



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



**BEATRIZ SANCHEZ Y SANCHEZ**

## Datos Generales

**Nombre:** BEATRIZ SANCHEZ Y SANCHEZ

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 45 años

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## Nombramientos

**Vigente:** TECNICO ACADEMICO TITULAR C TC Definitivo  
Instituto de Astronomía  
Desde 01-01-2009

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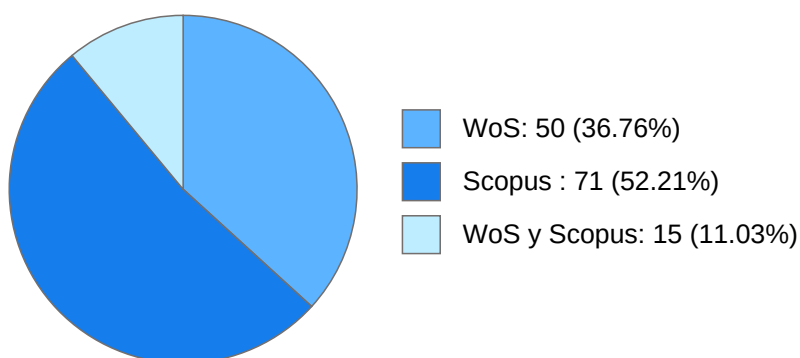
## Estímulos, programas, premios y reconocimientos

PRIDE D - 2024

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**DOCUMENTOS EN REVISTAS**

**Histórico de Documentos**



| # | Título                                                                                                                | Autores                                                                                                | Revista                                                                                     | Año  |
|---|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|
| 1 | The Electronics and Control of mechanisms and House-Keeping for the FRIDA Instrument: Current status and achievements | RUBEN ANQUILINO FLORES MEZA<br>GERARDO LARA LUCARIO ANA<br>CAROLINA KEIMAN FREIRE et al.               | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2024 |
| 2 | AIV of FRIDA optics: from optical manufacturing to system cryogenic qualification                                     | SALVADOR CARLOS CUEVAS<br>CARDONA OSCAR ARMANDO CHAPA<br>HERNANDEZ LUIS CARLOS ALVAREZ<br>NUÑEZ et al. | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2022 |
| 3 | FRIDA: diffraction-limited imaging and integral-field spectroscopy for the GTC                                        | ALAN MORGAN WATSON FORSTER<br>LUIS CARLOS ALVAREZ NUÑEZ OSCAR<br>ARMANDO CHAPA HERNANDEZ et al.        | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2022 |

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| 4  | Bestatin and bacitracin inhibit porcine kidney cortex dipeptidyl peptidase IV activity and reduce human melanoma MeWo cell viability | BEATRIZ SANCHEZ Y SANCHEZ<br>JEAN-LOUIS JOSEPH MARIE CHARLI<br>CASALONGA Méndez L.R. et al.  | INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES                        | 2020 |
| 5  | The First Galaxy Cluster Discovered by the VISTA Variables in the Via Lactea Survey                                                  | BEATRIZ SANCHEZ Y SANCHEZ<br>MARIANA DOMINGUEZ LOPEZ L. D.<br>Baravalle et al.               | ASTROPHYSICAL JOURNAL                                                     | 2019 |
| 6  | The Telescopio San Pedro Martir project                                                                                              | MICHAEL GERARD RICHER WILLIAM<br>HENRY LEE ALARDIN JOSE DE JESUS<br>GONZALEZ GONZALEZ et al. | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2018 |
| 7  | Telescopio San Pedro Martir Observatory Final Design                                                                                 | WILLIAM HENRY LEE ALARDIN MICHAEL<br>GERARD RICHER BEATRIZ SANCHEZ Y<br>SANCHEZ et al.       | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2018 |
| 8  | Determination of the residual and static aberrations of an adaptive optics integral field spectrograph                               | BEATRIZ SANCHEZ Y SANCHEZ ALAN<br>MORGAN WATSON FORSTER<br>SALVADOR CARLOS CUEVAS<br>CARDONA | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2018 |
| 9  | High-contrast observations of circumstellar environments with GTC/FRIDA: design and study of the coronagraphic devices               | SALVADOR CARLOS CUEVAS<br>CARDONA BEATRIZ SANCHEZ Y<br>SANCHEZ N'Diaye M. et al.             | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2018 |
| 10 | Cryogenic application of an autocentering mount working at the diffraction limit                                                     | BEATRIZ SANCHEZ Y SANCHEZ ANA<br>CAROLINA KEIMAN FREIRE JORGE<br>FUENTES FERNANDEZ et al.    | OPTICAL ENGINEERING                                                       | 2017 |
| 11 | Observations of the First Electromagnetic Counterpart to a Gravitational-wave Source by the TOROS Collaboration                      | BEATRIZ SANCHEZ Y SANCHEZ<br>VAHRAM CHAVUSHYAN DEBORA<br>DULTZIN KESSLER et al.              | ASTROPHYSICAL JOURNAL LETTERS                                             | 2017 |

