Elsa Arellano-Torres

https://orcid.org/0000-0001-5237-8636

Sitios web

Institutional Web-page and CV (http://www.paginaspersonales.unam.mx/curriculums/index/alias:elsaarellano)

GiST, School of Sciences, UNAM (https://www.fciencias.unam.mx/investigacion/ciencias-tierra/gist)

País

México

Palabras clave

Paleoceanography, Paleoclimatology, Micropaleontology, Geochemistry, Ecology, Neotropical

Otras ID

Scopus Author ID: 6507319962 (http://www.scopus.com/inward/authorDetails.url?authorID=6507319962&partnerID=MN8TOARS)

Biografía

My primary research interests are the documentation and study of Quaternary abrupt climatic changes registered in coastal and marine sediment cores using planktonic and benthic foraminifera, geochemical proxies, and time-series analyses. I work with marine sediment-cores from the Eastern Tropical Pacific, the Gulf of Mexico, and the Caribbean Sea, to reconstruct the changes in the surface ocean, marine productivity, oxygenation, subsurface denitrification, and intermediate circulation at different temporal scales: secular, millennial and glacial-interglacial. One of my project goals aims to reconstruct changes in atmospheric circulation linked to ocean circulation and to reconstruct connections between continental and oceanic zones. I am currently working on Holocene-Pleistocene paleoceanography in the NW Mexican Pacific and collaborating with projects in sandy beaches and coastal lagoons in the Gulf of Mexico and the Caribbean.

Empleo (3)

Universidad Nacional Autónoma de México: Ciudad Universitaria, Mexico City, MX
2022-03-01 hasta la fecha | Associate Professor (Facultad de Ciencias, Ecologia y Recursos Naturales)
Employment
Fuente: Elsa Arellano-Torres

Universidad Nacional Autónoma de México: Coyoacan, Mexico City, MX
2014-08-08 hasta 2022-02-28 | Early Associate Professor (Facultad de Ciencias, Ecología y Recursos Naturales)
Employment
Fuente: Elsa Arellano-Torres

Universidad Nacional Autónoma de México: Coyoacan, Mexico City, MX
2013-01-28 hasta 2014-08-03 | Lecturer (Facultad de Ciencias, Física)
Employment
Fuente: Elsa Arellano-Torres

Educación y titulaciones (3)

University of Edinburgh: Edinburgh, Edinburgh, GB
2006-09-01 hasta 2010-06-01 | Ph. D. (School of Geosciences, Oceanography)
Education
Fuente: Elsa Arellano-Torres

Universidad Nacional Autónoma de México: Coyoacan, Distrito Federal, MX
2001-08 hasta 2003-06 | Master in Science (Posgrado en Ciencias del Mar y Limnología)
Education
Fuente: Elsa Arellano-Torres

Universidad Nacional Autónoma de México: Coyoacan, Distrito Federal, MX
1996 hasta 2001-06 | Biologist (Facultad de Ciencias)
Education
Fuente: Elsa Arellano-Torres

Financiamiento (2)

Study of the late Quaternary climate variability in the Gulf of Mexico based on temperature and surface salinity reconstructions
Universidad Nacional Autónoma de México (Mexico City, Mexico City)
2020-02 hasta 2022-12|Subvención
GRANT_NUMBER: PAPIIT - IN118220
Fuente: Elsa Arellano-Torres

The relationship between terrigenous inputs and marine primary productivity at millennial timescales off Baja California, Mexico
Universidad Nacional Autónoma de México (Mexico City, Mexico City)
2017-02 hasta 2019-02|Subvención
GRANT_NUMBER: PAPIIT - IA105517
Fuente: Elsa Arellano-Torres

Obras (23 of 23)

The Loop Current Circulation Over the MIS 9 to MIS 5 Based on Planktonic Foraminifera Assemblages From the Gulf of Mexico
Paleoceanography and Paleoclimatology
2023-03 | journal-article
DOI: 10.1029/2022PA004568
DOI: 10.1002/essoar.10512688.2
Fuente: Elsa Arellano-Torres

Early diagenesis effects on Mg/Ca thermometry during the MIS 9–5 in the Gulf of Mexico, evaluation on foraminifera tests and geochemical signals
Palaeogeography, Palaeoclimatology, Palaeoecology
2023 | journal-article
DOI: 10.1016/j.palaeo.2023.111426
EID: 2-s2.0-85147201556
Parte de ISSN: 00310182
Fuente: Elsa Arellano-Torres*vía*Scopus - Elsevier

Implications of polymodal distributions in the grain size parameters of coastal dune sands (Oaxaca, Mexico)
Sedimentary Geology
2022-07-15 | journal-article
DOI: 10.1016/j.sedgeo.2022.106189
Parte de ISSN: 0037-0738
Fuente: Elsa Arellano-Torres

Sedimentology and structure of a Holocene slump deposit on the continental slope off Baja California, Mexico
Geo-Marine Letters
2021-12 | journal-article
DOI: 10.1007/s00367-021-00713-8
Fuente: Crossref

Petrographic and geochemical analyses of dune sands from southeastern Mexico, Oaxaca, Mexico
Geological Journal
2021-06-28 | journal-article
DOI: 10.1002/gj.4086
Fuente: Crossref

Comparisons between marine productivity and terrestrial input records in the Gulf of California over the last 28 ka
Journal of Quaternary Science
2020-04-28 | journal-article
DOI: 10.1002/jqs.3192
Fuente: Crossref

