



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



YURIY RUBO

Datos Generales

Nombre: YURIY RUBO

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 27 años

Nombramientos

Vigente: INVESTIGADOR TITULAR C TC Definitivo
Instituto de Energías Renovables
Desde 01-03-2013

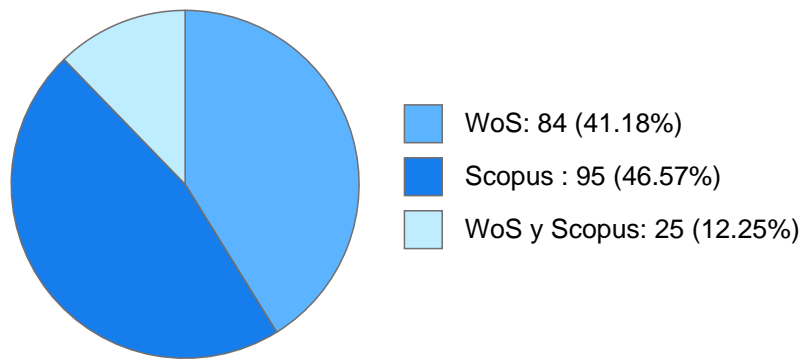
Estímulos, programas, premios y reconocimientos

SNI III 2024 - VIGENTE
SNI II 2020 - 2023
SNI III 2015 - 2019
SNI II - 2014
PRIDE C - 2024

YURIY RUBO

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Sixty Years of Research on Polaritons: A Scientometric Review	RICARDO RUIZ SANCHEZ RICARDO ARENCIBIA JORGE JOSE LUIS JIMENEZ ANDRADE et al.	Engineering Reports	2025
2	Polarization dynamics of trapped polariton condensates with PT symmetry	ISAAC JESAN VELAZQUEZ RESENDIZ YURIY RUBO	PHYSICAL REVIEW B	2024
3	Polariton spin Hall effect in a Rashba-Dresselhaus regime at room temperature	YURIY RUBO Liang J. Wen W. et al.	NATURE PHOTONICS	2024
4	Quantum theory of polariton weak lasing and polarization bifurcations	YURIY RUBO Xu H. Liew T.C.H.	PHYSICAL REVIEW B	2024
5	Trembling Motion of Exciton Polaritons Close to the Rashba-Dresselhaus Regime	YURIY RUBO Wen W. Liang J. et al.	PHYSICAL REVIEW LETTERS	2024
6	First-principles study of interstitial Li effects on the electronic, structural and diffusion properties of highly boron-doped porous silicon	MARIA DEL ROCIO NAVA LARA JESUS ANTONIO DEL RIO PORTILLA YURIY RUBO et al.	Journal of Energy Storage	2024
7	Spin-orbital effect on the polariton state in traps	YURIY RUBO	PHYSICAL REVIEW B	2022
8	Engineering spatial coherence in lattices of polariton condensates	YURIY RUBO J. D. Topfer I Chatzopoulos et al.	OPTICA	2021