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| 12 | The Telescopio San Pedro Mártir project                                                 | MICHAEL GERARD RICHER WILLIAM HENRY LEE ALARDIN JOSE DE JESUS GONZALEZ GONZALEZ et al.     | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2016 |
| 13 | Telescopio San Pedro Mártir Observatory preliminary design and project approach         | WILLIAM HENRY LEE ALARDIN MICHAEL GERARD RICHER BEATRIZ SANCHEZ Y SANCHEZ et al.           | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2016 |
| 14 | San Pedro Martir telescope: Mexican design endeavor                                     | WILLIAM HENRY LEE ALARDIN MICHAEL GERARD RICHER JOSE DE JESUS GONZALEZ GONZALEZ et al.     | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2016 |
| 15 | Mechanical conceptual design of 6.5 meter telescope: Telescopio San Pedro Mártir (TSPM) | WILLIAM HENRY LEE ALARDIN JOSE DE JESUS GONZALEZ GONZALEZ MICHAEL GERARD RICHER et al.     | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2016 |
| 16 | FRIDÁs mechanisms control system structure and tests                                    | RUBEN ANQUILINO FLORES MEZA GERARDO LARA LUCARIO BEATRIZ SANCHEZ Y SANCHEZ et al.          | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2016 |
| 17 | FRIDA: Diffraction-limited imaging and integral-field spectroscopy for the GTC          | ALAN MORGAN WATSON FORSTER LUIS CARLOS ALVAREZ NUÑEZ SALVADOR CARLOS CUEVAS CARDONA et al. | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2016 |

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| 18 | Advances in the development of FRIDA's mechanisms control system and house-keeping                | RUBEN ANQUILINO FLORES MEZA<br>JOSE LEONARDO GARCES MEDINA<br>GERARDO LARA LUCARIO et al.              | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2014 |
| 19 | The characteristics and development status of the control and housekeeping electronics of FRIDA   | RUBEN ANQUILINO FLORES MEZA<br>BEATRIZ SANCHEZ Y SANCHEZ Díaz<br>J.J. et al.                           | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2014 |
| 20 | FRIDA integral field unit manufacturing                                                           | SALVADOR CARLOS CUEVAS<br>CARDONA BEATRIZ SANCHEZ Y<br>SANCHEZ Eikenberry S.S.                         | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2014 |
| 21 | FRIDA, the diffraction limited NIR imager and IFS for the Gran Telescopio Canarias: Status report | JOSE ALBERTO LOPEZ GARCIA DAVID<br>MITCHELL CLARK SALVADOR CARLOS<br>CUEVAS CARDONA et al.             | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2014 |
| 22 | OPTO-mechanical design of FRIDA                                                                   | BEATRIZ SANCHEZ Y SANCHEZ<br>SALVADOR CARLOS CUEVAS<br>CARDONA CARLOS ALBERTO ESPEJO<br>PIEDRA et al.  | REVISTA<br>MEXICANA DE<br>ASTRONOMIA Y<br>ASTROFISICA,<br>SERIE DE<br>CONFERENCIAS          | 2013 |
| 23 | FRIDA: The AO second generation instrument for GTC, status report                                 | BEATRIZ SANCHEZ Y SANCHEZ<br>SALVADOR CARLOS CUEVAS<br>CARDONA OSCAR ARMANDO CHAPA<br>HERNANDEZ et al. | REVISTA<br>MEXICANA DE<br>ASTRONOMIA Y<br>ASTROFISICA,<br>SERIE DE<br>CONFERENCIAS          | 2013 |

