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Coordinación de Planeación, Evaluación y
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Reporte individual



IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

Datos Generales

Nombre: IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

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Nombramientos

Vigente: INVESTIGADOR TITULAR C TC Definitivo
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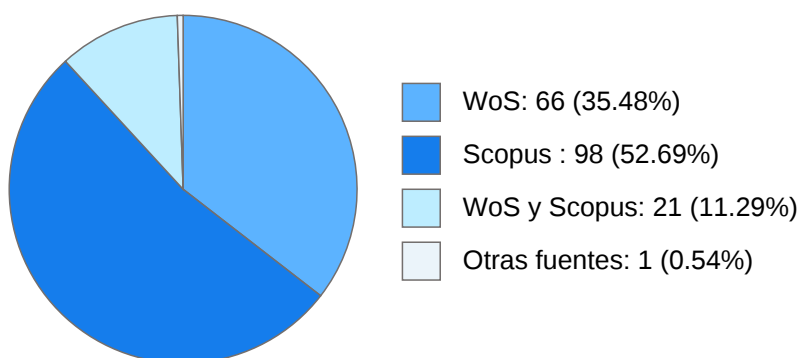
Estímulos, programas, premios y reconocimientos

SNI Emérito 2022 - VIGENTE
SNI III - 2021
PRIDE D - 2024
PASPA Estancias Sabáticas 2014 - 2015
PUN Innovación tecnológica y diseño industrial 2002

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Central versus Global Quenching Traced by the APEX-CALIFA Survey	JORGE KAROLT BARRERA BALLESTEROS IRENE ANTONIA CRUZ GONZALEZ ESPINOSA SEBASTIAN FRANCISCO SANCHEZ SANCHEZ et al.	ASTROPHYSICAL JOURNAL	2025
2	DENSE MOLECULAR GAS AND DUSTY TORUS IN NGC 4303	ANGEL ARENAS SONI IRENE ANTONIA CRUZ GONZALEZ ESPINOSA MARTIN HERRERA ENDOQUI et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA	2025
3	The Lockman'SpReSO project: Galactic flows in a sample of far-infrared galaxies	JOSE DE JESUS GONZALEZ GONZALEZ ERIKA MARIA BENITEZ LIZAOLA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	ASTRONOMY & ASTROPHYSICS	2024
4	GLACE survey: OSIRIS/GTC tuneable imaging of the galaxy cluster ZwCl 0024.0+1652: II. The mass-metallicity relationship and the effect of the environment	MARITZA ARLENE LARA LOPEZ IRENE ANTONIA CRUZ GONZALEZ ESPINOSA JOSE ANTONIO DE DIEGO ONSURBE et al.	ASTRONOMY & ASTROPHYSICS	2024
5	SDSS-IV MaNGA: How Galaxy Interactions Influence Active Galactic Nuclei	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA NIV OLIVER MICHAEL TOMER DRORY Steffen J.L. et al.	ASTROPHYSICAL JOURNAL	2023