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9	Pseudoconservative dynamics of coupled polariton condensates	YURIY RUBO I Chestnov A. Nalitov et al.	Physical Review Research	2021
10	Emergence of microfrequency comb via limit cycles in dissipatively coupled condensates	YURIY RUBO Kim S. Liew T.C.H. et al.	PHYSICAL REVIEW B	2020
11	Partial quantum revivals of localized condensates in distorted lattices	YURIY RUBO Ko D. Sun M. et al.	OPTICS LETTERS	2020
12	Autonomous chaos of exciton-polariton condensates	RICARDO RUIZ SANCHEZ RAUL MAURICIO RECHTMAN SCHRENZEL YURIY RUBO	PHYSICAL REVIEW B	2020
13	Long Josephson junctions with exciton-polariton condensates	YURIY RUBO A. Munoz Mateo L. A. Toikka	PHYSICAL REVIEW B	2020
14	Optically trapped polariton condensates as semiclassical time crystals	YURIY RUBO Nalitov A.V. Sigurdsson H. et al.	PHYSICAL REVIEW A	2019
15	Observation of inversion, hysteresis, and collapse of spin in optically trapped polariton condensates	YURIY RUBO Yago del Valle-Inclan Redondo Helgi Sigurdsson et al.	PHYSICAL REVIEW B	2019
16	Pseudodrag of a polariton superfluid	YURIY RUBO Igor Y. Chestnov V Kavokin	PHYSICAL REVIEW B	2019
17	Phase selection and intermittency of exciton-polariton condensates in one-dimensional periodic structures	YURIY RUBO Yoon S. Sun M. et al.	PHYSICAL REVIEW A	2019
18	Polariton polarization rectifier	YURIY RUBO Evgeny S. Sedov Alexey V. Kavokin	Light: Science And Applications	2019
19	Quantum exciton-polariton networks through inverse four-wave mixing	YURIY RUBO T. C. H. Liew	PHYSICAL REVIEW B	2018
20	Zitterbewegung of exciton-polaritons	YURIY RUBO E. S. Sedov V Kavokin	PHYSICAL REVIEW B	2018
21	Stochastic spin flips in polariton condensates: nonlinear tuning from GHz to sub-Hz	YURIY RUBO Yago del Valle-Inclan Redondo Hamid Ohadi et al.	NEW JOURNAL OF PHYSICS	2018
22	Stochastic spin flips in polariton condensates: nonlinear tuning from GHz to sub-Hz (vol 20, 075008, 2018)	YURIY RUBO Yago del Valle-Inclan Redondo Hamid Ohadi et al.	NEW JOURNAL OF PHYSICS	2018
23	Excitation of localized condensates in the flat band of the exciton-polariton Lieb lattice	YURIY RUBO Sun M. Savenko I.G. et al.	PHYSICAL REVIEW B	2018
24	Spin Order and Phase Transitions in Chains of Polariton Condensates	YURIY RUBO Ohadi, H. Ramsay, A. J. et al.	PHYSICAL REVIEW LETTERS	2017
25	Spontaneous Polariton Currents in Periodic Lateral Chains	YURIY RUBO Nalitov, A. V. Liew, T. C. H. et al.	PHYSICAL REVIEW LETTERS	2017

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26	Driven-dissipative spin chain model based on exciton-polariton condensates	YURIY RUBO Sigurdsson, H. Ramsay, A. J. et al.	PHYSICAL REVIEW B	2017
27	Tunable Magnetic Alignment between Trapped Exciton-Polariton Condensates	YURIY RUBO Ohadi, H. Redondo, Y. del Valle-Inclan et al.	PHYSICAL REVIEW LETTERS	2016
28	Permanent Rabi oscillations in coupled exciton-photon systems with PT-symmetry	YURIY RUBO Chestnov, Igor Yu Demirchyan, Sevak S. et al.	SCIENTIFIC REPORTS	2016
29	Quantum statistics of bosonic cascades	YURIY RUBO Liew, T. C. H. Sheremet, A. S. et al.	NEW JOURNAL OF PHYSICS	2016
30	Second-order correlations in an exciton-polariton Rabi oscillator	YURIY RUBO Sheremet A. Kavokin A.	PHYSICAL REVIEW B	2016
31	A sub-femtojoule electrical spin-switch based on optically trapped polariton condensates	YURIY RUBO Dreismann, Alexander Ohadi, Hamid et al.	NATURE MATERIALS	2016
32	Nontrivial Phase Coupling in Polariton Multiplets	YURIY RUBO Ohadi, H. Gregory, R. L. et al.	PHYSICAL REVIEW X	2016
33	Twist of generalized skyrmions and spin vortices in a polariton superfluid	YURIY RUBO Donati, Stefano Dominici, Lorenzo et al.	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	2016
34	Spontaneous spin bifurcations and ferromagnetic phase transitions in a spinor exciton-polariton condensate	YURIY RUBO Ohadi H. Dreismann A. et al.	PHYSICAL REVIEW X	2015
35	Weak lasing in one-dimensional polariton superlattices	YURIY RUBO Zhang, Long Xie, Wei et al.	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	2015
36	Frequency combs with weakly lasing exciton-polariton condensates	YURIY RUBO Rayanov, K. Altshuler, B. L. et al.	PHYSICAL REVIEW LETTERS	2015
37	Exciton-photon correlations in bosonic condensates of exciton-polaritons	YURIY RUBO Kavokin, Alexey V. Sheremet, Alexandra S. et al.	SCIENTIFIC REPORTS	2015
38	Mirrorless lasing from light emitters in percolating clusters	Gennadiy Burlak YURIY RUBO	PHYSICAL REVIEW A	2015
39	Warping and interactions of vortices in exciton-polariton condensates	MILLER TOLEDO SOLANO YURIY RUBO Mora-Ramos, M. E. et al.	PHYSICAL REVIEW B	2014