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| 24 | FRIDA integral field unit opto-mechanical design                                                        | SALVADOR CARLOS CUEVAS<br>CARDONA CARLOS ALBERTO ESPEJO<br>PIEDRA BEATRIZ SANCHEZ Y SANCHEZ<br>et al.   | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2012 |
| 25 | Electronics and mechanisms control system for FRIDA (inFRared Imager and Dissector for Adaptive optics) | RUBEN ANQUILINO FLORES MEZA<br>SALVADOR CARLOS CUEVAS<br>CARDONA CARLOS ALBERTO ESPEJO<br>PIEDRA et al. | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2012 |
| 26 | Current status of FRIDA, diffraction limited NIR instrument for the GTC                                 | BEATRIZ SANCHEZ Y SANCHEZ<br>SALVADOR CARLOS CUEVAS<br>CARDONA OSCAR ARMANDO CHAPA<br>HERNANDEZ et al.  | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2012 |
| 27 | OSIRIS tunable imager and spectrograph for the GTC. From design to commissioning                        | BEATRIZ SANCHEZ Y SANCHEZ OSCAR<br>ARMANDO CHAPA HERNANDEZ<br>CARLOS ALBERTO ESPEJO PIEDRA et al.       | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2012 |
| 28 | The role of nanomaterials in redox-based supercapacitors for next generation energy storage devices     | BEATRIZ SANCHEZ Y SANCHEZ Zhao<br>X. Dobson P.J. et al.                                                 | Nanoscale                                                                                   | 2011 |
| 29 | A computer-based tool to foster engineering students' interest in dynamics                              | BEATRIZ SANCHEZ Y SANCHEZ Llado<br>J.                                                                   | COMPUTER<br>APPLICATIONS<br>IN ENGINEERING<br>EDUCATION                                     | 2011 |
| 30 | Novel concepts for low-cost and high-efficient thin film solar cells                                    | BEATRIZ SANCHEZ Y SANCHEZ<br>Gómez D. Menéndez A. et al.                                                | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2011 |