Surface textures of quartz and ilmenite grains from dune and beach sands of the Gulf of Mexico Coast, Mexico: Implications for fluvial, aeolian and marine transport
Aeolian Research
2020 | journal-article
DOI: 10.1016/j.aeolia.2020.100611
EID: 2-s2.0-85085088576
Parte de ISBN: 18759637
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

Sympatric species develop more efficient ectomycorrhizae in the Pinus-Laccaria symbiosis
Revista Mexicana de Biodiversidad
2019-12-11 | journal-article
DOI: 10.22201/ib.20078706e.2019.90.2868
Parte de ISSN: 2007-8706
Parte de ISSN: 1870-3453
Fuente: Elsa Arellano-Torres

A 14-ka Record of Dust Input and Phytoplankton Regime Changes in the Subtropical NE Pacific: Oceanic and Terrestrial Processes Linked by Teleconnections at Suborbital Scales
Paleoceanography and Paleoclimatology
2019 | journal-article
DOI: 10.1029/2018PA003479
EID: 2-s2.0-85060542282
Parte de ISBN: 25724525 25724517
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

Mid to late Holocene hydrological and sea-level change reconstructions from La Mancha coastal lagoon, Veracruz, Mexico
Palaeogeography, Palaeoclimatology, Palaeoecology
2019 | journal-article
DOI: 10.1016/j.palaeo.2019.01.033
EID: 2-s2.0-85061391407
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

Physical degradation and early diagenesis in foraminiferal tests after subaerial exposure in terrigenous-depleted beaches of Yucatan, Mexico
Carbonates and Evaporites
2019 | journal-article
DOI: 10.1007/s13146-019-00485-4
EID: 2-s2.0-85062715048
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

Mineralogical and geochemical implications of weathering rates in coastal dunes and beach sands close to a volcanic rock source in the western Gulf of Mexico, Mexico
Chemie der Erde
2018 | journal-article
DOI: 10.1016/j.chemer.2018.06.004
EID: 2-s2.0-85049992316
Fuente: Elsa Arellano-Torres*vía*Scopus - Elsevier

Late Pleistocene-Holocene variability in the southern Gulf of Mexico surface waters based on planktonic foraminiferal assemblages
Marine Micropaleontology
2017-03 | journal-article
DOI: 10.1016/j.marmicro.2017.04.001
Fuente: Crossref

A study of carbonate beach sands from the Yucatan Peninsula, Mexico: a case study
Carbonates and Evaporites
2017 | journal-article
DOI: 10.1007/s13146-015-0283-0
EID: 2-s2.0-84949504816
Fuente: Elsa Arellano-Torres*vía*Scopus - Elsevier

Clavulina-Membranomyces is the most important lineage within the highly diverse ectomycorrhizal fungal community of Abies religiosa
Mycorrhiza
2017 | journal-article
DOI: 10.1007/s00572-016-0724-1
EID: 2-s2.0-84983381058
Fuente: Elsa Arellano-Torres*vía*Scopus - Elsevier

Identification and control of pathogenic fungi in neotropical valued orchids (Laelia spp.)
Tropical Plant Pathology
2017 | journal-article
DOI: 10.1007/s40858-017-0171-3
EID: 2-s2.0-85029798930
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

Word-wide meta-analysis of Quercus forests ectomycorrhizal fungal diversity reveals southwestern Mexico as a hotspot
Mycorrhiza
2017 | journal-article
DOI: 10.1007/s00572-017-0793-9
EID: 2-s2.0-85027883037
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

Persistent millennial-scale climate variability in the eastern tropical North Pacific over the last two glacial cycles
Paleoceanography
2015 | journal-article
DOI: 10.1002/2014PA002714
EID: 2-s2.0-84947237630
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

Foraminiferal faunal evidence for Glacial-Interglacial variations in the ocean circulation and the upwelling of the Gulf of Tehuantepec (Mexico)
Marine Micropaleontology
2013 | journal-article
DOI: 10.1016/j.marmicro.2013.04.001
EID: 2-s2.0-84879291718
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

High-resolution opal records from the eastern tropical Pacific provide evidence for silicic acid leakage from HNLC regions during glacial periods
Quaternary Science Reviews
2011 | journal-article
DOI: 10.1016/j.quascirev.2011.02.002
EID: 2-s2.0-79955722748
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

Interhemispheric leakage of isotopically heavy nitrate in the eastern tropical Pacific during the last glacial period
Paleoceanography
2010 | journal-article
DOI: 10.1029/2009PA001754
EID: 2-s2.0-78650520660
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

Recent planktonic foraminiferal distribution patterns and their relation to hydrographic conditions of the Gulf of Tehuantepec, Mexican Pacific
Marine Micropaleontology
2008 | journal-article
DOI: 10.1016/j.marmicro.2007.08.003
EID: 2-s2.0-37249084547
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

²¹⁰Pb geochronology and trace metal fluxes (Cd, Cu and Pb) in the Gulf of Tehuantepec, South Pacific of Mexico
Journal of Environmental Radioactivity
2004 | journal-article
DOI: 10.1016/j.jenvrad.2004.03.024
EID: 2-s2.0-7444233579
Fuente: Elsa Arellano-Torres *vía* Scopus - Elsevier

Revisión de expertos (6)

- actividad de revisión para **Arabian journal of geosciences. (1)**
- actividad de revisión para **Geo-marine letters. (2)**
- actividad de revisión para **Geophysical Research Letters (1)**
- actividad de revisión para **Journal of GeophysicalResearch: Biogeosciences (1)**
- actividad de revisión para **Journal of paleolimnology. (1)**
- actividad de revisión para **PALEOCEANOGRAPHY AND PALEOCLIMATOLOGY (1)**

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