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

6	AGNs in the CALIFA survey: X-ray detection of nuclear sources	OMAIRA GONZALEZ MARTIN SEBASTIAN FRANCISCO SANCHEZ SANCHEZ IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2023
7	3D Spectroscopy with GTC-MEGARA of the Triple AGN Candidate in SDSS J102700.40+174900.8	ERIKA MARIA BENITEZ LIZAOLA CASTALIA ALENKA NEGRETE PEÑALOZA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	ASTROPHYSICAL JOURNAL	2023
8	Unravelling the nature of the dual AGN in the galaxy pair system IRAS 05589+2828 and 2MASX J06021107+2828382	ERIKA MARIA BENITEZ LIZAOLA ELENA JIMENEZ BAILON CASTALIA ALENKA NEGRETE PEÑALOZA et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2022
9	Exploring Stellar and Ionized Gas Noncircular Motions in Barred Galaxies with MUSE	CARLOS ALBERTO LOPEZ COBA SEBASTIAN FRANCISCO SANCHEZ SANCHEZ IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	ASTROPHYSICAL JOURNAL	2022
10	SDSS-IV MaNGA: A Star Formation-Baryonic Mass Relation at Kiloparsec Scales	JORGE KAROLT BARRERA BALLESTEROS SEBASTIAN FRANCISCO SANCHEZ SANCHEZ NIV OLIVER MICHAEL TOMER DRORY et al.	ASTROPHYSICAL JOURNAL	2021
11	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 LRG sample: structure growth rate measurement from the anisotropic LRG correlation function in the redshift range $0.6 < z < 1.0$	MARIANA VARGAS MAGAÑA SEBASTIEN MICKAEL MARC FROMENTEAU IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2020
12	The completed SDSS-IV extended baryon oscillation spectroscopic survey: Large-scale structure catalogues for cosmological analysis	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA AXEL RICARDO DE LA MACORRA PETTERSSON MORIEL SEBASTIEN MICKAEL MARC FROMENTEAU et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2020
13	Early science with the LMT: molecular torus in UGC5101	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA ERIKA MARIA BENITEZ LIZAOLA YAIR EMMANUEL KRONGOLD HERRERA et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2020
14	Systematic study of outflows in the Local Universe using CALIFA: I. Sample selection and main properties	CARLOS ALBERTO LOPEZ COBA SEBASTIAN FRANCISCO SANCHEZ SANCHEZ IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2019

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

15	AN ALTERNATIVE APPROACH TO THE FINGER OF GOD IN LARGE SCALE STRUCTURES	LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA	2019
16	Simultaneous generalized and low-layer SCIDAR turbulence profiles at san pedro mártir observatory	REMY FERNAND AVILA FOUCAT LEONARDO JAVIER SANCHEZ PENICHE IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2019
17	Multiwavelength observations of the triple-peaked AGN Mrk 622	ERIKA MARIA BENITEZ LIZAOLA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA OMAIRA GONZALEZ MARTIN et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2019
18	A possible binary nuclei in Mrk 622	ERIKA MARIA BENITEZ LIZAOLA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA OMAIRA GONZALEZ MARTIN et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2018
19	A possible binary AGN in Mrk 622?	ERIKA MARIA BENITEZ LIZAOLA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA OMAIRA GONZALEZ MARTIN et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2018
20	The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the Extended Baryon Oscillation Spectroscopic Survey and from the Second Phase of the Apache Point Observatory Galactic Evolution Experiment	VLADIMIR ANTON AVILA REESE MARIANA CANO DIAZ BERNARDO CERVANTES SODI et al.	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	2018
21	Early Science with the Large Millimeter Telescope: An Energy-driven Wind Revealed by Massive Molecular and Fast X-Ray Outflows in the Seyfert Galaxy IRAS 17020+4544	YAIR EMMANUEL KRONGOLD HERRERA LUIS ALBERTO ZAPATA GONZALEZ IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	ASTROPHYSICAL JOURNAL LETTERS	2018
22	Serendipitous Discovery of an Optical Emission-line Jet in NGC 232	SEBASTIAN FRANCISCO SANCHEZ SANCHEZ IRENE ANTONIA CRUZ GONZALEZ ESPINOSA LUC JOSEPH AURELE BINETTE et al.	ASTROPHYSICAL JOURNAL LETTERS	2017

