



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



PEDRO SALAS CASTILLO

Datos Generales

Nombre: PEDRO SALAS CASTILLO

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 22 años

Nombramientos

Vigente: INVESTIGADOR TITULAR C TC Definitivo
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Desde 16-04-2014

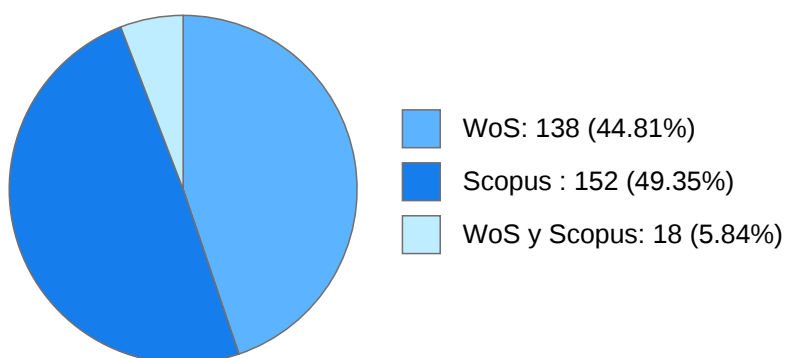
Estímulos, programas, premios y reconocimientos

SNI III 2014 - VIGENTE
SNI II 2010 - 2013
SNI I - 2009
PRIDE D 2021 - 2024
PRIDE C - 2021
PASPA Estancias Sabáticas 2016 - 2017

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Enhancing the evaporation rate of 3D solar evaporators by coating their surface with N-doped graphene and MnCoGe alloy compounds	JONATHAN ZAMORA MENDIETA PEDRO SALAS CASTILLO JORGE ROBERTO OLIVA UC et al.	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2025
2	Modulating the red-to-green emission ratio in NaYF ₄ :Yb ³⁺ ,Er ³⁺ upconverting nanoparticles by adjusting the reaction pH	PEDRO SALAS CASTILLO GONZALO RAMIREZ GARCIA Carreño-Vega O. et al.	CERAMICS INTERNATIONAL	2025
3	Rubber/BiOCl: Yb,Er composite for the enhanced degradation of methylene blue and Rhodamine B dyes under solar irradiation	PEDRO SALAS CASTILLO JORGE ROBERTO OLIVA UC Valadez-Renteria E. et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2025
4	The role of graphene oxide and graphene quantum dots synthesized from spent lithium-ion batteries for Highly efficient supercapacitors	JORGE ROBERTO OLIVA UC PEDRO SALAS CASTILLO Mendoza-Jiménez R. et al.	ELECTROCHIMICA ACTA	2025
5	Enhancing the blue and NIR emissions of NaBiF ₄ :Er ³⁺ ,Yb ³⁺ phosphors by co-doping with Mg ²⁺ or Mn ²⁺	PEDRO SALAS CASTILLO JORGE ROBERTO OLIVA UC Garcés L. et al.	OPTICAL MATERIALS	2024

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6	Emission color tuning and enhancement of the upconversion emission in NaBiF ₄ :Yb ³⁺ ,Er ³⁺ phosphors by controlling the Na/F ratio	JORGE ROBERTO OLIVA UC PEDRO SALAS CASTILLO Montes E. et al.	CERAMICS INTERNATIONAL	2024
7	Effect of Urea and Thiourea on the color emission of (YxBi _{1-x}) ₂ Zr ₂ O ₇ :Er ³⁺ ,Yb ³⁺ upconversion phosphors	JORGE ROBERTO OLIVA UC PEDRO SALAS CASTILLO Rosales M. et al.	OPTICAL MATERIALS	2024
8	Improved charge-transfer resonance in graphene oxide/ZrO ₂ substrates for plasmonic-free SERS determination of methyl parathion	PEDRO SALAS CASTILLO GONZALO RAMIREZ GARCIA Vargas-Zamarripa M. et al.	Chemosphere	2023
9	CNT/turanite/FeNdCo-alloy electrodes to enhance the capacitance of waterproof/eco-friendly supercapacitors	PEDRO SALAS CASTILLO Marco Balderas-Soto Edgar Giovanni Villabona-Leal et al.	NEW JOURNAL OF CHEMISTRY	2023
10	Unraveling the effect of low Cu ₂ O loading on P25 TiO ₂ and its self-reduction during methanol photoreforming	HERIBERTO PFEIFFER PEREA PEDRO SALAS CASTILLO Plascencia-Hernández F. et al.	INORGANIC CHEMISTRY COMMUNICATIONS	2023
11	Large-scale assembly and pattern transfer of SERS-active nanoparticles for application in drug monitoring of methotrexate in blood serum	PEDRO SALAS CASTILLO Panikar S.S. Cialla-May D. et al.	VIBRATIONAL SPECTROSCOPY	2023
12	Deep Eutectic Solvent-Enabled Plasmonic Nanocellulose Aerogel: On-Demand Three-Dimensional (3D) SERS Hotspot Based on Collapsing Mechanism	GONZALO RAMIREZ GARCIA MARIA ANTONIETA MONDRAGON SOSA PEDRO SALAS CASTILLO et al.	ANALYTICAL CHEMISTRY	2022
13	Elective surgery system strengthening: development, measurement, and validation of the surgical preparedness index across 1632 hospitals in 119 countries	MARIANO VICTOR BAUER EPHRUSSI LAURA MARIA GASQUE SILVA PEDRO SALAS CASTILLO et al.	Lancet	2022
14	Highly dispersible and fluorescent graphene-based materials obtained by underwater shock wave-induced oxidative cleavage	ACHIM MAX LOSKE MEHLING ANDRES DE LUNA BUGALLO PEDRO SALAS CASTILLO et al.	FlatChem	2022
15	Poly(allylamine)-copper(ii) coordination complex grafted on core@shell upconversion nanoparticles for ultrafast and sensitive determination of the phytohormone salicylic acid in plant extracts	PEDRO SALAS CASTILLO GONZALO RAMIREZ GARCIA Osvaldo Carreno-Vega et al.	DALTON TRANSACTIONS	2022

