



ELIZABETH HERNANDEZ ALVAREZ

Datos Generales

Nombre: ELIZABETH HERNANDEZ ALVAREZ

Máximo nivel de estudios: MAESTRÍA

Antigüedad académica en la UNAM: 28 años

Nombramientos

Vigente: TECNICO ACADEMICO TITULAR C TC Definitivo
Instituto de Geofísica
Desde 01-01-2023

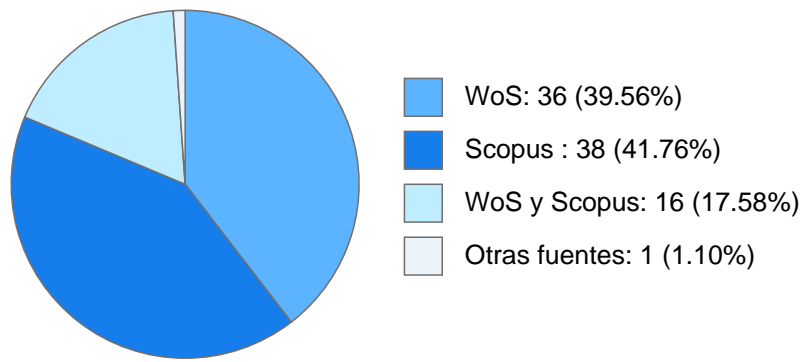
Estímulos, programas, premios y reconocimientos

PRIDE D 2022 - 2024
PRIDE C - 2022
ESPECIALES JULIO MONGES CALDERA 2021 - 2022

ELIZABETH HERNANDEZ ALVAREZ

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	HOW HEALTHY ARE HORTICULTURAL PLANTS CULTIVATED IN URBAN GARDENS IN POLLUTED CITIES? THE CASE OF MEXICO CITY;	ELIZABETH HERNANDEZ ALVAREZ OFELIA MORTON BERMEA MARGARITA COLLAZO ORTEGA et al.	REVISTA INTERNACIONAL DE CONTAMINACION AMBIENTAL	2024
2	Chemical speciation of organic compounds and elemental compositions of PM2.5 in Mexico City: Spatial-seasonal distribution, emission sources, and formation processes	ALFONSO ENRIQUE HERNANDEZ LOPEZ GRACIELA LIZETT SANTOS MEDINA OFELIA MORTON BERMEA et al.	ATMOSPHERIC RESEARCH	2023
3	Health risk assessment of gaseous elemental mercury (GEM) in Mexico City	OFELIA MORTON BERMEA ROCIO GARCIA MARTINEZ ELIZABETH HERNANDEZ ALVAREZ et al.	ENVIRONMENTAL MONITORING AND ASSESSMENT	2022
4	Growth, biomass, carbon and nutrient pools in Gmelina arborea established in pure and mixed forest stand production systems in Mexico	ELIZABETH HERNANDEZ ALVAREZ HOMERO JULIO EUDES CAMPO ALVES Ruiz-Blandon B.A. et al.	NEW FORESTS	2022
5	Cytotoxic and pro-inflammatory effects of miniscrews subject to corrosion in oral cell cultures	JOSE MARTINEZ ZEPEDA ROBERTO RUIZ DIAZ RENE GARCIA CONTRERAS et al.	J LONG-TERM EFF MED	2021

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6	Mercury, Platinum, Antimony and Other Trace Elements in the Atmospheric Environment of the Urban Area of Mexico City: Use of Ficus benjamina as Biomonitor	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ Ordoñez-Godínez S.L. et al.	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	2021
7	Recovery of indium from jarosite residues of zinc refinery by a hydrometallurgical process	AGUEDA ELENA CENICEROS GOMEZ OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ et al.	Hydrometallurgy	2021
8	Metal(loid) exposure on children from a historical metallurgical site	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ Javier Castro-Larragoitia et al.	ENVIRONMENTAL GEOCHEMISTRY AND HEALTH	2021
9	Historical trends of metals concentration in PM10 collected in the Mexico City metropolitan area between 2004 and 2014	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ Manuel Alejandro Almorin-Avila et al.	ENVIRONMENTAL GEOCHEMISTRY AND HEALTH	2021
10	Gaseous Elemental Mercury (GEM) in the Mexico City Metropolitan Area	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ Benedetto Schiavo et al.	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	2021
11	Hydrogeochemical characteristics and assessment of drinkingwater quality in the Urban Area of Zamora, Mexico	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ Reyes-Toscano C.A. et al.	WATER	2020
12	Estimates of mercury flux and temporal variability of Hg/SO2 ratio in the plume of Popocatépetl volcano (Mexico)	OFELIA MORTON BERMEA EDGAR JOSUE ARELLANO HERNANDEZ ELIZABETH HERNANDEZ ALVAREZ et al.	JOURNAL OF SOUTH AMERICAN EARTH SCIENCES	2020
13	Platinum concentration in PM2.5 in the Mexico City Metropolitan Area: relationship to meteorological conditions	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ Sara Ordonez Godinez et al.	HUMAN AND ECOLOGICAL RISK ASSESSMENT	2020
14	Effect of cadmium on the concentration of essential metals in a human chondrocyte micromass culture	JAVIER FERNANDEZ TORRES MARIA AURORA ARMIENTA HERNANDEZ ELIZABETH HERNANDEZ ALVAREZ et al.	JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY	2020