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

23	SDSS-IV MaNGA: Spatially Resolved Star Formation Main Sequence and LI(N) ER Sequence	SEBASTIAN FRANCISCO SANCHEZ SANCHEZ MARIANA CANO DIAZ IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	ASTROPHYSICAL JOURNAL LETTERS	2017
24	Optical characterization of the active push-pull cell for the 2.1 m telescope at OAN SPM	JOEL HERRERA VAZQUEZ ESTEBAN ANTOLIN LUNA AGUILAR LUIS SALAS CASALES et al.	APPLIED OPTICS	2017
25	Star formation driven galactic winds in UGC 10043	SEBASTIAN FRANCISCO SANCHEZ SANCHEZ IRENE ANTONIA CRUZ GONZALEZ ESPINOSA CHRISTOPHE ROGER JACQUES MORISSET et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2017
26	Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe	VLADIMIR ANTON AVILA REESE YILEN GOMEZ MAQUEO CHEW IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	ASTRONOMICAL JOURNAL	2017
27	THE SDSS-IV EXTENDED BARYON OSCILLATION SPECTROSCOPIC SURVEY: OVERVIEW AND EARLY DATA	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA AXEL RICARDO DE LA MACORRA PETTERSSON MORIEL MARIANA VARGAS MAGAÑA et al.	ASTRONOMICAL JOURNAL	2016
28	Baldwin Effect and Additional BLR Component in AGN with Superluminal Jets	VAHRAM CHAVUSHYAN IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Victor M. Patino-Alvarez et al.	Frontiers In Astronomy And Space Sciences	2016
29	New generation LOLAS: Redesign of an optical turbulence profiler with high altitude-resolution	LEONARDO JAVIER SANCHEZ PENICHE REMY FERNAND AVILA FOUCAT IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2015
30	The host galaxy of the gamma-ray narrow-line seyfert 1 galaxy 1h 0323+342	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Leon Tavares, J. Kotilainen, J. et al.	ASTROPHYSICAL JOURNAL	2014
31	Characterization of a sample of intermediate-type AGNs. I. spectroscopic properties and serendipitous discovery of new dual AGNs	ERIKA MARIA BENITEZ LIZAOLA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Benoni Martinez et al.	ASTROPHYSICAL JOURNAL	2013
32	Characterization of a sample of intermediate-type active galactic nuclei. II. Host bulge properties and black hole mass estimates	ERIKA MARIA BENITEZ LIZAOLA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Benoni Martinez et al.	ASTROPHYSICAL JOURNAL	2013
33	A 10,000 year old explosion in DR21	LUIS ALBERTO ZAPATA GONZALEZ Nadia Perez Goytia LUIS FELIPE DE JESUS RODRIGUEZ JORGE et al.	ASTROPHYSICAL JOURNAL LETTERS	2013

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

34	LAE'S AT Z ~ 4.5: The environment of the radio quiet QSO SDSS J080849.42+521515.3	ERIKA MARIA BENITEZ LIZAOLA YAIR EMMANUEL KRONGOLD HERRERA JOSE DE JESUS GONZALEZ GONZALEZ et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2013
35	LAE'S AT Z similar to 4.5: THE ENVIRONMENT OF THE RADIO QUIET QSO SDSS J080849.42+521515.3	ERIKA MARIA BENITEZ LIZAOLA YAIR EMMANUEL KRONGOLD HERRERA JOSE DE JESUS GONZALEZ GONZALEZ et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2013
36	An estimate of the temporal fraction of cloud cover at San Pedro Martir Observatory	LEONARDO JAVIER SANCHEZ PENICHE REMY FERNAND AVILA FOUCAT IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2012
37	Astroclimate at San Pedro Martir - I. Seeing statistics between 2004 and 2008 from the Thirty Meter Telescope site-testing data	LEONARDO JAVIER SANCHEZ PENICHE IRENE ANTONIA CRUZ GONZALEZ ESPINOSA JUAN MANUEL ECHEVARRIA ROMAN et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2012
38	RECALIBRATED TURBULENCE PROFILES AT SAN PEDRO MARTIR	REMY FERNAND AVILA FOUCAT LEONARDO JAVIER SANCHEZ PENICHE IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA	2011
39	MIR and HARD X-RAY luminosities, silicate features, and SFR in AGN	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Juárez Y. Maiolino R. et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2011
40	Comments on "infrared photometry of V1057 Cyg" by Mendoza (1971)	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2011