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16	Effect of reducing and oxidizing atmosphere on photoluminescence of undoped and Eu doped nanostructured CaAl ₂ O ₄	PEDRO SALAS CASTILLO V. Chernov M. Barboza-Flores et al.	JOURNAL OF LUMINESCENCE	2022
17	Towards translation of surface-enhanced Raman spectroscopy (SERS) to clinical practice: Progress and trends	PEDRO SALAS CASTILLO Panikar S.S. Cialla-May D. et al.	TRAC-TRENDS IN ANALYTICAL CHEMISTRY	2021
18	Ligand-targeted Theranostic Liposomes combining methylene blue attached upconversion nanoparticles for NIR activated bioimaging and photodynamic therapy against HER-2 positive breast cancer	PEDRO SALAS CASTILLO Panikar S.S. Ramírez-García G. et al.	JOURNAL OF LUMINESCENCE	2021
19	Nanobodies as efficient drug-carriers: Progress and trends in chemotherapy	PEDRO SALAS CASTILLO Panikar S.S. Banu N. et al.	JOURNAL OF CONTROLLED RELEASE	2021
20	Effect of thermal treatment on luminescence properties of long persistent CaAl ₂ O ₄ :Eu ²⁺ ,Dy ³⁺ synthesized by combustion method	PEDRO SALAS CASTILLO Ruiz-Torres R. Chernov V. et al.	OPTICAL MATERIALS	2020
21	Enhanced Raman Effect of Solvothermal Synthesized Reduced Graphene Oxide/Titanium Dioxide Nanocomposites	CLARAMARIA RODRIGUEZ GONZALEZ Carlos Angeles Chavez VICTOR MANUEL CASTAÑO MENESES et al.	Chemistryselect	2020
22	Incorporation of amide functional groups to graphene oxide during the photocatalytic degradation of free cyanide	JOSE DE JESUS GARCIA VALDES PEDRO SALAS CASTILLO Barrera-Andrade J.M. et al.	MATERIALS LETTERS	2020
23	The first detection of radio recombination lines at cosmological distances	PEDRO SALAS CASTILLO Emig K.L. De Gasperin F. et al.	ASTRONOMY & ASTROPHYSICS	2019
24	Ultrasensitive SERS Substrate for Label-Free Therapeutic-Drug Monitoring of Paclitaxel and Cyclophosphamide in Blood Serum	PEDRO SALAS CASTILLO Sandeep Surendra Panikar Gonzalo Ramirez-Garcia et al.	ANALYTICAL CHEMISTRY	2019
25	Thermoluminescence and infrared stimulated luminescence in long persistent monoclinic SrAl ₂ O ₄ :Eu ²⁺ ,Dy ³⁺ and SrAl ₂ O ₄ :Eu ²⁺ ,Nd ³⁺ phosphors	PEDRO SALAS CASTILLO Chernov V. Díaz-Torres L.A. et al.	OPTICAL MATERIALS	2019
26	One- and two-dimensional carbon nanomaterials as adsorbents of cationic and anionic dyes from aqueous solutions	PEDRO SALAS CASTILLO Pérez-Ramírez E.E. de la Luz-Asunción M. et al.	CARBON LETTERS	2019