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40	Exciton-polariton oscillations in real space	YURIY RUBO Liew, T. C. H. Kavokin, A. V.	PHYSICAL REVIEW B	2014
41	Magnetic properties of graphene quantum dots	TANIA ESPINOSA ORTEGA YURIY RUBO Luk'yanchuk, I. A.	PHYSICAL REVIEW B	2013
42	Hyperbolic spin vortices and textures in exciton-polariton condensates	YURIY RUBO Manni, F. Leger, Y. et al.	NATURE COMMUNICATIONS	2013
43	Mean-Field Description of Multicomponent Exciton-Polariton Superfluids	YURIY RUBO	Springer Series In Solid-State Sciences	2013
44	Radiative coupling and weak lasing of exciton-polariton condensates	YURIY RUBO Aleiner, I. L. Altshuler, B. L.	PHYSICAL REVIEW B	2012
45	Spin-orbit coupling and the topology of gases of spin-degenerate cold excitons in photoexcited GaAs-AlGaAs quantum wells	T. C. H. Liew YURIY RUBO Matuszewski, M. et al.	PHYSICAL REVIEW B	2012
46	Papers submitted to the 10th International Conference on the Physics of Light-Matter Coupling in Nanostructures, PLMCN 2010 (Cuernavaca, Mexico)	YURIY RUBO Kavokin, Alexey del Valle, Elena et al.	SUPERLATTICES AND MICROSTRUCTURES	2011
47	Density of states in randomly shaped graphene quantum dots	TANIA ESPINOSA ORTEGA YURIY RUBO Luk'yanchuk, Igor A.	SUPERLATTICES AND MICROSTRUCTURES	2011
48	Half-quantum vortices in exciton-polariton condensates in applied magnetic field	MILLER TOLEDO SOLANO YURIY RUBO	SUPERLATTICES AND MICROSTRUCTURES	2011
49	Increase of the chemical potential and phase transitions in four-component exciton condensates subject to magnetic fields	YURIY RUBO Kavokin, A. V.	PHYSICAL REVIEW B	2011
50	Polariton polarization-sensitive phenomena in planar semiconductor microcavities	YURIY RUBO Shelykh, I. A. Kavokin, A. V. et al.	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	2010
51	Pinning and Depinning of the Polarization of Exciton-Polariton Condensates at Room Temperature	YURIY RUBO Levrat, J. Butte, R. et al.	PHYSICAL REVIEW LETTERS	2010
52	Josephson coupling of Bose-Einstein condensates of exciton-polaritons in semiconductor microcavities	YURIY RUBO Read, D. Kavokin, A. V.	PHYSICAL REVIEW B	2010