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

41	Correlations between radio emission of the parsec-scale jet and optical nuclear emission of host AGN	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Torrealba J. Arshakian T.G. et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2011
42	Radio-optical scrutiny of compact AGN: correlations between properties of pc-scale jets and optical nuclear emission	J. Torrealba IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Arshakian, T. G. et al.	ASTRONOMY & ASTROPHYSICS	2010
43	Astroclimate at San Pedro mártir - I. Seeing statistics between 2004 and 2008 from the thirty meter telescope site-testing data*	LEONARDO JAVIER SANCHEZ PENICHE IRENE ANTONIA CRUZ GONZALEZ ESPINOSA JUAN MANUEL ECHEVARRIA ROMAN et al.	Iau Symposium Proceedings Series	2009
44	Density effect on multiwavelength luminosities on star-formation regions in NGC 3184 and NGC 3938	A. Caldu Primo IRENE ANTONIA CRUZ GONZALEZ ESPINOSA CHRISTOPHE ROGER JACQUES MORISSET	ASTRONOMY & ASTROPHYSICS	2009
45	Induced activity in mixed-morphology galaxy pairs	JOSE DE JESUS GONZALEZ GONZALEZ YAIR EMMANUEL KRONGOLD HERRERA HECTOR MANUEL HERNANDEZ TOLEDO et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2008
46	Revista Mexicana de Astronomía y Astrofísica: Serie de Conferencias: Preface	ERIKA MARIA BENITEZ LIZAOLA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA YAIR EMMANUEL KRONGOLD HERRERA	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2008
47	Testing the connections in the bh-disk-jet system	CLAUDIA JANET AMPARO TORREALBA GARCIA VAHRAM CHAVUSHYAN IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2008
48	Massive star formation in two spiral galaxies: NGC 3938 and NGC 3184; multiwavelength analysis	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Caldú-Primo A.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2008

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

49	Black hole mass estimates in nearby AGN from host-bulge properties	ERIKA MARIA BENITEZ LIZAOLA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA VAHRAM CHAVUSHYAN et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2008
50	Site testing at San Pedro Mártir	MAURICIO MANUEL TAPIA IBARGUENGOITIA DAVID SALOME HIRIART GARCIA MICHAEL GERARD RICHER et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2007
51	Surface layer seeing at San Pedro Mártir revisited	LEONARDO JAVIER SANCHEZ PENICHE REMY FERNAND AVILA FOUCAT IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2007
52	Revista Mexicana de Astronomía y Astrofísica: Preface	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA JUAN MANUEL ECHEVARRIA ROMAN DAVID SALOME HIRIART GARCIA	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2007
53	San Pedro Mártir: Characteristics of the site for optical and infrared observations	MAURICIO MANUEL TAPIA IBARGUENGOITIA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA REMY FERNAND AVILA FOUCAT	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2007
54	LYa emitters as tracers of proto-clusters of galaxies at high-z: Rlqsos and rqqso environment	ERIKA MARIA BENITEZ LIZAOLA YAIR EMMANUEL KRONGOLD HERRERA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2007
55	H2 velocity structure in the molecular outflow DR 211	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA LUIS SALAS CASALES DAVID SALOME HIRIART GARCIA	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA	2007