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27	Controlling trapping states on selective theranostic core@shell (NaYF ₄ :Yb,Tm@TiO ₂ -ZrO ₂) nanocomplexes for enhanced NIR-activated photodynamic therapy against breast cancer cells	PEDRO SALAS CASTILLO Ramírez-García G. De La Rosa E. et al.	DALTON TRANSACTIONS	2019
28	Persistent luminescence nanothermometers	PEDRO SALAS CASTILLO Martin Rodrigues, Emma Lopez-Pena, Gabriel et al.	APPLIED PHYSICS LETTERS	2017
29	Low-frequency Carbon Radio Recombination Lines. II. the Diffuse Interstellar Medium	PEDRO SALAS CASTILLO Salgado F. Morabito L.K. et al.	ASTROPHYSICAL JOURNAL	2017
30	Low-frequency Carbon Radio Recombination Lines. I. Calculations of Departure Coefficients	PEDRO SALAS CASTILLO Salgado F. Morabito L.K. et al.	ASTROPHYSICAL JOURNAL	2017
31	LOFAR observations of decameter carbon radio recombination lines towards Cassiopeia A	PEDRO SALAS CASTILLO Oonk J.B.R. van Weeren R.J. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2017
32	Carbon and hydrogen radio recombination lines from the cold clouds towards Cassiopeia A	PEDRO SALAS CASTILLO Oonk J.B.R. van Weeren R.J. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2017
33	Thermally and optically stimulated luminescence in long persistent orthorhombic strontium aluminates doped with Eu, Dy and Eu, Nd	PEDRO SALAS CASTILLO Zuniga-Rivera, N. J. Chernov, V. et al.	OPTICAL MATERIALS	2017
34	Thermodynamic properties of underdoped YBa ₂ Cu ₃ O _{6+x} cuprates for several doping values	PEDRO SALAS CASTILLO FRANCISCO JAVIER SEVILLA PEREZ Solís, M.A. et al.	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	2017
35	Tuning from green to red the upconversion emission of Y ₂ O ₃ :Er ³⁺ -Yb ³⁺ nanophosphors	PEDRO SALAS CASTILLO Diaz-Torres, L. A. Oliva, J. et al.	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2017
36	Biomimetic coat enables the use of sonoporation to assist delivery of silica nanoparticle-cargoes into human cells	LUZ MARIA LOPEZ MARIN FRANCISCO FERNANDEZ ESCOBAR PEDRO SALAS CASTILLO et al.	Biointerphases	2016

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37	Green synthesis of nanosilver-decorated graphene oxide sheets	PEDRO SALAS CASTILLO VICTOR MANUEL CASTAÑO MENESES Rodríguez-Gonzalez, Claramaria et al.	IET NANOBIOTECHN OLOGY	2016
38	Photocatalytic Activity and Optical Properties of Blue Persistent Phosphors under UV and Solar Irradiation	PEDRO SALAS CASTILLO Garcia, C. R. Díaz-Torres, L. A. et al.	INTERNATIONAL JOURNAL OF PHOTOENERGY	2016
39	Nanomolar detection of glucose using SERS substrates fabricated with albumin coated gold nanoparticles	PEDRO SALAS CASTILLO Perez-Mayen, Leonardo Oliva, Jorge et al.	Nanoscale	2016
40	Strong enhancement of the upconversion emission in ZrO ₂ : Yb ³⁺ , Er ³⁺ , Gd ³⁺ nanocubes synthesized with Na ₂ S	PEDRO SALAS CASTILLO Urbina-Frias, Alejandra Lopez-Luke, Tzarara et al.	JOURNAL OF LUMINESCENCE	2016
41	SERS-active Au/SiO ₂ clouds in powder for rapid ex vivo breast adenocarcinoma diagnosis	PEDRO SALAS CASTILLO Cepeda-Perez, Elisa Lopez-Luke, Tzarara et al.	BIOMEDICAL OPTICS EXPRESS	2016
42	Specific heat of underdoped cuprate superconductors from a phenomenological layered Boson-Fermion model	PEDRO SALAS CASTILLO MAURICIO FORTES BESPROSVANI MIGUEL ANGEL SOLIS ATALA et al.	PHYSICA C-SUPERCONDU CTIVITY AND ITS APPLICATIONS	2016
43	Photosensitized oxidation of 9,10-dimethylantracene with singlet oxygen by using a safranin O/silica composite under visible light	PEDRO SALAS CASTILLO Albiter E. Alfaro S.	PHOTOCHEMICA L & PHOTOBIOLOGI CAL SCIENCES	2015
44	Effect of TEA on the blue emission of ZnO quantum dots with high quantum yield	PEDRO SALAS CASTILLO Oliva, Jorge DíazTorres, Luis et al.	OPTICAL MATERIALS EXPRESS	2015
45	Photoluminescent and photocatalytic properties of bismuth doped strontium aluminates blended with titanium dioxide	PEDRO SALAS CASTILLO Garcia, C. R. DíazTorres, L. A. et al.	MATERIALS SCIENCE IN SEMICONDUCT OR PROCESSING	2015
46	Switching green to red emission in tridoped ZrO ₂ :Yb ³⁺ -Er ³⁺ -Bi ³⁺ nanocrystals	PEDRO SALAS CASTILLO UrbinaFrias, Alejandra LopezLuke, Tzarara et al.	OPTICAL MATERIALS	2015
47	Comparison as effective photocatalyst or adsorbent of carbon materials of one, two, and three dimensions for the removal of reactive red 2 in water	Eduardo E. PerezRamirez PEDRO SALAS CASTILLO Carlos VelascoSantos et al.	ENVIRONMENTA L ENGINEERING SCIENCE	2015
48	Enhancement of Visible Upconversion Emission in Y ₂ O ₃ : Er ³⁺ -Yb ³⁺ by Addition of Thiourea and LiOH in the Phosphor Synthesis	Eder ResendizL Claramaria RodriguezGonzalez PEDRO SALAS CASTILLO et al.	JOURNAL OF NANOMATERIAL S	2015

