



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



**JORGE ALBERTO PEREZ Y PERAZA**

## Datos Generales

**Nombre:** JORGE ALBERTO PEREZ Y PERAZA

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 49 años

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## Nombramientos

**Último:** INVESTIGADOR TITULAR C TC Definitivo  
Instituto de Geofísica  
Desde 01-01-2008 (fecha inicial de registros en el  
SIIA) hasta 31-12-2022

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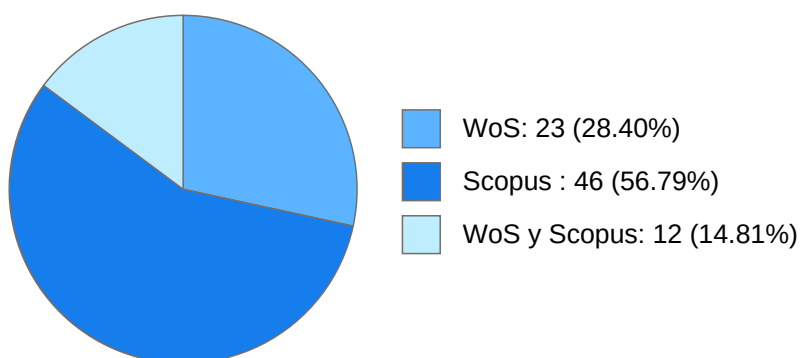
## Estímulos, programas, premios y reconocimientos

SNI II - 2023  
PRIDE C 2014 - 2022  
PRIDE Fijo 2014  
PRIDE C 2014  
PRIDE Fijo 2014  
PRIDE D - 2013  
PRIDE C 2008

**JORGE ALBERTO PEREZ Y PERAZA**

**DOCUMENTOS EN REVISTAS**

**Histórico de Documentos**



| # | Título                                                                                                  | Autores                                                                                              | Revista                                       | Año  |
|---|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------|------|
| 1 | The New Composite Solar Flare Index from Solar Cycle 17 to Cycle 24 (1937–2020)                         | VICTOR MANUEL VELASCO HERRERA<br>JORGE ALBERTO PEREZ Y PERAZA<br>Willie Soon et al.                  | SOLAR PHYSICS                                 | 2022 |
| 2 | Spectra of the two official GLEs of solar cycle 24                                                      | JORGE ALBERTO PEREZ Y PERAZA<br>ROGELIO ANTONIO CABALLERO LOPEZ<br>ROBERTO RENE MANZANO ISLAS et al. | ADVANCES IN SPACE RESEARCH                    | 2020 |
| 3 | Determination of GLE of Solar Energetic Particles by Means of Spectral Analysis                         | JORGE ALBERTO PEREZ Y PERAZA<br>VICTOR MANUEL VELASCO HERRERA<br>Juan C. Marquez–Adame               | ASTROPHYSICAL JOURNAL                         | 2019 |
| 4 | Source Energy Spectrum of the 17 May 2012 GLE                                                           | JORGE ALBERTO PEREZ Y PERAZA<br>VICTOR MANUEL VELASCO HERRERA<br>Márquez–Adame J.C. et al.           | Journal Of Geophysical Research–Space Physics | 2018 |
| 5 | Prognosis of GLEs of relativistic solar protons                                                         | JORGE ALBERTO PEREZ Y PERAZA<br>Alan JuarezZuniga                                                    | ASTROPHYSICAL JOURNAL                         | 2015 |
| 6 | Solar cosmic rays: 70 years of ground-based observations                                                | JORGE ALBERTO PEREZ Y PERAZA<br>Miroshnichenko, L. I. Vashenyuk, E. V.                               | GEOMAGNETISM AND AERONOMY                     | 2013 |
| 7 | Oscillations of galactic cosmic rays and solar indices before the arrival of relativistic solar protons | JORGE ALBERTO PEREZ Y PERAZA<br>VICTOR MANUEL VELASCO HERRERA<br>J. Zapotitla et al.                 | GEOMAGNETISM AND AERONOMY                     | 2012 |