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| 31 | A multiscale simulation study of carbon nanotube interactions with designed amphiphilic peptide helices              | BEATRIZ SANCHEZ Y SANCHEZ<br>Wallace E.J. D'Rozario R.S.G. et al.                                      | Nanoscale                                                                 | 2010 |
| 32 | Cathodoluminescence study of isoelectronic doping of gallium oxide nanowires                                         | BEATRIZ SANCHEZ Y SANCHEZ<br>Nogales E. Méndez B. et al.                                               | SUPERLATTICES AND MICROSTRUCTURES                                         | 2009 |
| 33 | Surface quality of PVC fittings based on the design of the sprue                                                     | BEATRIZ SANCHEZ Y SANCHEZ Lladó J.                                                                     | JOURNAL OF MATERIALS PROCESSING TECHNOLOGY                                | 2008 |
| 34 | Optical design of FRIDA the integral-field spectrograph and imager for the AO system of the gran telescopio canarias | BEATRIZ SANCHEZ Y SANCHEZ<br>CARLOS ALBERTO ESPEJO PIEDRA<br>RUBEN ANQUILINO FLORES MEZA et al.        | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2008 |
| 35 | Cryogenic Tests of Bimetallic Diamond-Turned Mirrors for the FRIDA Integral Field Unit                               | SALVADOR CARLOS CUEVAS<br>CARDONA CARLOS ALBERTO ESPEJO<br>PIEDRA ANA CAROLINA KEIMAN<br>FREIRE et al. | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2008 |
| 36 | GUIELOA, the Mexican adaptive optics system: Expected performance and operation                                      | ALAN MORGAN WATSON FORSTER<br>FERNANDO GARFIAS MACEDO<br>ARTURO ISMAEL IRIARTE VALVERDE et al.         | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2008 |
| 37 | Influence of injection parameters on the formation of blush in injection moulding of PVC                             | BEATRIZ SANCHEZ Y SANCHEZ Lladó J.                                                                     | JOURNAL OF MATERIALS PROCESSING TECHNOLOGY                                | 2008 |
| 38 | Describing function analysis of the electric nonlinear model of a SRM autonomous AC generator                        | BEATRIZ SANCHEZ Y SANCHEZ<br>Martínez A. Oyarbide E. et al.                                            | PESC Record - IEEE Annual Power Electronics Specialists Conference        | 2008 |

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| 39 | Development of an efficient fungal DNA extraction method to be used in random amplified polymorphic DNA-PCR analysis to differentiate cyclopiazonic acid mold producers | BEATRIZ SANCHEZ Y SANCHEZ<br>Rodríguez M. Casado E.M. et al.                                  | JOURNAL OF<br>FOOD<br>PROTECTION                                                                                                             | 2008 |
| 40 | Cathodoluminescence characterization of rare earth doped composite materials based on porous GaP                                                                        | BEATRIZ SANCHEZ Y SANCHEZ<br>Méndez B. Piqueras J. et al.                                     | JOURNAL OF<br>MATERIALS<br>SCIENCE                                                                                                           | 2008 |
| 41 | OSIRIS: Status and science                                                                                                                                              | FRANCISCO JOSE COBOS DUEÑAS<br>CARLOS ALBERTO ESPEJO PIEDRA<br>ALEJANDRO FARAH SIMON et al.   | Highlights Of<br>Spanish<br>Astrophysics Iv<br>- Proceedings<br>Of The 7th<br>Scientific<br>Meeting Of The<br>Spanish<br>Astronomical<br>Soc | 2007 |
| 42 | The curvature wavefront sensor of the Guileo adaptive optics system                                                                                                     | BEATRIZ SANCHEZ Y SANCHEZ ALAN<br>MORGAN WATSON FORSTER Cantó J.<br>et al.                    | REVISTA<br>MEXICANA DE<br>ASTRONOMIA Y<br>ASTROFISICA,<br>SERIE DE<br>CONFERENCIAS                                                           | 2007 |
| 43 | Frida: Near infrared imager and integral field spectroscopy for GTC                                                                                                     | JOSE ALBERTO LOPEZ GARCIA<br>CARLOS ALBERTO ESPEJO PIEDRA<br>BEATRIZ SANCHEZ Y SANCHEZ et al. | REVISTA<br>MEXICANA DE<br>ASTRONOMIA Y<br>ASTROFISICA,<br>SERIE DE<br>CONFERENCIAS                                                           | 2007 |
| 44 | Frida: The first instrument for the adaptive optics system of GTC                                                                                                       | JOSE ALBERTO LOPEZ GARCIA<br>CARLOS ALBERTO ESPEJO PIEDRA<br>BEATRIZ SANCHEZ Y SANCHEZ et al. | REVISTA<br>MEXICANA DE<br>ASTRONOMIA Y<br>ASTROFISICA,<br>SERIE DE<br>CONFERENCIAS                                                           | 2007 |
| 45 | The Guileo adaptive optics system for the observatorio astronómico nacional                                                                                             | ALAN MORGAN WATSON FORSTER<br>BEATRIZ SANCHEZ Y SANCHEZ<br>FERNANDO GARFIAS MACEDO et al.     | REVISTA<br>MEXICANA DE<br>ASTRONOMIA Y<br>ASTROFISICA,<br>SERIE DE<br>CONFERENCIAS                                                           | 2007 |