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15	Evaluation of possible impact on human health of atmospheric mercury emanations from the Popocatepetl volcano	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ Schiavo B. et al.	ENVIRONMENTAL GEOCHEMISTRY AND HEALTH	2020
16	Spatial and temporal distribution of metals in PM 2.5 during 2013: assessment of wind patterns to the impacts of geogenic and anthropogenic sources	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ OMAR AMADOR MUÑOZ et al.	ENVIRONMENTAL MONITORING AND ASSESSMENT	2019
17	Assessment of a simple extraction method to determine the bioaccessibility of potentially toxic Tl, As, Pb, Cu, Zn and Cd in soils contaminated by mining-metallurgical waste	MARIO VILLALOBOS PEÑALOSA FRANCISCO MARTIN ROMERO ELIZABETH HERNANDEZ ALVAREZ et al.	REVISTA INTERNACIONAL DE CONTAMINACION AMBIENTAL	2019
18	Recognition of the importance of geogenic sources in the content of metals in PM2.5 collected in the Mexico City Metropolitan Area	OFELIA MORTON BERMEA RODRIGO GARZA GALINDO FLORES ELIZABETH HERNANDEZ ALVAREZ et al.	ENVIRONMENTAL MONITORING AND ASSESSMENT	2018
19	Atmospheric PM2.5 Mercury in the Metropolitan Area of Mexico City	OFELIA MORTON BERMEA RODRIGO GARZA GALINDO FLORES ELIZABETH HERNANDEZ ALVAREZ et al.	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	2018
20	Fractionation and mobility of thallium in areas impacted by mining-metallurgical activities: Identification of a water-soluble Tl(I) fraction	MARIO VILLALOBOS PEÑALOSA FRANCISCO MARTIN ROMERO ELIZABETH HERNANDEZ ALVAREZ et al.	ENVIRONMENTAL POLLUTION	2018
21	Lanthanide geochemistry of the fluorite deposits in the Taxco and Zacualpan mining districts, southern Mexico: implications for the origin and evolution of fluids	TERESA PI PUIG JESUS SOLE VIÑAS OFELIA MORTON BERMEA et al.	REVISTA MEXICANA DE CIENCIAS GEOLOGICAS	2017
22	Increase in platinum group elements in Mexico City as revealed from growth rings of Taxodium mucronatum ten	OFELIA MORTON BERMEA LAURA EUGENIA BERAMENDI OROSCO ELIZABETH HERNANDEZ ALVAREZ et al.	ENVIRONMENTAL GEOCHEMISTRY AND HEALTH	2016
23	Anthropogenic impact of the use of Hg in mining activities in Cedral S.L.P. Mexico	OFELIA MORTON BERMEA RAMON GERARDO JIMENEZ GALICIA ELIZABETH HERNANDEZ ALVAREZ et al.	ENVIRONMENTAL EARTH SCIENCES	2015