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|    |                                                                                                                                                                           |                                                                                              |                                                                        |      |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------|
| 8  | Classification of GLE's as a function of their spectral content for prognostic goals                                                                                      | JORGE ALBERTO PEREZ Y PERAZA<br>VICTOR MANUEL VELASCO HERRERA<br>Zapotitla J. et al.         | Proceedings Of The 32nd International Cosmic Ray Conference, Icrc 2011 | 2011 |
| 9  | Do cosmic rays influence ozone depletion in the antarctic ozone hole?                                                                                                     | JORGE ALBERTO PEREZ Y PERAZA<br>VICTOR MANUEL VELASCO HERRERA<br>Alvarez-Madrigal M. et al.  | Proceedings Of The 32nd International Cosmic Ray Conference, Icrc 2011 | 2011 |
| 10 | Search for periodicities in galactic cosmic rays, sunspots and coronal index before arrival of relativistic protons from the sun                                          | JORGE ALBERTO PEREZ Y PERAZA<br>Velasco-Herrera V.M. Zapotitla J. et al.                     | Bulletin of the Russian Academy of Sciences: Physics                   | 2011 |
| 11 | Two-component concept for ground level enhancements of solar cosmic rays: Solar and interplanetary aspects                                                                | JORGE ALBERTO PEREZ Y PERAZA<br>Miroshnichenko L.I. Vashenyuk E.V.                           | Bulletin of the Russian Academy of Sciences: Physics                   | 2009 |
| 12 | Pulses with modulation analysis of ground level proton events                                                                                                             | JORGE ALBERTO PEREZ Y PERAZA<br>Velasco V.M. Zapotitla J. et al.                             | 31st International Cosmic Ray Conference, Icrc 2009                    | 2009 |
| 13 | IMPULSIVE, STOCHASTIC, AND SHOCK WAVE ACCELERATION OF RELATIVISTIC PROTONS IN LARGE SOLAR EVENTS OF 1989 SEPTEMBER 29, 2000 JULY 14, 2003 OCTOBER 28, AND 2005 JANUARY 20 | JORGE ALBERTO PEREZ Y PERAZA<br>Vashenyuk, E. V. Miroshnichenko, L. I. et al.                | ASTROPHYSICAL JOURNAL                                                  | 2009 |
| 14 | Astrophysical aspects in the studies of solar cosmic rays                                                                                                                 | L. I. Miroshnichenko JORGE ALBERTO PEREZ Y PERAZA                                            | International Journal Of Modern Physics A                              | 2008 |
| 15 | Solar, geomagnetic and cosmic ray intensity changes, preceding the cyclone appearances around Mexico                                                                      | JORGE ALBERTO PEREZ Y PERAZA<br>VICTOR MANUEL VELASCO HERRERA<br>ENRIQUE AZPRA ROMERO et al. | ADVANCES IN SPACE RESEARCH                                             | 2008 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------|
| 16 | Atlantic hurricanes, geomagnetic changes and cosmic ray variations. part ii. forbush decreases and hurricane velocity changes       | JORGE ALBERTO PEREZ Y PERAZA<br>Kavlakov S. Elsner J.                                        | Proceedings Of The 30th International Cosmic Ray Conference, Icrc 2007 | 2007 |
| 17 | Atlantic hurricanes, geomagnetic changes and cosmic ray variations. part i. geomagnetic disturbances and hurricane intensifications | JORGE ALBERTO PEREZ Y PERAZA<br>Kavlakov S. Elsner J.                                        | Proceedings Of The 30th International Cosmic Ray Conference, Icrc 2007 | 2007 |
| 18 | Two-component features of the two largest GLEs: February 23, 1956 and January 20, 2005                                              | JORGE ALBERTO PEREZ Y PERAZA<br>Vashenyuk E.V. Miroshnichenko L.I. et al.                    | Proceedings Of The 30th International Cosmic Ray Conference, Icrc 2007 | 2007 |
| 19 | On the trend of Atlantic Hurricane with Cosmic Rays                                                                                 | JORGE ALBERTO PEREZ Y PERAZA<br>VICTOR MANUEL VELASCO HERRERA<br>ENRIQUE AZPRA ROMERO et al. | Proceedings Of The 30th International Cosmic Ray Conference, Icrc 2007 | 2007 |
| 20 | Energetic solar particle charge behavior during source acceleration                                                                 | JORGE ALBERTO PEREZ Y PERAZA<br>Rodríguez-Frías D. Del Peral L. et al.                       | Proceedings Of The 30th International Cosmic Ray Conference, Icrc 2007 | 2007 |
| 21 | Impulsive neutral current sheet and stochastic acceleration vs shock wave acceleration spectra of relativistic solar protons        | JORGE ALBERTO PEREZ Y PERAZA<br>Gallegos-Cruz A. Miroshnichenko L.I. et al.                  | Proceedings Of The 30th International Cosmic Ray Conference, Icrc 2007 | 2007 |
| 22 | On a plausible relation between Cosmic Rays and the Antarctic ozone hole size                                                       | JORGE ALBERTO PEREZ Y PERAZA<br>VICTOR MANUEL VELASCO HERRERA<br>Alvarez-Madrigal M.         | Proceedings Of The 30th International Cosmic Ray Conference, Icrc 2007 | 2007 |