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| 46 | Simulation model of an AC autonomous switched reluctance generator                               | BEATRIZ SANCHEZ Y SANCHEZ<br>Martinez A. Laloya E. et al.                                     | Eurocon 2007 - The International Conference On Computer As A Tool         | 2007 |
| 47 | The commissioning instrument for the GTC: Made in Mexico                                         | BEATRIZ SANCHEZ Y SANCHEZ<br>CARLOS ALBERTO ESPEJO PIEDRA<br>Bringas V. et al.                | REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS       | 2007 |
| 48 | Steady-state behaviour of an AC autonomous switched reluctance generator                         | BEATRIZ SANCHEZ Y SANCHEZ<br>Martínez A. Vicuña J. et al.                                     | 2007 European Conference On Power Electronics And Applications, Epe       | 2007 |
| 49 | Frida: diffraction limited imaging and integral field spectroscopy with gtc                      | JOSE ALBERTO LOPEZ GARCIA<br>CARLOS ALBERTO ESPEJO PIEDRA<br>BEATRIZ SANCHEZ Y SANCHEZ et al. | REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS       | 2006 |
| 50 | The commissioning instrument for the Gran Telescopio Canarias: Made in Mexico                    | BEATRIZ SANCHEZ Y SANCHEZ<br>CARLOS ALBERTO ESPEJO PIEDRA<br>ALEJANDRO FARAH SIMON et al.     | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2006 |
| 51 | FRIDA: The infrared imager and integral field spectrograph for the adaptive optics system of GTC | JOSE ALBERTO LOPEZ GARCIA<br>BEATRIZ SANCHEZ Y SANCHEZ ALAN<br>MORGAN WATSON FORSTER et al.   | NEW ASTRONOMY REVIEWS                                                     | 2006 |
| 52 | Site acceptance of the commissioning instrument for the Gran Telescopio Canarias                 | BEATRIZ SANCHEZ Y SANCHEZ<br>CARLOS ALBERTO ESPEJO PIEDRA<br>ALEJANDRO FARAH SIMON et al.     | OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII | 2006 |

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| 53 | FRIDA: Integral-field spectrograph and imager for the adaptive optics system of the Gran Telescopio Canarias | JOSE ALBERTO LOPEZ GARCIA<br>CARLOS ALBERTO ESPEJO PIEDRA<br>RUBEN ANQUILINO FLORES MEZA et al.          | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2006 |
| 54 | Development of a curvature wave-front sensor for the GUIELOA adaptive optics system                          | OSCAR ARMANDO CHAPA<br>HERNANDEZ SALVADOR CARLOS<br>CUEVAS CARDONA BEATRIZ SANCHEZ<br>Y SANCHEZ et al.   | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2006 |
| 55 | Acoustic characterization of an induction cooker                                                             | BEATRIZ SANCHEZ Y SANCHEZ Lladó<br>J. Ortiz J. et al.                                                    | 13th<br>International<br>Congress On<br>Sound And<br>Vibration 2006,<br>Icsv 2006           | 2006 |
| 56 | Acoustic behaviour of a switched reluctance motor                                                            | BEATRIZ SANCHEZ Y SANCHEZ Lladó<br>J. Ortiz J. et al.                                                    | 13th<br>International<br>Congress On<br>Sound And<br>Vibration 2006,<br>Icsv 2006           | 2006 |
| 57 | Commissioning instrument for the GTC                                                                         | BEATRIZ SANCHEZ Y SANCHEZ<br>CARLOS ALBERTO ESPEJO PIEDRA<br>Bringas V. et al.                           | REVISTA<br>MEXICANA DE<br>ASTRONOMIA Y<br>ASTROFISICA,<br>SERIE DE<br>CONFERENCIAS          | 2005 |
| 58 | The osiris tunable imager and spectrograph: A 2004 Status Repor                                              | FRANCISCO JOSE COBOS DUEÑAS<br>CARLOS ALBERTO ESPEJO PIEDRA<br>JOSE DE JESUS GONZALEZ GONZALEZ<br>et al. | REVISTA<br>MEXICANA DE<br>ASTRONOMIA Y<br>ASTROFISICA,<br>SERIE DE<br>CONFERENCIAS          | 2005 |

