortega Rosas CI, Calderón-Ezquerro MC, Gutiérrez-Ruacho OG. 2020. Fungal spores and pollen are correlated with meteorological variables: effects in human health at Hermosillo, Sonora, Mexico. *Intl. J. Environ. Health Res*. 30, 677-695. https://doi.org/10.1080/09603123.2019.1625031

35. Ortega-Rosas CI et al. 2020. Association of airborne particulate matter with pollen, fungal spores, and allergic symptoms in an arid urbanized area. *Environ. Geochem. Health*. 43, 1761-1782. https://doi.org/10.1007/s10653-020-00752-7

36. Parker G et al. 2018. Effects of hurricane disturbance on a tropical dry forest canopy in western Mexico. *For. Ecol. Manag*. 426, 39-52. https://doi.org/10.1016/j.foreco.2017.11.037

37. Peralta O et al. 2019. Atmospheric black carbon concentrations in Mexico. *Atmos. Res*. 230, 104626. https://doi.org/10.1016/j.atmosres.2019.104626

38. Pereira D et al. 2021. Characterization of ice nucleating particles in rainwater, cloud water, and aerosol samples at two different tropical latitudes. *Atm. Res*. 250, 105356. https://doi.org/10.1016/j.atmosres.2020.105356

39. Plaza-Medina EF et al. 2017. Ground-based remote sensing of O3 by high and medium resolution FTIR spectrometers over the Mexico City basin. *Atmos. Meas. Tech*. 10, 2703-2725. https://doi.org/10.5194/amt-10-2703-2017

40. Raga GB et al. 2021. ADABBOY: African Dust and Biomass Burning over the Yucatan. *Bull. Am. Meteorol. Soc*. 102, E1543–E1556. https://doi.org/10.1175/BAMS-D-20-0172.1

41. Ramírez-Romero C et al. 2021. African Dust Particles over the western Caribbean Part I: Impact on air quality over the Yucatan Peninsula. *Atm. Chem. Phys*. 21, 239–253. https://doi.org/10.5194/acp-21-239-2021

42. Rodríguez Gómez C et al. 2020. Characterization of culturable airborne microorganisms in the Yucatan Peninsula. *Atmos. Environ*. 223, 117183. https://doi.org/10.1016/j.atmosenv.2019.117183

43. Rozanes-Valenzuela DA, Magaldi AV, Salcedo D. 2021. Regional flow climatology for central Mexico (Queretaro): a first case study. *Atmósfera*. En prensa. https://doi.org/10.20937/ATM.53038

44. Sanchez-Cabeza JA et al. 2019. A low-cost long-term model of coastal observatories of global change. *J. Oper. Oceanogr*. 12, 34-46. https://doi.org/10.1080/1755876X.2018.1533723

45. Schiavo B et al. 2020. Evaluation of possible impact on human health of atmospheric mercury emanations from the Popocatépetl volcano. *Environ. Geochem. Health* 42, 3717–3729. https://doi.org/10.1007/s10653-020-00610-6

46. Schiavo B et al. 2021. In vitro assessment oral and respiratory bioaccessibility of Mn in school dust: Insight of seasonality in a semiarid environment. *Appl. Geochem*. 134, 105102. https://doi.org/10.1016/j.apgeochem.2021.105102

47. Villagómez F et al. 2019. Effect of tree identity, temporal variation and edaphic parameters on the structure of the edaphic community of oribatid mites in an evergreen tropical forest of Mexico. *Appl. Ecol. Environ. Res*. 17, 14621-14639. http://dx.doi.org/10.15666/aeer/1706_1462114639