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|----|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------|------|
| 23 | Relativistic solar cosmic ray events (1956–2006) from GLE modeling studies                              | JORGE ALBERTO PEREZ Y PERAZA<br>Vashenyuk E.V. Balabin Y.V. et al.          | Proceedings Of The 30th International Cosmic Ray Conference, Icrc 2007 | 2007 |
| 24 | Some features of the sources of relativistic particles at the Sun in the solar cycles 21–23             | JORGE ALBERTO PEREZ Y PERAZA<br>Vashenyuk E.V. Balabin Yu.V. et al.         | ADVANCES IN SPACE RESEARCH                                             | 2006 |
| 25 | Relativistic proton production at the sun in the October 28th, 2003 solar event                         | JORGE ALBERTO PEREZ Y PERAZA<br>Gallegos–Cruz A. Vashenyuk E.V. et al.      | ADVANCES IN SPACE RESEARCH                                             | 2006 |
| 26 | Different types of plasma turbulence in the process of solar particle acceleration                      | JORGE ALBERTO PEREZ Y PERAZA<br>Miroshnichenko L.I. Vashenyuk E.V. et al.   | AIP Conference Proceedings                                             | 2006 |
| 27 | Analysis of the evolution of the Antarctic ozone hole size                                              | JORGE ALBERTO PEREZ Y PERAZA<br>Alvarez–Madrigal M.                         | Journal Of Geophysical Research                                        | 2005 |
| 28 | Proton–proton total cross–sections at VHE from accelerator data                                         | JORGE ALBERTO PEREZ Y PERAZA<br>Sánchez–Hertz A. Alvarez–Madrigal M. et al. | NEW JOURNAL OF PHYSICS                                                 | 2005 |
| 29 | Model of ionic charge states of impulsive solar energetic particles in solar flares                     | JORGE ALBERTO PEREZ Y PERAZA<br>Rodríguez–Frías M.D. Del Peral L.           | Journal Of Geophysical Research–Space Physics                          | 2001 |
| 30 | Particle charge evolution during acceleration processes in solar flares                                 | JORGE ALBERTO PEREZ Y PERAZA<br>Rodríguez–Frías M.D. Del Peral L.           | JOURNAL OF PHYSICS G–NUCLEAR AND PARTICLE PHYSICS                      | 2000 |
| 31 | Prediction of interplanetary shock waves using cosmic ray fluctuations                                  | JORGE ALBERTO PEREZ Y PERAZA<br>AMANDO LEYVA CONTRERAS Ya Libin I. et al.   | GEOFISICA INTERNACIONAL                                                | 1998 |
| 32 | Diagnostics of solar particle acceleration processes                                                    | JORGE ALBERTO PEREZ Y PERAZA<br>Gallegos–Cruz A.                            | ADVANCES IN SPACE RESEARCH                                             | 1998 |
| 33 | Derivation of analytical particle spectra from the solution of the transport equation by the WKB method | JORGE ALBERTO PEREZ Y PERAZA<br>Gallegos–Cruz A.                            | ASTROPHYSICAL JOURNAL                                                  | 1995 |
| 34 | Large ground level events in solar cycle 22 and some peculiarities of relativistic proton acceleration  | JORGE ALBERTO PEREZ Y PERAZA<br>Vashenyuk E.V. Miroshnichenko L.I. et al.   | ADVANCES IN SPACE RESEARCH                                             | 1994 |