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| 59 | San Pedro Mártir: Astronomical site evaluation                                                      | IRENE ANTONIA CRUZ GONZALEZ<br>ESPINOSA REMY FERNAND AVILA<br>FOUCAT MAURICIO MANUEL TAPIA<br>IBARGUENGOITIA et al. | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2004 |
| 60 | Osiris tunable imager and spectrograph: Instrument status                                           | FRANCISCO JOSE COBOS DUEÑAS<br>CARLOS ALBERTO ESPEJO PIEDRA<br>BEATRIZ SANCHEZ Y SANCHEZ et al.                     | REVISTA<br>MEXICANA DE<br>ASTRONOMIA Y<br>ASTROFISICA,<br>SERIE DE<br>CONFERENCIAS          | 2003 |
| 61 | Geotechnical study of the OAN/SPM                                                                   | BEATRIZ SANCHEZ Y SANCHEZ Díaz G.<br>Castilla J.E. et al.                                                           | REVISTA<br>MEXICANA DE<br>ASTRONOMIA Y<br>ASTROFISICA,<br>SERIE DE<br>CONFERENCIAS          | 2003 |
| 62 | Development of a generalized scidar at UNAM                                                         | REMY FERNAND AVILA FOUCAT<br>LEONARDO JAVIER SANCHEZ PENICHE<br>ARTURO ISMAEL IRIARTE VALVERDE et al.               | REVISTA<br>MEXICANA DE<br>ASTRONOMIA Y<br>ASTROFISICA,<br>SERIE DE<br>CONFERENCIAS          | 2003 |
| 63 | Electronics and acceptance control system for the gran telescopio canarias commissioning instrument | RUBEN ANQUILINO FLORES MEZA<br>GERARDO LARA LUCARIO BEATRIZ<br>SANCHEZ Y SANCHEZ et al.                             | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2002 |
| 64 | OSIRIS tunable imager and spectrograph for the GTC. Instrument status                               | FRANCISCO JOSE COBOS DUEÑAS<br>CARLOS ALBERTO ESPEJO PIEDRA<br>BEATRIZ SANCHEZ Y SANCHEZ et al.                     | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2002 |

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| 65 | Gran telescopic canarias commissioning instrument optomechanics                          | CARLOS ALBERTO ESPEJO PIEDRA<br>BEATRIZ SANCHEZ Y SANCHEZ<br>ALEJANDRO FARAH SIMON et al.                     | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2002 |
| 66 | Commissioning camera for the gran telescopio canarias                                    | CARLOS ALBERTO ESPEJO PIEDRA<br>BEATRIZ SANCHEZ Y SANCHEZ<br>ALEJANDRO FARAH SIMON et al.                     | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2002 |
| 67 | OSIRIS tunable imager and spectrograph                                                   | BEATRIZ SANCHEZ Y SANCHEZ Cepa<br>Jordi Aguiar Marta et al.                                                   | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 2000 |
| 68 | TEQUILA: NIR camera/spectrograph based on a Rockwell 1024 X 1024 HgCdTe FPA              | ELFEGO GUILLERMO RUIZ SCHNEIDER<br>ERIKA SOHN LOPEZ FORMENT IRENE<br>ANTONIA CRUZ GONZALEZ ESPINOSA<br>et al. | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 1998 |
| 69 | Remote control for the OAN 1 m telescope at Tonantzintla, Puebla                         | ABEL BERNAL BEJARLE BEATRIZ<br>SANCHEZ Y SANCHEZ ARTURO ISMAEL<br>IRIARTE VALVERDE                            | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 1998 |
| 70 | Non-steady-state photoelectromotive-force based GaAs adaptive photodetectors at 632.8 nm | BEATRIZ SANCHEZ Y SANCHEZ<br>Korneev N. Rodríguez P. et al.                                                   | Optik                                                                                       | 1996 |