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

56	Hydrodynamic radial polishing tool: HyDRa	ERIKA SOHN LOPEZ FORMENT ESTEBAN ANTOLIN LUNA AGUILAR LUIS SALAS CASALES et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2006
57	CATAVIÑA: New infrared camera for OAN-SPM	ARTURO ISMAEL IRIARTE VALVERDE IRENE ANTONIA CRUZ GONZALEZ ESPINOSA LUIS ARTEMIO MARTINEZ VAZQUEZ et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2006
58	San Pedro Mártir mid-infrared photometric system	LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA MAURICIO MANUEL TAPIA IBARGUENGOITIA	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA	2006
59	New results in hydrodynamic radial polishing using HyDRa	ERIKA SOHN LOPEZ FORMENT ESTEBAN ANTOLIN LUNA AGUILAR LUIS SALAS CASALES et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2005
60	HyDRa: A novel hydrodynamic polishing tool for high quality optical surfaces; Technical Digest	ERIKA SOHN LOPEZ FORMENT ESTEBAN ANTOLIN LUNA AGUILAR LUIS SALAS CASALES et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2005
61	New perspectives in hydrodynamic radial polishing techniques for optical surfaces	ERIKA SOHN LOPEZ FORMENT ESTEBAN ANTOLIN LUNA AGUILAR LUIS SALAS CASALES et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

62	Surface roughness results using a hydrodynamic polishing tool (HyDra)	JUAN MANUEL NUÑEZ ALFONSO ESTEBAN ANTOLIN LUNA AGUILAR LUIS SALAS CASALES et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
63	Ronchi test can detect piston by means of the defocusing term	ESTEBAN ANTOLIN LUNA AGUILAR LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	OPTICS EXPRESS	2004
64	The isolated interacting galaxy pair NGC 5426/27 (Arp 271)	ISAURA LUISA FUENTES CARRERA MARGARITA EUGENIA DEL SOCORRO ROSADO SOLIS IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	ASTRONOMY & ASTROPHYSICS	2004
65	San Pedro Mártir: Astronomical site evaluation	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA REMY FERNAND AVILA FOUCAT MAURICIO MANUEL TAPIA IBARGUENGOITIA et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
66	Lightweight off-axis 8m class telescope: A case study to ELT approximation	ERIKA SOHN LOPEZ FORMENT ESTEBAN ANTOLIN LUNA AGUILAR LUIS SALAS CASALES et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
67	Static and dynamic removal rates of a new hydrodynamic polishing tool	ALBERTO CORDERO DAVILA ESTEBAN ANTOLIN LUNA AGUILAR JUAN MANUEL NUÑEZ ALFONSO et al.	APPLIED OPTICS	2004
68	A multiwavelength study of narrow-line Seyfert 1 galaxies from the second byurakan survey	ERIKA MARIA BENITEZ LIZAOLA YAIR EMMANUEL KRONGOLD HERRERA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	ASTROPHYSICAL JOURNAL	2003
69	NGC 5953/54: BVRIHaJK photometry and [N II] Fabry-Perot interferometry: I. The data	HECTOR MANUEL HERNANDEZ TOLEDO ISAURA LUISA FUENTES CARRERA MARGARITA EUGENIA DEL SOCORRO ROSADO SOLIS et al.	ASTRONOMY & ASTROPHYSICS	2003

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

70	Workshop summary	REMY FERNAND AVILA FOUCAT IRENE ANTONIA CRUZ GONZALEZ ESPINOSA MAURICIO MANUEL TAPIA IBARGUENGOITIA	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2003
71	Sequential star formation at the periphery of the H II regions Sh 217 and Sh 219	LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Deharveng L. et al.	ASTRONOMY & ASTROPHYSICS	2003
72	The classical ronchi test for piston detection	ESTEBAN ANTOLIN LUNA AGUILAR LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2002
73	TIM: Mexican optical-infrared telescope for the OAN/SPM	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2002
74	A dual infrared camera for near and mid infrared observations	LUIS SALAS CASALES LEONEL GUTIERREZ ALBORES MAURICIO MANUEL TAPIA IBARGUENGOITIA et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2002
75	Flux-velocity relation for H2 outflows	LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA	ASTROPHYSICAL JOURNAL	2002
76	Polishing TIM mirror segments with HyDra	ALBERTO CORDERO DAVILA ESTEBAN ANTOLIN LUNA AGUILAR JORGE ENRIQUE VALDEZ HERNANDEZ et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2002
77	Kinematics of the molecular hydrogen from the planetary nebula NGC 2346	MARGARITA EUGENIA DEL SOCORRO ROSADO SOLIS LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	ASTRONOMICAL JOURNAL	2001