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49	Tunable white light from photo- and electroluminescence of ZnO nanoparticles	PEDRO SALAS CASTILLO Oliva, Jorge Perez Mayen, Leonardo et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2014
50	Improving pure red upconversion emission of Co-doped Y ₂ O ₃ :Yb ³⁺ -Er ³⁺ nanocrystals with a combination of sodium sulfide and surfactant Pluronic-F127	PEDRO SALAS CASTILLO Lopez-Luke, T. De la Rosa, E. et al.	JOURNAL OF LUMINESCENCE	2014
51	Trapping effect of periodic structures on the thermodynamic properties of a fermi gas	PEDRO SALAS CASTILLO MIGUEL ANGEL SOLIS ATALA	JOURNAL OF LOW TEMPERATURE PHYSICS	2014
52	UV photochemical synthesis of heparin-coated gold nanoparticles	PEDRO SALAS CASTILLO Claramaria Rodriguez Gonzalez Rodriguez-Torres, M. del P. et al.	GOLD BULLETIN	2014
53	Photoluminescence characterization of porous YAG: Yb ³⁺ -Er ³⁺ nanoparticles	PEDRO SALAS CASTILLO Desirena, H. Diaz-Torres, L. A. et al.	JOURNAL OF LUMINESCENCE	2014
54	Hydroxyapatite-Functionalized Graphene: A New Hybrid Nanomaterial	C. Rodriguez Gonzalez H. E. Cid Luna PEDRO SALAS CASTILLO et al.	JOURNAL OF NANOMATERIALS	2014
55	White light generation from YAG/YAM:Ce ³⁺ , Pr ³⁺ , Cr ³⁺ nanophosphors mixed with a blue dye under 340 nm excitation	PEDRO SALAS CASTILLO Oliva, J. De la Rosa, E. et al.	JOURNAL OF LUMINESCENCE	2014
56	NaOH-controlled upconversion of nanocrystalline BaZrO ₃ :Er,Yb phosphor	PEDRO SALAS CASTILLO VICTOR MANUEL CASTAÑO MENESES Diaz-Torres, L. A. et al.	INTERNATIONAL JOURNAL OF NANOTECHNOLOGY	2013
57	UVA mediated synthesis of gold nanoparticles in pharmaceutical-grade heparin sodium solutions	PEDRO SALAS CASTILLO CLARA LUZ GUTIERREZ PORRAS Rodríguez-Torres M.D.P. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2013
58	Wall Rock-Like Y ₂ O ₃ Nanorods by Hydrothermal Synthesis and their Luminescence Properties	PEDRO SALAS CASTILLO Romero, V. H. De la Rosa, E.	SCIENCE OF ADVANCED MATERIALS	2012
59	Boson Gas in a Periodic Array of Tubes	PEDRO SALAS CASTILLO FRANCISCO JAVIER SEVILLA PEREZ MIGUEL ANGEL SOLIS ATALA	JOURNAL OF LOW TEMPERATURE PHYSICS	2012

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60	Structural and photoluminescence study of Er-Yb codoped nanocrystalline ZrO ₂ -B ₂ O ₃ solid solution	PEDRO SALAS CASTILLO G. Rodriguez MARINA VEGA GONZALEZ et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2012
61	Green upconversion emission dependence on size and surface residual contaminants in nanocrystalline ZrO ₂ :Er ³⁺	PEDRO SALAS CASTILLO Diaz-Torres, L. A. Angeles-Chavez, C. et al.	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	2012
62	Strong blue and white photoluminescence emission of BaZrO ₃ undoped and lanthanide doped phosphor for light emitting diodes application	PEDRO SALAS CASTILLO Romero, V. H. De la Rosa, E. et al.	JOURNAL OF SOLID STATE CHEMISTRY	2012
63	Solvent and surfactant effect on the self-assembly and luminescence properties of ZrO ₂ :Eu ³⁺ nanoparticles	PEDRO SALAS CASTILLO Lopez-Luke, T. De la Rosa, E. et al.	APPLIED PHYSICS B-LASERS AND OPTICS	2011
64	Effect of solvent on the up- and downconversion emissions of Y ₂ O ₃ :Yb ³⁺ -Er ³⁺ nanofibers synthesized by a hydrothermal method	PEDRO SALAS CASTILLO Oliva, Jorge Meza, Octavio et al.	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS	2011
65	Visible upconversion emission and non-radiative direct Yb ³⁺ to Er ³⁺ energy transfer processes in nanocrystalline ZrO ₂ :Yb ³⁺ ,Er ³⁺	PEDRO SALAS CASTILLO Diaz-Torres, L. A. Meza, O. et al.	OPTICS AND LASERS IN ENGINEERING	2011
66	Structural study, photoluminescence, and photocatalytic activity of semiconducting BaZrO ₃ :Bi nanocrystals	PEDRO SALAS CASTILLO MARINA VEGA GONZALEZ Borja-Urby, R. et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2011