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53	Comment on "Topological stability of the half-vortices in spinor exciton-polariton condensates"	MILLER TOLEDO SOLANO YURIY RUBO	PHYSICAL REVIEW B	2010
54	Vortices in exciton-polariton condensates with polarization splitting	MILLER TOLEDO SOLANO YURIY RUBO	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2010
55	Signature of the microcavity exciton-polariton relaxation mechanism in the polarization of emitted light	YURIY RUBO Roumpos, Georgios Lai, Chih-Wei et al.	PHYSICAL REVIEW B	2009
56	Observation of Half-Quantum Vortices in an Exciton-Polariton Condensate	YURIY RUBO Lagoudakis, K. G. Ostafnick, T. et al.	Science	2009
57	Stochastic polarization formation in exciton-polariton Bose-Einstein condensates	YURIY RUBO Read, D. Liew, T. C. H. et al.	PHYSICAL REVIEW B	2009
58	Suppression of Zeeman splitting and polarization steps in localized exciton-polariton condensates	YURIY RUBO Liew, T. C. H. Shelykh, I. A. et al.	PHYSICAL REVIEW B	2008
59	Generation and Dynamics of Vortex Lattices in Coherent Exciton-Polariton Fields	YURIY RUBO Liew, T. C. H. Kavokin, A. V.	PHYSICAL REVIEW LETTERS	2008
60	Build up and pinning of linear polarization in the Bose condensates of exciton polaritons	YURIY RUBO Kasprzak J. André R. et al.	PHYSICAL REVIEW B	2007
61	Polarization beats in ballistic propagation of exciton-polaritons in microcavities	YURIY RUBO Langbein W. Shelykh I. et al.	PHYSICAL REVIEW B	2007
62	Renormalized dispersion of elementary excitations in spinor polariton condensates	YURIY RUBO Shelykh I.A. Kavokin A.V.	SUPERLATTICES AND MICROSTRUCTURES	2007
63	Polarization multistability of cavity polaritons	YURIY RUBO Gippius N.A. Shelykh I.A. et al.	PHYSICAL REVIEW LETTERS	2007
64	Half vortices in exciton polariton condensates	YURIY RUBO	PHYSICAL REVIEW LETTERS	2007
65	Polarization and propagation of polariton condensates	YURIY RUBO Shelykh I.A. Malpuech G. et al.	PHYSICAL REVIEW LETTERS	2006
66	Suppression of superfluidity of exciton-polaritons by magnetic field	YURIY RUBO Kavokin A.V. Shelykh I.A.	PHYSICS LETTERS A	2006
67	Luminescent photonics with porous silicon nanostructures	JULIA TAGUEÑA PARGA JESUS ANTONIO DEL RIO PORTILLA YURIY RUBO et al.	AIP Conference Proceedings	2005

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68	Photon losses in porous silicon microcavities	YURIY RUBO JESUS ANTONIO DEL RIO PORTILLA Solano M.T.	PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE	2005
69	Rayleigh scattering in multilayered structures of porous silicon	YURIY RUBO JESUS ANTONIO DEL RIO PORTILLA MA. CONCEPCION ARENAS ARROCENA et al.	Physica Status Solidi C: Conferences	2005
70	Kinetics of the polariton condensate formation in a microcavity	YURIY RUBO	PHYS STATUS SOLIDI A	2004
71	Dissipative quantum theory of polariton lasers	YURIY RUBO Laussy F.P. Malpuech G. et al.	Physica Status Solidi C: Conferences	2003
72	Polariton laser: Thermodynamics and quantum kinetic theory	YURIY RUBO Malpuech G. Laussy F.P. et al.	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	2003
73	Effect of the electric field on the luminescence of self-supporting porous silicon	YURIY RUBO JESUS ANTONIO DEL RIO PORTILLA Agarwal V.	PHYS STATUS SOLIDI A	2003
74	Dynamical Theory of Polariton Amplifiers	YURIY RUBO Laussy F.P. Malpuech G. et al.	PHYSICAL REVIEW LETTERS	2003
75	Classical Wigner crystals move on	YURIY RUBO	PHYSICS WORLD	2002
76	Quantum effects on the dielectric function of porous silicon	CHUMIN WANG CHEN YURIY RUBO JULIA TAGUEÑA PARGA et al.	Materials Research Society Symposium Proceedings	2001
77	Nonlinear ac response of an unpinned two-dimensional Wigner crystal	YURIY RUBO	PHYSICAL REVIEW B	2001
78	Dynamics of a 2D Wigner solid in a magnetic field: The plastic limit	YURIY RUBO Lea M.J.	PHYSICA B-CONDENSED MATTER	2000
79	Optical absorption in porous silicon	CHUMIN WANG CHEN YURIY RUBO MARCELA REGINA BELTRAN SANCHEZ et al.	JOURNAL OF POROUS MATERIALS	2000
80	Non-linear transport and a non-equilibrium phase transition in 2D electrons on liquid helium	YURIY RUBO Djerfi K. Dotsenko V. et al.	PHYSICA B-CONDENSED MATTER	2000