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

78	Noise reduction in BIB type detectors	ERIKA SOHN LOPEZ FORMENT ELFEGO GUILLERMO RUIZ SCHNEIDER LUIS SALAS CASALES et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2001
79	Hydrostatic shoe bearing system for the TIM	ELFEGO GUILLERMO RUIZ SCHNEIDER ERIKA SOHN LOPEZ FORMENT ALEJANDRO FARAH SIMON et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2000
80	Velocity structure in the curved jet S187:SCP 1 (H2)	LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA MARGARITA EUGENIA DEL SOCORRO ROSADO SOLIS	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA	2000
81	Search for optical microvariability in a large sample of Seyfert I galaxies	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA LUIS SALAS CASALES Petrucci P.O. et al.	ASTRONOMY & ASTROPHYSICS	1999
82	Magnetospheric accretion onto the T Tauri star AA Tauri: I. Constraints from multisite spectrophotometric monitoring	RAFAEL CARLOS PATRICIO COSTERO Y GRACIA IRENE ANTONIA CRUZ GONZALEZ ESPINOSA LUIS SALAS CASALES et al.	ASTRONOMY & ASTROPHYSICS	1999
83	Destruction of the environment of the BN-KL nebula	LUIS SALAS CASALES MARGARITA EUGENIA DEL SOCORRO ROSADO SOLIS IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	ASTROPHYSICAL JOURNAL	1999
84	Weak radio galaxies. II. Narrow-band optical imaging and physical conditions	RENE CARRILLO MORENO IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Guichard J.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA	1999
85	S187:SCP 1 (H2): A curved molecular hydrogen outflow	LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Porras A.	ASTROPHYSICAL JOURNAL	1998
86	Mexican infrared-optical new technology telescope TIM project	LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA ESTEBAN ANTOLIN LUNA AGUILAR et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1998

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87	TEQUILA: NIR camera/spectrograph based on a Rockwell 1024 X 1024 HgCdTe FPA	ELFEGO GUILLERMO RUIZ SCHNEIDER ERIKA SOHN LOPEZ FORMENT IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1998
88	PUMILA: A near-infrared spectrograph for the kinematic study of the interstellar medium	MARGARITA EUGENIA DEL SOCORRO ROSADO SOLIS IRENE ANTONIA CRUZ GONZALEZ ESPINOSA LUIS SALAS CASALES et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1998
89	Mid-infrared camera/spectrograph for OAN/SPM	ERIKA SOHN LOPEZ FORMENT ELFEGO GUILLERMO RUIZ SCHNEIDER IRENE ANTONIA CRUZ GONZALEZ ESPINOSA et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1998
90	Mirror cell and active support system of the Mexican infrared-optical telescope (TIM)	ERIKA SOHN LOPEZ FORMENT IRENE ANTONIA CRUZ GONZALEZ ESPINOSA LUIS SALAS CASALES et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1998
91	AFGL 4029: A cluster of massive young stars	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA LUIS SALAS CASALES Deharveng L. et al.	ASTRONOMY & ASTROPHYSICS	1997
92	Infrared imaging of interacting pairs	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Laurikainen E. Salo H. et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	1997
93	Discovery of jets and HH-like objects near the S255 IR complex	LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA STANLEY EUGENE KURTZ SMITH et al.	ASTROPHYSICAL JOURNAL	1997
94	Relativistic electron energy spectra of active galactic nuclei in the thin synchrotron limit. I. The method	LUIS SALAS CASALES IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Carrasco L.	ASTROPHYSICAL JOURNAL	1995