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67	Strong broad green UV-excited photoluminescence in rare earth (RE = Ce, Eu, Dy, Er, Yb) doped barium zirconate	PEDRO SALAS CASTILLO Borja-Urby, R. Diaz-Torres, L. A. et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2011
68	Red, green, blue and white light upconversion emission in Yb ³⁺ /Tm ³⁺ /Ho ³⁺ co-doped tellurite glasses	PEDRO SALAS CASTILLO Desirena, H. De la Rosa, E. et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2011
69	Gd ³⁺ and S ²⁺ sensitizer effect on the upconversion emission of ZrO ₂ :Yb ³⁺ , Er ³⁺ nanocrystals prepared by precipitation method with a hydrothermal process	PEDRO SALAS CASTILLO Urbina-Frías A. De La Rosa E. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2011
70	Synthesis of Ce-MCM-41 mesoporous solids and catalytic evaluation of Ni/Ce-MCM-41 catalysts for hydrogen production	PEDRO SALAS CASTILLO Wang J.A. Guevara J.C. et al.	Materials Research Society Symposium Proceedings	2010
71	Effect of ammonia on luminescent properties of YAG:Ce ³⁺ , Pr ³⁺ nanophosphors	PEDRO SALAS CASTILLO Oliva J. De La Rosa E. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2010
72	Effects of non-radiative energy transfer processes on the visible upconversion in ZrO ₂ :Yb ³⁺ +Er ³⁺ nanocrystals	PEDRO SALAS CASTILLO Meza O. Díaz-Torres L.A. et al.	Nanotechnology 2010 y 2010: Advanced Materials, Cnts, Particles, Films And Composites - Technical Proceedings Of The 201	2010

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73	Synthesis and characterization of up-conversion emission on lanthanides doped ZrO ₂ nanocrystals coated with SiO ₂ for biological applications	PEDRO SALAS CASTILLO López-Luke T. De La Rosa E. et al.	Progress in Biomedical Optics and Imaging	2010
74	Role of the Hydrothermal Synthesis Conditions on the Structure and Morphology of Co-Doped Y ₂ O ₃ :Er ³⁺ -Yb ³⁺ Nanostructured Materials	PEDRO SALAS CASTILLO Martinez, A. Morales, J. et al.	JOURNAL OF NANO RESEARCH	2010
75	Ni/Ce-MCM-41 mesostructured catalysts for simultaneous production of hydrogen and nanocarbon via methane decomposition	PEDRO SALAS CASTILLO OCTAVIO AUGUSTO NOVARO Y PEÑALOZA Guevara, J. C. et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2010
76	High angle annular dark field-scanning transmission electron microscopy and high-resolution transmission electron microscopy studies in the Er ₂ O ₃ -ZrO ₂ system	PEDRO SALAS CASTILLO Angeles-Chavez, C. Lopez-Luke, T. et al.	Vacuum	2010
77	Role of Yb ³⁺ and Er ³⁺ concentration on the tunability of green-yellow-red upconversion emission of codoped ZrO ₂ :Yb ³⁺ -Er ³⁺ nanocrystals	PEDRO SALAS CASTILLO Solis, D. De la Rosa, E. et al.	JOURNAL OF APPLIED PHYSICS	2010
78	Dynamics of the Green and Red Upconversion Emissions in Yb ³⁺ -Er ³⁺ -Codoped Y ₂ O ₃ Nanorods	PEDRO SALAS CASTILLO Meza, O. Diaz-Torres, L. A. et al.	JOURNAL OF NANOMATERIALS	2010
79	Dimensional crossover of a boson gas in multilayers	PEDRO SALAS CASTILLO FRANCISCO JAVIER SEVILLA PEREZ MAURICIO FORTES BESPROSVANI et al.	PHYSICAL REVIEW A	2010
80	Green and red upconverted emission of hydrothermal synthesized Y ₂ O ₃ :Er ³⁺ -Yb ³⁺ nanophosphors using different solvent ratio conditions	PEDRO SALAS CASTILLO Martinez, A. Morales, J. et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2010
81	Blue and red emission in wide band gap BaZrO ₃ :Yb ³⁺ ,Tm ³⁺	PEDRO SALAS CASTILLO MARINA VEGA GONZALEZ Borja-Urby, R. et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2010