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24	Increase of the environmental pt concentration in the metropolitan area of Mexico City associated to the use of automobile catalytic converters	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ Sara Ordonez Godinez et al.	Environmental Science and Engineering-Environmental Engineering	2015
25	Metal accumulation by plant species growing on a mine contaminated site in Mexico	OFELIA MORTON BERMEA MARIA AURORA ARMIENTA HERNANDEZ RUFINO LOZANO SANTA CRUZ et al.	ENVIRONMENTAL EARTH SCIENCES	2014
26	Platinum in PM2.5 of the metropolitan area of Mexico City	OFELIA MORTON BERMEA OMAR AMADOR MUÑOZ ELIZABETH HERNANDEZ ALVAREZ et al.	ENVIRONMENTAL GEOCHEMISTRY AND HEALTH	2014
27	Correlations between metals in tree-rings of Prosopis juliflora as indicators of sources of heavy metal contamination	LAURA EUGENIA BERAMENDI OROSCO M. L. Rodriguez Estrada OFELIA MORTON BERMEA et al.	APPLIED GEOCHEMISTRY	2013
28	The study of metal contamination in urban topsoils of Mexico City using GIS	MARIA TERESA DE JESUS RODRIGUEZ SALAZAR OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ et al.	ENVIRONMENTAL EARTH SCIENCES	2011
29	TRACE METAL CONTENTS IN SEDIMENTS FROM CUITZEO LAKE, MICHOACAN, MEXICO	OFELIA MORTON BERMEA RUFINO LOZANO SANTA CRUZ Nuria Segovia et al.	FRESENIUS ENVIRONMENTAL BULLETIN	2011
30	Assessment of Atmospheric Metal Pollution in the Urban Area of Mexico City, Using Ficus benjamina as Biomonitor	Janin Guzman Morales OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ et al.	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	2011
31	Lead isotopes as tracers of anthropogenic pollution in urban topsoils of Mexico City	OFELIA MORTON BERMEA MARIA TERESA DE JESUS RODRIGUEZ SALAZAR ELIZABETH HERNANDEZ ALVAREZ et al.	GEOCHEMISTRY	2011
32	Development and validation of an analytical method for the determination of lead isotopic composition using ICP-QMS	MARIA TERESA DE JESUS RODRIGUEZ SALAZAR OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ et al.	GEOFISICA INTERNACIONAL	2010
33	Spatial Distribution of Heavy Metals in Top Soils Around the Industrial Facilities of Cromatos de M,xico, Tultitlan Mexico	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ RUFINO LOZANO SANTA CRUZ et al.	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	2010

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34	Assessment of heavy metal pollution in urban topsoils from the metropolitan area of Mexico City	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ GALIA GONZALEZ HERNANDEZ et al.	JOURNAL OF GEOCHEMICAL EXPLORATION	2009
35	Enrichments of trace elements in settling particulate matter from the Alfonso Basin, La Paz Bay, southwestern Gulf of California in 2002-2005 time-series data set	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ Shumilin, E. et al.	GEOCHIMICA ET COSMOCHIMICA ACTA	2008
36	Assimilation of granitic xenoliths in the Michoacán-Guanajuato volcanic field: The case of Arócutin, Michoacán, Mexico [Asimilación de xenolitos graníticos en el Campo Volcánico Michoacán-Guanajuato: El caso de Arócutin Michoacán,	ADELA MARGARITA REYES SALAS RUFINO LOZANO SANTA CRUZ OFELIA MORTON BERMEA et al.	REVISTA MEXICANA DE CIENCIAS GEOLOGICAS	2006
37	Traffic-related platinum group elements (PGE) in soils from Mexico City	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ Puchelt H. et al.	JOURNAL OF GEOCHEMICAL EXPLORATION	2001
38	Development and application of an analytical method to determine trace elements in water using ICP-MS	OFELIA MORTON BERMEA ELIZABETH HERNANDEZ ALVAREZ Lounejeva E. et al.	IAHS Publication	1999
39	Magnetic field work and IGRF models for Mexico, three examples for the 20th century	ELIZABETH HERNANDEZ ALVAREZ Orozco A.	EARTH PLANETS AND SPACE	1997
40	Magnetic field work and IGRF models for Mexico, three examples for the 20th century	ELIZABETH HERNANDEZ ALVAREZ Orozco A.	J GEOMAGN GEOELECTR	1997



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



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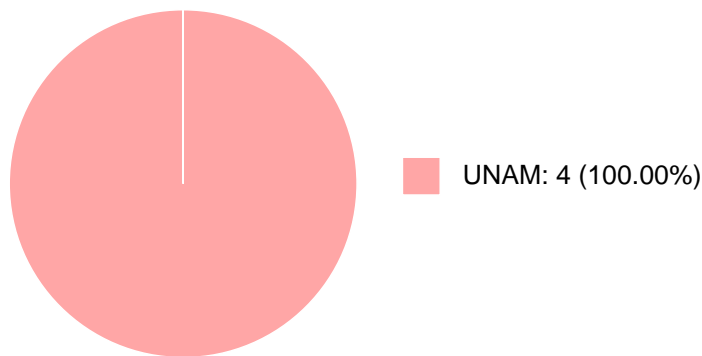
No se encuentran registros en la base de datos de Humanindex asociados a:

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

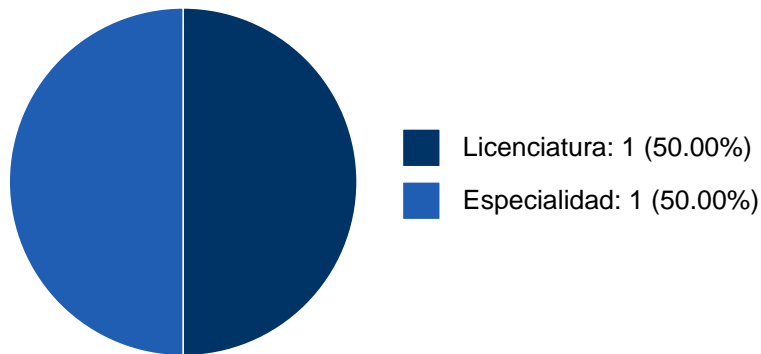


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Metodologías analíticas para el análisis de elementos traza por ICP-MS.	ELIZABETH HERNANDEZ ALVAREZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2018	31-12-2020
2	Geoquímica ambiental de elementos traza.	ELIZABETH HERNANDEZ ALVAREZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2021	31-12-2021
3	Geoquímica de metales traza.	ELIZABETH HERNANDEZ ALVAREZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2022	31-12-2022
4	Validación de una metodología analítica para determinar metales traza en sangre humana, con ácidos diluidos.	ELIZABETH HERNANDEZ ALVAREZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2023	31-12-2023

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

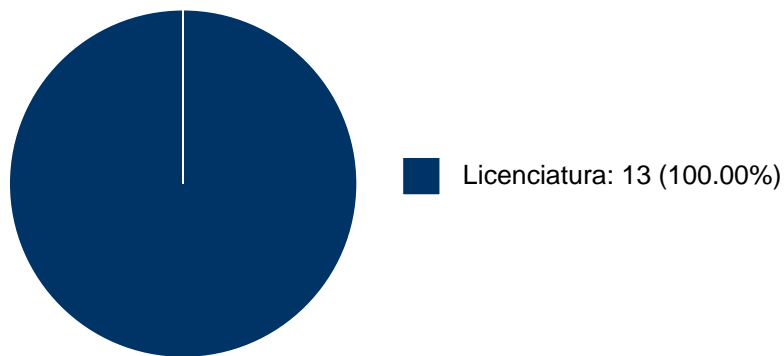


#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Correlación clínico radiológica de los pacientes pediátricos con enfermedad pulmonar intersticial crónica, después del tratamiento con pulsos de metilprednisolona	Tesis de Especialidad	ELIZABETH HERNANDEZ ALVAREZ,	Buenrostro Gaitán, Alicia,	Instituto de Geofísica,	2014
2	Determinación de metales pesados por ICP-MS en agua de lluvia colectada en Ciudad Universitaria, México	Tesis de Licenciatura	GERMAN CALVA VASQUEZ,	ELIZABETH HERNANDEZ ALVAREZ, Quiñones Rizo, Gloria Sachenka,	Facultad de Estudios Superiores "Zaragoza", Instituto de Geofísica,	2008

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	GEOQUIMICA	Facultad de Ciencias	10	2018-1
2	Licenciatura	TALLER INVEST.CIENCIAS ACUATICS.II	Facultad de Ciencias	1	2018-1
3	Licenciatura	TALLER INVEST.CIENCIAS AMBIENTS.II	Facultad de Ciencias	3	2018-1
4	Licenciatura	TALLER INVEST.CIENCIAS ACUATICS.I	Facultad de Ciencias	1	2017-2
5	Licenciatura	TALLER INVEST.CIENCIAS AMBIENTS.I	Facultad de Ciencias	3	2017-2
6	Licenciatura	TALLER INVEST.CIENCIAS ACUATICS.II	Facultad de Ciencias	1	2017-2
7	Licenciatura	TALLER INVEST.CIENCIAS AMBIENTS.II	Facultad de Ciencias	1	2017-2
8	Licenciatura	TALLER INVEST.CIENCIAS AMBIENTS.II	Facultad de Ciencias	4	2017-1
9	Licenciatura	TALLER INVEST.CIENCIAS ACUATICS.II	Facultad de Ciencias	1	2017-1
10	Licenciatura	TALLER INVEST.CIENCIAS ACUATICS.I	Facultad de Ciencias	1	2017-1
11	Licenciatura	TALLER INVEST.CIENCIAS AMBIENTS.I	Facultad de Ciencias	1	2017-1
12	Licenciatura	TALLER INVEST.CIENCIAS ACUATICS.I	Facultad de Ciencias	1	2016-2
13	Licenciatura	TALLER INVEST.CIENCIAS AMBIENTS.I	Facultad de Ciencias	4	2016-2



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



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PATENTES

No se encuentran registros en la base de datos de patentes asociados a:

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FUENTES DE INFORMACIÓN

Internos

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2024
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

Externos

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024