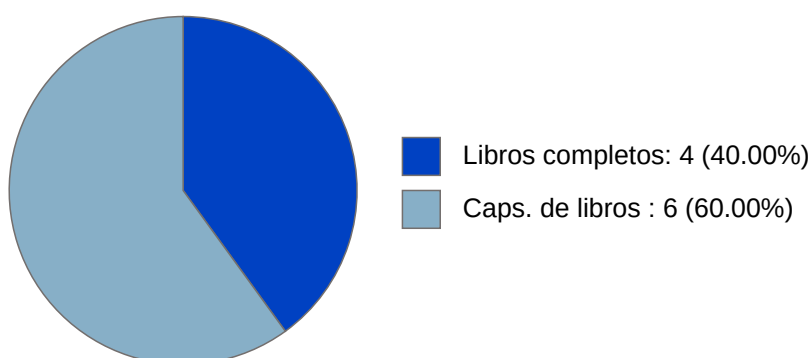
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|    |                                                                                                                |                                                                                  |                                           |      |
|----|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------|------|
| 35 | Weightiness of the dispersive rate in stochastic acceleration processes                                        | JORGE ALBERTO PEREZ Y PERAZA<br>Gallegos-Cruz A.                                 | ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES   | 1994 |
| 36 | Solar particle acceleration by slow magnetosonic waves                                                         | JORGE ALBERTO PEREZ Y PERAZA<br>Gallegos A. Miroshnichenko L.I. et al.           | ADVANCES IN SPACE RESEARCH                | 1993 |
| 37 | Electron-capture spectroscopy for identification of source ionization states and acceleration processes of SCR | JORGE ALBERTO PEREZ Y PERAZA<br>Alvarez-Madrigal M. Gallegos-Cruz A.             | ADVANCES IN SPACE RESEARCH                | 1989 |
| 38 | Characteristic of flare emission from electron interactions with source matter and electromagnetic fields      | JORGE ALBERTO PEREZ Y PERAZA<br>Gallegos-Cruz A.<br>Alvarez-Magdrigal M.         | ADVANCES IN SPACE RESEARCH                | 1989 |
| 39 | Coronal transport of solar flare particles                                                                     | JORGE ALBERTO PEREZ Y PERAZA                                                     | SPACE SCIENCE REVIEWS                     | 1986 |
| 40 | Acceleration of particles in shocked magnetic neutral sheets                                                   | JORGE ALBERTO PEREZ Y PERAZA<br>JESUS MANUEL ALVAREZ LOPEZ<br>Mullan D.J. et al. | ADVANCES IN SPACE RESEARCH                | 1984 |
| 41 | Explicit dependence on temperature of particles energy losses in plastic detectors                             | JORGE ALBERTO PEREZ Y PERAZA<br>Laville A. Camacho S. et al.                     | NUCLEAR TRACKS AND RADIATION MEASUREMENTS | 1984 |
| 42 | Track profile determination by direct digital processing of SEM images                                         | JORGE ARTURO LIRA CHAVEZ JORGE ALBERTO PEREZ Y PERAZA<br>Peralta-Fabi Ri. et al. | NUCLEAR TRACKS AND RADIATION MEASUREMENTS | 1984 |
| 43 | EXPLICIT DEPENDENCE ON TEMPERATURE OF PARTICLES ENERGY LOSSES IN PLASTIC DETECTORS.                            | JORGE ALBERTO PEREZ Y PERAZA<br>Laville A. Camacho S. et al.                     | Nuclear Tracks                            | 1983 |
| 44 | TRACK PROFILE DETERMINATION BY DIRECT DIGITAL PROCESSING OF SEM IMAGES.                                        | JORGE ARTURO LIRA CHAVEZ JORGE ALBERTO PEREZ Y PERAZA<br>Peralta-Fabi Ri. et al. | Nuclear Tracks                            | 1983 |
| 45 | Particle charge interchange during acceleration in flare regions                                               | JORGE ALBERTO PEREZ Y PERAZA<br>JULIO JAVIER MARTINELL BENITO<br>Villareal A.    | ADVANCES IN SPACE RESEARCH                | 1982 |
| 46 | Upper cutoff of high energy solar protons                                                                      | JORGE ALBERTO PEREZ Y PERAZA<br>Heristchi Dj. Trottet G.                         | SOLAR PHYSICS                             | 1976 |