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82	Color tunability of the upconversion emission in Er-Yb doped the wide band gap nanophosphors ZrO ₂ and Y ₂ O ₃	PEDRO SALAS CASTILLO Meza, O. Diaz-Torres, L. A. et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2010
83	Brilliant blue, green and orange-red emission band on Tm ³⁺ , Tb ³⁺ and Eu ³⁺ doped ZrO ₂ nanocrystals	PEDRO SALAS CASTILLO Romero, V. H. De la Rosa, E. et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2010
84	Structural and Chemical Characterization of Yb ₂ O ₃ -ZrO ₂ System by HAADF-STEM and HRTEM	PEDRO SALAS CASTILLO RODRIGO ALONSO ESPARZA MUÑOZ R. Perez et al.	MICROSCOPY AND MICROANALYSIS	2009
85	Effect of the Si/Zr molar ratio on the synthesis of Zr-based mesoporous molecular sieves	PEDRO SALAS CASTILLO Wang, J. A. Armendariz, H. et al.	MATERIALS CHEMISTRY AND PHYSICS	2009
86	Surfactant effect on the upconversion emission and decay time of ZrO ₂ :Yb-Er nanocrystals	PEDRO SALAS CASTILLO Solis, D. Lopez-Luke, T. et al.	JOURNAL OF LUMINESCENCE	2009
87	Cooperative Pair Driven Quenching of Yb ³⁺ Emission in Nanocrystalline ZrO ₂ :Yb ³⁺	PEDRO SALAS CASTILLO Meza, O. Diaz-Torres, L. A. et al.	JOURNAL OF NANO RESEARCH	2009
88	Green upconverted emission enhancement of ZrO ₂ :Yb(3+)-Ho(3+) nanocrystals	PEDRO SALAS CASTILLO Solis, D. De la Rosa, E. et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2009
89	BaZrO ₃ :Yb nanophosphor for efficient up-conversion light emission	PEDRO SALAS CASTILLO VICTOR MANUEL CASTAÑO MENESES Diaz-Torres L.A. et al.	Progress in clinical and biological research	2009
90	Facile synthesis and optical applications of ceramic nanophosphors	PEDRO SALAS CASTILLO Diaz-Torres L.A. De La Rosa E. et al.	LEOS Summer Topical Meeting	2008
91	Efficient photo luminescence of Dy ³⁺ at low concentrations in nanocrystalline ZrO ₂	PEDRO SALAS CASTILLO Diaz-Torres, L. A. De la Rosa, E. et al.	JOURNAL OF SOLID STATE CHEMISTRY	2008
92	A study of n-hexane hydroisomerization catalyzed with the Pt/H ₃ PW ₁₂ O ₄₀ /Zr-MCM-41 catalysts	PEDRO SALAS CASTILLO Chen, L. F. Norena, L. E. et al.	CATALYSIS TODAY	2008
93	Synthesis and photoluminescence of Y ₂ O ₃ :Yb ³⁺ -Er ³⁺ nanofibers	PEDRO SALAS CASTILLO Martinez, A. Morales, J. et al.	MICROELECTRO N J	2008

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94	Annealing effect on the luminescence properties of BaZrO ₃ : Yb ³⁺ microcrystals	PEDRO SALAS CASTILLO Oliva, J. De la Rosa, E. et al.	JOURNAL OF APPLIED PHYSICS	2008
95	One-Step "Green" Synthesis and Stabilization of Au and Ag Nanoparticles Using Ionic Polymers	PEDRO SALAS CASTILLO Garcia-Serrano, J. Pal, U. et al.	CHEMISTRY OF MATERIALS	2008
96	Thermoluminescence Properties of Undoped and Dy ³⁺ Doped ZrO ₂ Nanophosphor Under beta-Ray Irradiation	PEDRO SALAS CASTILLO Rodriguez, R. A. De la Rosa, E. et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2008
97	A New Blue, Green and Red Upconversion Emission Nanophosphor: BaZrO ₃ :Er,Yb	PEDRO SALAS CASTILLO Diaz-Torres, L. A. Perez-Huerta, J. S. et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2008
98	Structural and Spectroscopic Characterization of ZrO ₂ :Eu ³⁺ Nanoparticles	PEDRO SALAS CASTILLO Nava, N. Angeles-Chavez, C. et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2008
99	Blue-green upconversion emission in ZrO ₂ :Yb ³⁺ nanocrystals	PEDRO SALAS CASTILLO de la Rosa, E. Solis, D. et al.	JOURNAL OF APPLIED PHYSICS	2008
100	Dopant concentration effect on the TL response of ZrO ₂ :Lu ³⁺ nanocrystals under β -ray irradiation	PEDRO SALAS CASTILLO Romero V.H. De La Rosa E. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2007
101	Second-harmonic imaging of ZnO nanoparticles	PEDRO SALAS CASTILLO De La Rosa E. Yacaman M. et al.	Optics InfoBase Conference Papers	2007