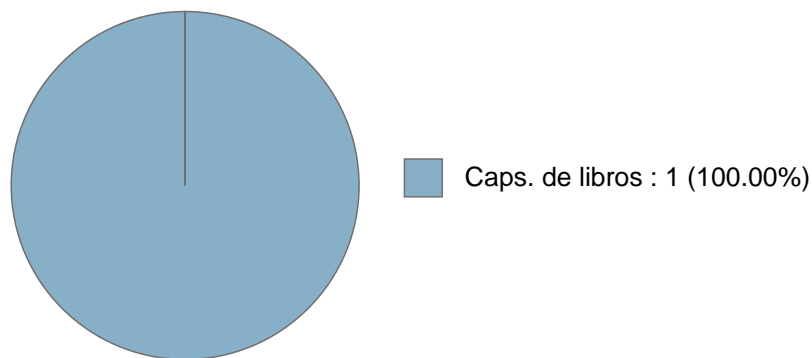
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81	Computation of the porous silicon dielectric function in the supercell model and comparison with experiment	JULIA TAGUEÑA PARGA YURIY RUBO MARCELA REGINA BELTRAN SANCHEZ et al.	Materials Research Society Symposium Proceedings	2000
82	Tight-binding description of disordered nanostructures: an application to porous silicon	JULIA TAGUEÑA PARGA YURIY RUBO MARCELA REGINA BELTRAN SANCHEZ et al.	APPLIED SURFACE SCIENCE	1999
83	Magneto-shear modes and ac dissipation in a two-dimensional Wigner crystal	YURIY RUBO Lea M.	PHYSICAL REVIEW B	1998
84	Magnetic-field-induced resonant coupling between- and-exciton states	YURIY RUBO El Ouazzani A. Coquillat D. et al.	PHYSICAL REVIEW B	1997
85	Strain broadening of the magnetization steps in diluted magnetic semiconductors	YURIY RUBO Thorpe M. Mousseau N.	PHYSICAL REVIEW B	1997
86	Bragg-Cherenkov scattering and nonlinear conductivity of a two-dimensional wigner crystal	YURIY RUBO Dykman M.I.	PHYSICAL REVIEW LETTERS	1997
87	Anisotropy of a hole magnetic polaron in a semimagnetic semiconductor	YURIY RUBO Linnik T.L. Sheka V.I.	JETP LETTERS	1996
88	Magneto-optical study of CdCoTe	YURIY RUBO Coquillat D. El Ouazzani A. et al.	Materials Science Forum	1995
89	Temperature and magnetic field dependence of the free and bound exciton luminescence in CdTe/CdMnTe quantum well	YURIY RUBO Lascaray J.P. Kavokin A. et al.	Materials Science Forum	1995
90	Suppression of the Auger recombination due to spin polarization of excess carriers and Mn ²⁺ ions in the semimagnetic semiconductor Cd _{0.95} Mn _{0.05} S	YURIY RUBO Nawrocki M. Lascaray J.P. et al.	PHYSICAL REVIEW B	1995
91	The energy spectrum and g-factor of the bound magnetic polaron in a cubic Fe-based diluted magnetic semiconductor	YURIY RUBO	JOURNAL OF PHYSICS-COND ENSED MATTER	1994
92	Document processing and representation system	YURIY RUBO Liss B.L. Treskova S.P.	Avtometriya	1993
93	Electrons cards of patients	YURIY RUBO Liss B.L. Treskova S.P. et al.	Avtometriya	1993
94	Exchange-induced optical spin transitions in semimagnetic semiconductors	YURIY RUBO Khazan L.S. Sheka V.I.	PHYSICAL REVIEW B	1993
95	Anisotropy of two-photon absorption in cubic direct-band-gap semiconductors	YURIY RUBO Dykman M.I.	PHYSICAL REVIEW B	1992