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|    |                                                                                                      |                                                                                      |                                                                                             |      |
|----|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|
| 71 | High-sensitivity adaptive vibration measurements with nonsteady-state photo-EMF-based photodetectors | BEATRIZ SANCHEZ Y SANCHEZ<br>Korneev Nikolai A.<br>Rodriguez-Montero Ponciano et al. | OPTICS,<br>PHOTONICS,<br>AND DIGITAL<br>TECHNOLOGIES<br>FOR IMAGING<br>APPLICATIONS<br>VIII | 1994 |
|----|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|

## BEATRIZ SANCHEZ Y SANCHEZ

### LIBROS Y CAPITULOS CON ISBN

#### Obras con registro ISBN



| # | Título                                                                                                                                                                              | Autores                                                                                               | Alcance              | Año  | ISBN          |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------|------|---------------|
| 1 | FRIDA: diffraction-limited imaging and integral-field spectroscopy for the GTC                                                                                                      | ALAN MORGAN WATSON<br>FORSTER LUIS CARLOS<br>ALVAREZ NUÑEZ OSCAR<br>ARMANDO CHAPA<br>HERNANDEZ et al. | Conferenc<br>e Paper | 2024 | 9781510675155 |
| 2 | Relevance of the infrastructure in laboratories and manufacturing workshops for the integration and validation of astronomical instruments                                          | ANA CAROLINA KEIMAN<br>FREIRE ALEJANDRO<br>FARAH SIMON LUIS<br>CARLOS ALVAREZ NUÑEZ<br>et al.         | Conferenc<br>e Paper | 2024 | 9781510675230 |
| 3 | Modelación Basada en Agentes como instrumento de análisis socioeconómico: El fenómeno del trueque para disminuir la pobreza alimentaria en México                                   | BEATRIZ SANCHEZ Y<br>SANCHEZ García, P.C.<br>Rosano, F.L. et al.                                      | Conferenc<br>e Paper | 2016 | 9781941763391 |
| 4 | Intervención de tipo Organizacional a través de un Proceso de Auto-Organización Guiada, en pro de un Cambio Educativo en el Conservatorio Nacional de Música de la Ciudad de México | FELIPE DE JESUS LARA<br>ROSANO BEATRIZ<br>SANCHEZ Y SANCHEZ De<br>Velazco, F.F. et al.                | Conferenc<br>e Paper | 2016 | 9781941763391 |
| 5 | The sciences of complexity in the solution for our social problems                                                                                                                  | FELIPE DE JESUS LARA<br>ROSANO BEATRIZ<br>SANCHEZ Y SANCHEZ<br>Tremante A. et al.                     | Conferenc<br>e Paper | 2016 | 9781941763391 |