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102	Thermoluminescence properties of undoped and Tb ³⁺ and Ce ³⁺ doped YAG nanophosphor under UV-, X- and β -ray irradiation	PEDRO SALAS CASTILLO De la Rosa E. Rodríguez R.A. et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2007
103	Thermoluminescent behavior of ZrO ₂ -CeO ₂ system exposed to UV and gamma radiation	PEDRO SALAS CASTILLO Rubio-Rosas E. Mendoza-Anaya D. et al.	MATERIALS AND MANUFACTURING PROCESSES	2007
104	Controlling the growth and luminescence properties of well-faceted ZnO nanorods	PEDRO SALAS CASTILLO De La Rosa E. Sepúlveda-Guzman S. et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2007
105	Synthesis and physicochemical properties of Zr-MCM-41 mesoporous molecular sieves and Pt/H ₃ PO ₄ /Zr-MCM-41 catalysts	JUAN MANUEL NAVARRETE TEJERO PEDRO SALAS CASTILLO Chen L.F. et al.	JOURNAL OF SOLID STATE CHEMISTRY	2007
106	Enhancing the up-conversion emission of ZrO ₂ :Er ³⁺ nanocrystals prepared by a micelle process	PEDRO SALAS CASTILLO López-Luke T. De La Rosa E. et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2007
107	Structural and photoluminescence characterization of nanocrystalline YAG: Er prepared with the addition of PVA and UREA	PEDRO SALAS CASTILLO Rodriguez R.A. Tobar E.H. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2007
108	Effect of the CTAB concentration on the upconversion emission of ZrO ₂ :Er ³⁺ nanocrystals	PEDRO SALAS CASTILLO López-Luke T. De la Rosa E. et al.	OPTICAL MATERIALS	2006
109	Comparative studies of Zr-based MCM-41 and MCM-48 mesoporous molecular sieves: Synthesis and physicochemical properties	JUAN MANUEL NAVARRETE TEJERO PEDRO SALAS CASTILLO Chen L.F. et al.	APPLIED SURFACE SCIENCE	2006
110	Estrellas de neutrones	PEDRO SALAS CASTILLO MIGUEL ANGEL SOLIS ATALA	REVISTA MEXICANA DE FISICA	2006
111	NMR and Mössbauer study of Al ₂ O ₃ -Eu ₂ O ₃	PEDRO SALAS CASTILLO Nava N. Llanos M.E. et al.	HYPERFINE INTERACTIONS	2005

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112	Thermoluminescence and optically stimulated luminescence properties of nanocrystalline Er ³⁺ and Yb ³⁺ doped Y ₃ Al ₅ O ₁₂ exposed to β -rays	PEDRO SALAS CASTILLO Rodríguez R.A. De La Rosa E. et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2005
113	Strong visible cooperative up-conversion emission in ZrO ₂ :Yb ³⁺ nanocrystals	PEDRO SALAS CASTILLO De La Rosa E. Díaz-Torres L.A. et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2005
114	Strong green upconversion emission in ZrO ₂ :Yb ³⁺ - Ho ³⁺ nanocrystals	PEDRO SALAS CASTILLO De La Rosa E. Desirena H. et al.	APPLIED PHYSICS LETTERS	2005
115	Enhanced cooperative absorption and upconversion in Yb ³⁺ -doped YAG nanophosphors	PEDRO SALAS CASTILLO Díaz-Torres L.A. De La Rosa E. et al.	OPTICAL MATERIALS	2005
116	Thermal stability and surface acidity of mesoporous silica doubly doped by incorporation of sulfate and zirconium ions	PEDRO SALAS CASTILLO DWIGHT ROBERTO ACOSTA NAJARRO Chen L.F. et al.	APPLIED SURFACE SCIENCE	2005
117	Low temperature synthesis and structural characterization of nanocrystalline YAG prepared by a modified sol-gel method	PEDRO SALAS CASTILLO De La Rosa E. Díaz-Torres L.A. et al.	OPTICAL MATERIALS	2005
118	Visible light emission under UV and IR excitation of rare earth doped ZrO ₂ nanophosphor	PEDRO SALAS CASTILLO De La Rosa E. Díaz-Torres L.A. et al.	OPTICAL MATERIALS	2005
119	Synthesis, characterization and luminescence properties of ZrO ₂ :Yb ³⁺ -Er ³⁺ nanophosphor	PEDRO SALAS CASTILLO Angeles-Chávez C. Montoya J.A. et al.	OPTICAL MATERIALS	2005
120	Optically stimulated luminescence properties of nanocrystalline Y ₃ Al ₅ O ₁₂ phosphor exposed to β radiation	PEDRO SALAS CASTILLO De La Rosa E. Rodríguez R.A. et al.	OPTICAL MATERIALS	2005
121	OSL and TL dosimeter characterization of boron doped CVD diamond films	PEDRO SALAS CASTILLO Gonçalves J.A.N. Sandonato G.M. et al.	OPTICAL MATERIALS	2005
122	Thermoluminescence characterization of nanocrystalline and single Y ₃ Al ₅ O ₁₂ crystal exposed to β -irradiation for dosimetric applications	PEDRO SALAS CASTILLO Rodríguez R.A. De La Rosa E. et al.	OPTICAL MATERIALS	2005
123	Nanoparticle thin films of nanocrystalline YAG by pulsed laser deposition	PEDRO SALAS CASTILLO Díaz-Torres L.A. De La Rosa E. et al.	OPTICAL MATERIALS	2005