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

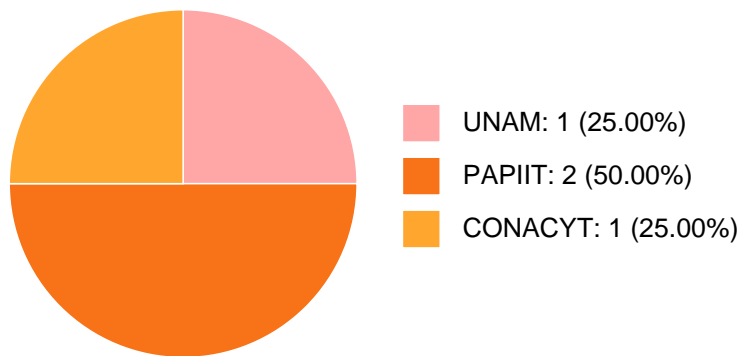


#	Título	Autores	Alcance	Año	ISBN
1	Mean-field description of multicomponent exciton-polariton superfluids	YURIY RUBO	Capítulo de un Libro	2013	9783642375699

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

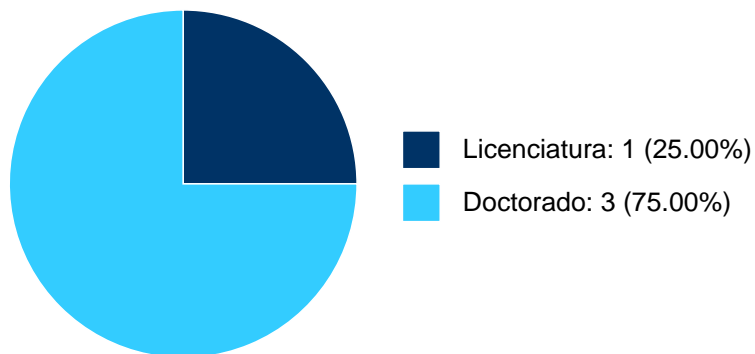


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Teoría del acoplamiento de la luz con materia en nanoestructuras.	YURIY RUBO	Presupuesto de la UNAM asignado a la Dependencia	01-01-2016	31-12-2021
2	Rompimiento de simetría en condensados de bosones y láser polaritónico	YURIY RUBO	Recursos CONACYT	01-01-2016	21-08-2019
3	Condensados polaritónicos para simulación y computación cuántica.	YURIY RUBO	Recursos PAPIIT	01-01-2020	31-12-2022
4	Teoría cuántica de la condensación polaritónica y sus aplicaciones	YURIY RUBO	Recursos PAPIIT	01-01-2024	31-12-2026