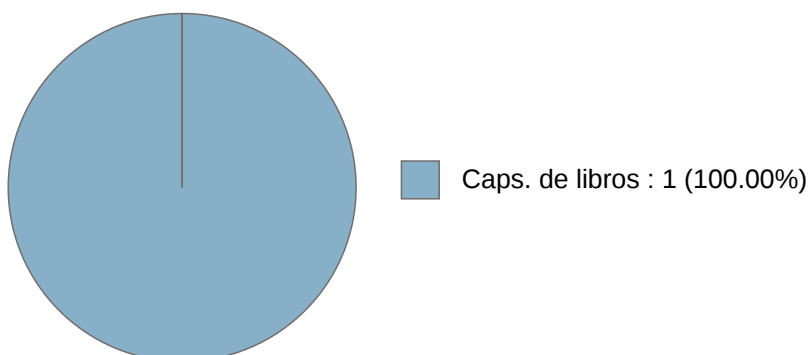
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95	The hot spot in DR Tauri	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA LUIS SALAS CASALES Kenyon S.J. et al.	ASTRONOMICAL JOURNAL	1994
96	Mepsicron spectrophotometry of seyfert galaxies. I. Spectral atlas	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA GIANFRANCO BISIACCHI GIRALDI Carrasco L. et al.	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	1994
97	A study of the stellar population in the Lynds 1641 dark cloud. IV. The Einstein X-ray sources	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Strom K.M. Strom S.E. et al.	ASTROPHYSICAL JOURNAL	1990
98	Infrared companions to pre-main sequence stars	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Zinnecker H. Chelli A. et al.	ASTROPHYSICS AND SPACE SCIENCE	1988
99	Periodicity in the BL Lac object OJ287	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA Carrasco L. Dultzin-Hacyan D.	Nature	1985

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

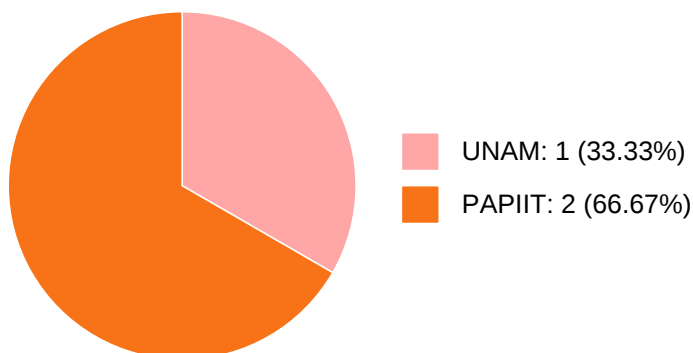


#	Título	Autores	Alcance	Año	ISBN
1	A new method to estimate the temporal fraction of cloud cover	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA LEONARDO JAVIER SANCHEZ PENICHE REMY FERNAND AVILA FOUCAT	Capítulo de un Libro	2012	9789535103844

IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Cámara Ir Cataviña (consolidación).	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA	Presupuesto de la UNAM asignado a la Dependencia	01-01-2016	31-12-2020
2	Gas molecular en núcleos activos de galaxias oscurecidos (CT AGN)	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA	Recursos PAPIIT	01-01-2017	31-12-2019
3	Impacto de la actividad nuclear en la evolución de galaxias	IRENE ANTONIA CRUZ GONZALEZ ESPINOSA	Recursos PAPIIT	01-01-2023	31-12-2025



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Coordinación de Planeación, Evaluación y
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Reporte individual



IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

PARTICIPACIÓN EN TESIS

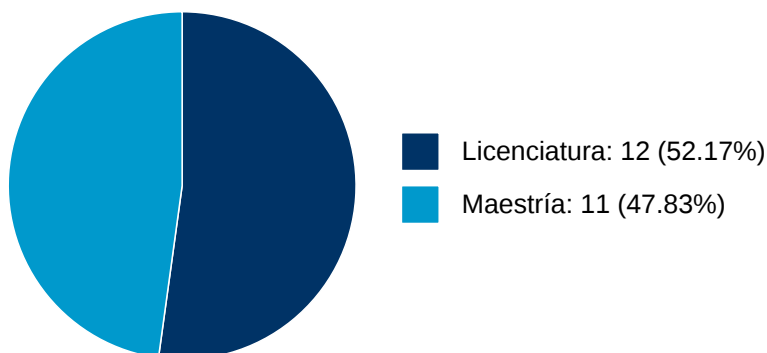
No se encuentran registros en la base de datos de TESIUNAM asociados a:

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	SEMINARIO DE GRADUACIÓN	Instituto de Astronomía	1	2024-2
2	Maestría	SEMINARIO DE INVESTIGACIÓN I DE LOS CAMPOS DE CONOCIMIENTO TEÓRICA, OBSERVACIONAL, CAMPOS PART	Instituto de Astronomía	1	2024-2
3	Maestría	SEMINARIO DE INVESTIGACIÓN I DE LOS CAMPOS DE CONOCIMIENTO TEÓRICA, OBSERVACIONAL, CAMPOS PART	Instituto de Astronomía	1	2024-2
4	Maestría	SEMINARIO DE INVESTIGACIÓN I DE LOS CAMPOS DE CONOCIMIENTO TEÓRICA, OBSERVACIONAL, CAMPOS PART	Instituto de Astronomía	1	2024-2
5	Maestría	SEMINARIO DE GRADUACIÓN	Instituto de Astronomía	1	2024-1
6	Licenciatura	ASTROFISICA EXTRAGALACT. COSMOLOGIA	Facultad de Ciencias	12	2023-2
7	Maestría	TEMAS SELECTOS DE ÓPTICA EN LA INSTRUMENTACIÓN ASTRONÓMICA DEL CAMPO DE CONOCIMIENTO INST. OPTICA Y POLARIMETRIA PARA LA INSTRUMENTACIÓN ASTRONOMICA	Instituto de Astronomía	1	2023-1
8	Licenciatura	ASTROFISICA EXTRAGALACT. COSMOLOGIA	Facultad de Ciencias	11	2022-2
9	Licenciatura	ASTROFISICA EXTRAGALACT. COSMOLOGIA	Facultad de Ciencias	9	2020-2
10	Licenciatura	ASTROFISICA EXTRAGALACT. COSMOLOGIA	Facultad de Ciencias	17	2019-2
11	Licenciatura	ASTROFISICA EXTRAGALACT. COSMOLOGIA	Facultad de Ciencias	15	2018-2
12	Licenciatura	ASTROFISICA EXTRAGALACT. COSMOLOGIA	Facultad de Ciencias	17	2017-2
13	Licenciatura	ASTROFISICA EXTRAGALACT. COSMOLOGIA	Facultad de Ciencias	14	2015-2

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14	Licenciatura	ASTROFISICA EXTRAGALACT. COSMOLOGIA	Facultad de Ciencias	4	2014-1
15	Licenciatura	ASTROFISICA EXTRAGALACT. COSMOLOGIA	Facultad de Ciencias	7	2013-1
16	Maestría	SEMINARIO DE GRADUACION	Instituto de Astronomía	1	2012-2
17	Maestría	TEMAS SELECTOS DE ASTROFISICA	Instituto de Astronomía	1	2012-2
18	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Astronomía	1	2011-1
19	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Astronomía	1	2010-2
20	Licenciatura	ASTROFISICA EXTRAGALACT. COSMOLOGIA	Facultad de Ciencias	3	2010-2
21	Licenciatura	ESTRUC.DINAMICA EVOLUC.DE GALAXIA	Facultad de Ciencias	6	2009-2
22	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Astronomía	1	2009-1
23	Licenciatura	ASTROFISICA EXTRAGALACT. COSMOLOGIA	Facultad de Ciencias	11	2008-2



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Reporte individual



IRENE ANTONIA CRUZ GONZALEZ ESPINOSA

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