**JORGE ALBERTO PEREZ Y PERAZA**

**LIBROS Y CAPITULOS CON ISBN**

**Obras con registro ISBN**



| # | Título                                                                             | Autores                                                                                   | Alcance              | Año  | ISBN          |
|---|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------|------|---------------|
| 1 | Homage to the discovery of cosmic rays, the meson-muon and solar cosmic rays       | JORGE ALBERTO PEREZ Y PERAZA VICTOR MANUEL VELASCO HERRERA                                | Libro Completo       | 2013 | 9781628080421 |
| 2 | Homage to the discovery of cosmic rays, the meson-muon and solar cosmic rays       | JORGE ALBERTO PEREZ Y PERAZA                                                              | Libro Completo       | 2013 | 9781626189980 |
| 3 | Echinoderm research and diversity in Latin America                                 | FRANCISCO ALONSO SOLIS MARIN ALICIA DE LA LUZ DURAN GONZALEZ JORGE ALBERTO PEREZ Y PERAZA | Libro Completo       | 2013 | 9783642200502 |
| 4 | Cycles in economical processes and posible influence of offs-site factor son then  | JORGE ALBERTO PEREZ Y PERAZA                                                              | Capítulo de un Libro | 2013 | 9785905114113 |
| 5 | Variants of Russian Future                                                         | JORGE ALBERTO PEREZ Y PERAZA                                                              | Capítulo de un Libro | 2013 | 9785905114113 |
| 6 | ABOUT THE ACTION OF HELIOPHISICAL PARAMETERS ON GEOPHYSICAL PROCESSES IN THE EARTH | JORGE ALBERTO PEREZ Y PERAZA                                                              | Capítulo de un Libro | 2013 | 9785905114113 |
| 7 | LAS CONSECUENCIAS SOCIALES Y ECONÓMICAS DEL CAMBIO CLIMÁTICO MUNDIAL.              | JORGE ALBERTO PEREZ Y PERAZA                                                              | Capítulo de un Libro | 2013 | 9785905114113 |

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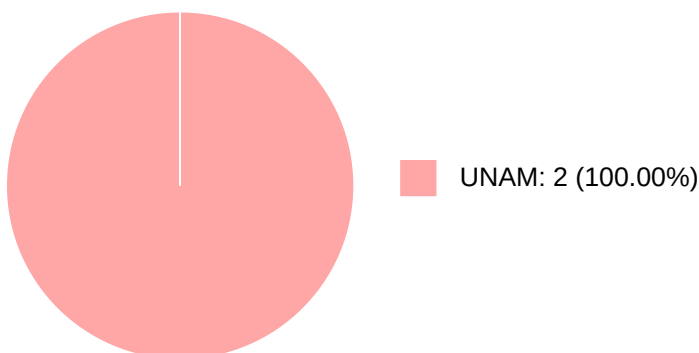
|    |                                                                                                              |                                       |                      |      |               |
|----|--------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|------|---------------|
| 8  | Global Economic Crisis in 2010: dynamics of the Crisis in Russia, challenges, risks, prospects in the future | JORGE ALBERTO PEREZ Y PERAZA          | Capítulo de un Libro | 2013 | 9785905114113 |
| 9  | Highlights in Helioclimatology                                                                               | JORGE ALBERTO PEREZ Y PERAZA Libin I. | Libro Completo       | 2012 | 9780124159778 |
| 10 | El papel de la actividad solar a largo plazo en los cambios del clima.                                       | JORGE ALBERTO PEREZ Y PERAZA          | Capítulo de un Libro | 2010 | 9785905114014 |



**JORGE ALBERTO PEREZ Y PERAZA**

**PARTICIPACIÓN EN PROYECTOS**

**Histórico de participación en proyectos**

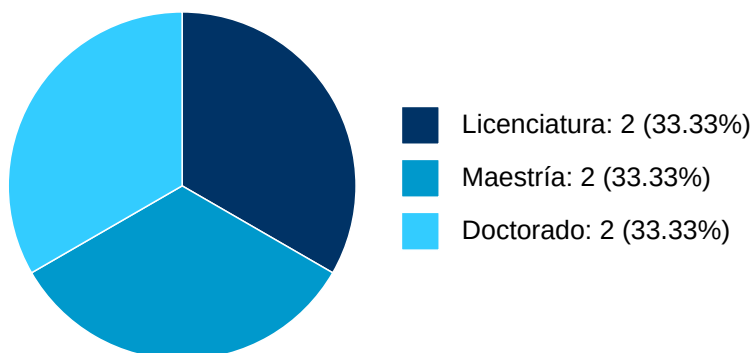


| # | Nombre                                                                                              | Participantes                | Fuente                                           | Fecha inicio | Fecha fin  |
|---|-----------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|--------------|------------|
| 1 | Estudio de partículas solares.                                                                      | JORGE ALBERTO PEREZ Y PERAZA | Presupuesto de la UNAM asignado a la Dependencia | 01-01-2018   | 31-12-2021 |
| 2 | Predicción de huracanes del Océano Pacífico por medio de "Teaching learning" y lógica difusa. 2023. | JORGE ALBERTO PEREZ Y PERAZA | Presupuesto de la UNAM asignado a la Dependencia | 01-01-2022   | 31-12-2023 |