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

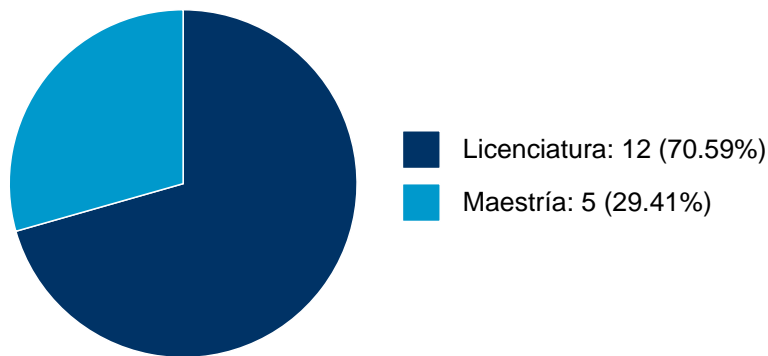


#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Dinámica conservativa de un dímero polaritónico con simetría paridad-tiempo	Tesis de Licenciatura	YURIY RUBO,	Velázquez Resendiz, Isaac Jesan,	Instituto de Energías Renovables,	2023
2	Dinámica de un cubit polaritónico con bajo consumo de energía	Tesis de Doctorado	YURIY RUBO,	Ruiz Sánchez, Ricardo,	Instituto de Energías Renovables,	2020
3	Diamagnetismo de puntos cuánticos de grafeno	Tesis de Doctorado	YURIY RUBO,	Espinosa Ortega, Tania,	Centro de Investigación en Energía,	2012
4	Vórtices en condensados polaritónicos en microcavidades semiconductoras	Tesis de Doctorado	YURIY RUBO,	Toledo Solano, Miller,	Centro de Investigación en Energía,	2011

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	ELECTRICIDAD Y MAGNETISMO	Centro de Investigación en Energía	16	2024-2
2	Maestría	FUNDAMENTOS DE ÓPTICA (ÓPTICA Y FOTÓNICA)	Centro de Investigación en Energía	1	2024-2
3	Licenciatura	CALCULO VECTORIAL	Centro de Investigación en Energía	16	2024-1
4	Licenciatura	ELECTRICIDAD Y MAGNETISMO	Centro de Investigación en Energía	15	2023-2
5	Maestría	INTRODUCCIÓN A LA ÓPTICA CUÁNTICA (FÍSICA CUÁNTICA, ATÓMICA Y MOLECULAR)	Instituto de Física	3	2023-1
6	Maestría	INTRODUCCIÓN A LA ÓPTICA CUÁNTICA (ÓPTICA Y FOTÓNICA)	Instituto de Física	3	2023-1
7	Licenciatura	ELECTRICIDAD Y MAGNETISMO	Centro de Investigación en Energía	19	2022-2
8	Licenciatura	TEMAS SELEC. TECNOL.ENERG.RENOVABL.	Centro de Investigación en Energía	1	2022-1
9	Licenciatura	ELECTRICIDAD Y MAGNETISMO	Centro de Investigación en Energía	25	2021-2
10	Licenciatura	ELECTRICIDAD Y MAGNETISMO	Centro de Investigación en Energía	28	2020-2
11	Maestría	TEMAS SELECTOS DE FUENTES RENOVABLES OPTICA MODERNA DE NANOESTRUCTURAS	Instituto de Energías Renovables	2	2020-1



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12	Licenciatura	ELECTRICIDAD Y MAGNETISMO	Centro de Investigación en Energía	24	2019-2
13	Maestría	TEMAS SELECTOS DE FUENTES RENOVABLES NANOESTRUCTURAS Y MICROCAVIDADES	Instituto de Energías Renovables	1	2019-1
14	Licenciatura	ELECTRICIDAD Y MAGNETISMO-334434	Instituto de Energías Renovables	25	2016-2
15	Licenciatura	ELECTRICIDAD Y MAGNETISMO	Instituto de Energías Renovables	19	2015-2
16	Licenciatura	ELECTRICIDAD Y MAGNETISMO	Instituto de Energías Renovables	19	2014-2
17	Licenciatura	ELECTRICIDAD Y MAGNETISMO	Instituto de Energías Renovables	8	2013-2



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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