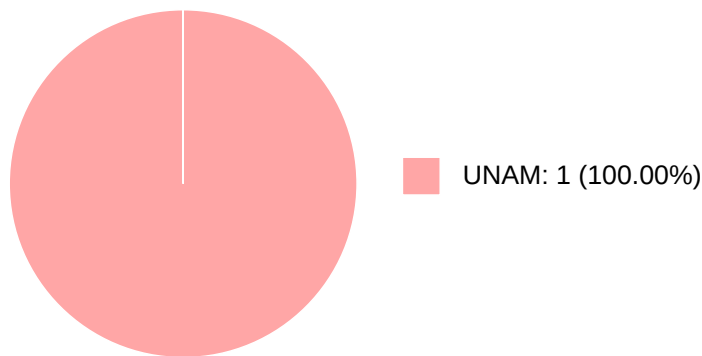
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|----|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|------|---------------|
| 6  | Low-cost VRML based architecture for adaptive and user customized virtual visits to art galleries      | BEATRIZ SANCHEZ Y SANCHEZ Eckert M. Cubero J.M. et al.          | Conferenc<br>e Paper | 2010 | 9781424455386 |
| 7  | Use of an AC self-excited switched reluctance generator as a battery charger                           | BEATRIZ SANCHEZ Y SANCHEZ Martínez A. Oyarbide E. et al.        | Conferenc<br>e Paper | 2008 | 9781424417421 |
| 8  | Inductance Characterization of a SRM Using Finite Element Simulation Data                              | BEATRIZ SANCHEZ Y SANCHEZ Martínez A. Oyarbide E. et al.        | Conferenc<br>e Paper | 2008 | 1424416655    |
| 9  | Test bench for switched reluctance motor drives                                                        | BEATRIZ SANCHEZ Y SANCHEZ Iturbe A.M. Cebolla F.J.P. et al.     | Conferenc<br>e Paper | 2006 | 1424400872    |
| 10 | Influence of coil arrangement and current polarity on the output torque of a switched reluctance motor | BEATRIZ SANCHEZ Y SANCHEZ Pérez Cebolla F.J. Martínez A. et al. | Conferenc<br>e Paper | 2006 | 1424401364    |

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**PARTICIPACIÓN EN PROYECTOS**

**Histórico de participación en proyectos**



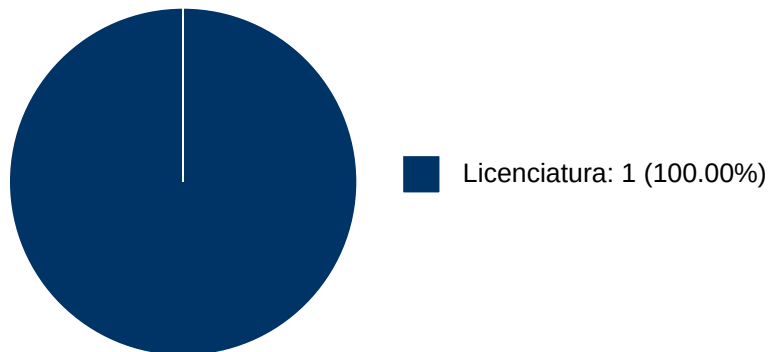
| # | Nombre                                                                   | Participantes                                        | Fuente                                                                                                            | Fecha inicio | Fecha fin  |
|---|--------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------|------------|
| 1 | Infrared Imagen and Disector for the Adaptative optics system GTC FRIDA. | BEATRIZ SANCHEZ Y SANCHEZ ALAN MORGAN WATSON FORSTER | Presupuesto de la UNAM asignado a la Dependencia, Universidades, Centros, Institutos u Organismos Internacionales | 01-01-2015   | 31-12-2026 |



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**PARTICIPACIÓN EN TESIS**

**Histórico de Colaboraciones en Tesis**



| # | Título del documento                                    | Tipo de Tesis         | Sinodales                  | Autores                     | Entidad | Año  |
|---|---------------------------------------------------------|-----------------------|----------------------------|-----------------------------|---------|------|
| 1 | Nociones basicas sobre el diseño de circuitos digitales | Tesis de Licenciatura | BEATRIZ SANCHEZ Y SANCHEZ, | Gonzalez Osorio, Luz Mario, |         | 1989 |



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**DOCENCIA IMPARTIDA**

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

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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    | 2008-2025 |
| 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 |