**JORGE ALBERTO PEREZ Y PERAZA**

**PARTICIPACIÓN EN TESIS**

**Histórico de Colaboraciones en Tesis**



| # | Título del documento                                                                                                                                                                                                                                            | Tipo de Tesis         | Sinodales                     | Autores                                                             | Entidad                 | Año  |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------|---------------------------------------------------------------------|-------------------------|------|
| 1 | Estudio de la aceleración estocástica y determinística de las partículas solares relativistas                                                                                                                                                                   | Tesis de Doctorado    | LUIS XAVIER GONZALEZ MENDEZ,  | JORGE ALBERTO PEREZ Y PERAZA, VICTOR MANUEL VELASCO HERRERA, et al. | Instituto de Geofísica, | 2019 |
| 2 | Método para el pronóstico de eventos de naturaleza estocástica por análisis espectral y estadístico : aplicación a incrementos a nivel terrestre de partículas solares relativistas (gle's por sus siglas en inglés) y huracanes del Atlántico Norte de categor | Tesis de Licenciatura | JORGE ALBERTO PEREZ Y PERAZA, | Juárez Zúñiga, Alan,                                                | Instituto de Geofísica, | 2014 |

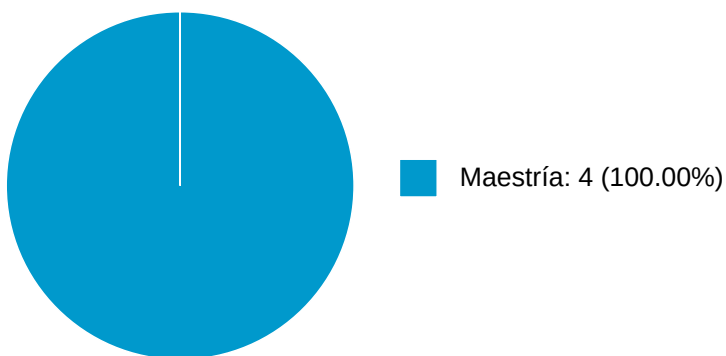
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|---|-----------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|------|
| 3 | Detector prototipo de rayos cósmicos secundarios para conocer la contribución relativa de cada una de sus componentes | Tesis de Maestría     | LUIS XAVIER GONZALEZ MENDEZ,  | GUSTAVO ADOLFO MEDINA TANCO, JORGE ALBERTO PEREZ Y PERAZA, et al. | Instituto de Ciencias Nucleares, Instituto de Geofísica, | 2013 |
| 4 | Oscilaciones Dansgaard-Oeschger : aplicando Wavelet de Coherencia                                                     | Tesis de Maestría     | JORGE ALBERTO PEREZ Y PERAZA, | VICTOR MANUEL VELASCO HERRERA, Sosa Flores, Oscar,                | Instituto de Geofísica,                                  | 2009 |
| 5 | Evidencias de occlusion del hoyo de ozono antartico                                                                   | Tesis de Doctorado    | JORGE ALBERTO PEREZ Y PERAZA, | Alvarez Madrigal, Manuel,                                         |                                                          | 2005 |
| 6 | Espectroscopia por captura electronica como metodo de diagnostico de plasmas astrofisicos y de laboratorio            | Tesis de Licenciatura | JORGE ALBERTO PEREZ Y PERAZA, | Alvarez Madrigal, Manuel,                                         |                                                          | 1989 |

**JORGE ALBERTO PEREZ Y PERAZA**

**DOCENCIA IMPARTIDA**

**Histórico de docencia**



| # | Nivel titulación | Asignatura                 | Entidad                | Alumnos | Semestre |
|---|------------------|----------------------------|------------------------|---------|----------|
| 1 | Maestría         | MAGNETO-HIDRODINAMICA I    | Instituto de Geofísica | 1       | 2010-1   |
| 2 | Maestría         | SEMINARIO DE INVESTIGACION | Instituto de Geofísica | 1       | 2009-2   |
| 3 | Maestría         | MAGNETO-HIDRODINAMICA I    | Instituto de Geofísica | 1       | 2009-1   |
| 4 | Maestría         | FISICA DE PLASMAS I        | Instituto de Geofísica | 4       | 2008-1   |



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



**JORGE ALBERTO PEREZ Y PERAZA**

**PATENTES**

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

**JORGE ALBERTO PEREZ Y PERAZA**

**JORGE ALBERTO PEREZ Y PERAZA**

**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    | 2008-2025 |
| 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 |