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124	Visible emission of rare earth doped ZrO 2 nanocrystalline phosphor under UV and IR excitation	PEDRO SALAS CASTILLO De La Rosa-Cruz E. Díaz-Torres L.A. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
125	Concentration and crystallite size dependence of the photoluminescence in YAG:Ce 3+ nanophosphor	PEDRO SALAS CASTILLO Ovalle R. Arredondo A. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
126	Concentration enhanced red upconversion in nanocrystalline ZrO 2: Er under IR excitation	PEDRO SALAS CASTILLO Díaz-Torres L.A. De La Rosa-Cruz E. et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2004
127	Preparation, photo- and thermo-luminescence characterization of Tb 3+ and Ce3+ doped nanocrystalline Y3Al 5O12 exposed to UV-irradiation	PEDRO SALAS CASTILLO Rodríguez-Rojas R.A. De la Rosa-Cruz E. et al.	OPTICAL MATERIALS	2004
128	Temperature effect in the crystallite size and the photoluminescence of nanocrystalline ZrO 2:Sm 3+ phosphor	PEDRO SALAS CASTILLO De La Rosa E. Díaz-Torres L.A. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
129	Thermoluminescence characterization of Tb 3+ and Ce 3+ doped nanocrystalline Y 3Al 5O 12 exposed to X- and β-ray irradiation	PEDRO SALAS CASTILLO Rodríguez R.A. De La Rosa E. et al.	OPTICAL MATERIALS	2004
130	Monoclinic ZrO2 as a broad spectral response thermoluminescence UV dosimeter	PEDRO SALAS CASTILLO VICTOR MANUEL CASTAÑO MENESES De la Rosa-Cruz E. et al.	RADIATION MEASUREMENTS	2003
131	Nanoparticle-enhanced thermoluminescence in silica gels	PEDRO SALAS CASTILLO VICTOR MANUEL CASTAÑO MENESES Mendoza-Anaya D. et al.	Nanotechnology	2003
132	Luminescence and visible upconversion in nanocrystalline ZrO2:Er3+	PEDRO SALAS CASTILLO De La Rosa-Cruz E. Díaz-Torres L.A. et al.	APPLIED PHYSICS LETTERS	2003

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133	Luminescent properties and energy transfer in $\text{ZrO}_2\text{:Sm}^{3+}$ nanocrystals	PEDRO SALAS CASTILLO De la Rosa-Cruz E. Díaz-Torres L.A. et al.	JOURNAL OF APPLIED PHYSICS	2003
134	Effect of microwave irradiation time on the synthesis of zirconia-pillared clays	VIOLETA MIREYA RODRIGUEZ DEL VILLAR PEDRO SALAS CASTILLO PEDRO BOSCH GIRAL et al.	MATERIALS LETTERS	2003
135	Synthesis of advanced materials via the sol-gel route	PEDRO SALAS CASTILLO ERIC MAURICIO RIVERA MUÑOZ VICTOR MANUEL CASTAÑO MENESES et al.	MATERIALS TECHNOLOGY	2003
136	Photoluminescence and thermoluminescence of $\text{YAG:Ce}^{3+}, \text{Tb}^{3+}$ nanocrystalline under UV-, X- and β -irradiation	PEDRO SALAS CASTILLO De la Rosa-Cruz E. Díaz-Torres L.A. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2002
137	Luminescence and thermoluminescence induced by Gamma and UV-irradiation in pure and rare earth doped zirconium oxide	PEDRO SALAS CASTILLO DOROTEO MENDOZA LOPEZ De la Rosa-Cruz E. et al.	OPTICAL MATERIALS	2002
138	Nanocrystalline tetragonal zirconium oxide stabilization at low temperatures by using rare earth ions: Sm^{3+} and Tb^{3+}	PEDRO SALAS CASTILLO Córdova-Martínez W. De la Rosa-Cruz E. et al.	OPTICAL MATERIALS	2002
139	Refractive index measurement of pure and Er^{3+} -doped $\text{ZrO}_2\text{-SiO}_2$ sol-gel film by using the Brewster angle technique	PEDRO SALAS CASTILLO JOSE ROGELIO RODRIGUEZ TALAVERA Luna-Moreno D. et al.	OPTICAL MATERIALS	2002
140	Non-radiative energy transfer process in the system $\text{Sm}^{3+}:\text{ZrO}_2$ prepared by sol-gel technique	PEDRO SALAS CASTILLO VICTOR MANUEL CASTAÑO MENESES De la Rosa-Cruz E. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2001
141	Evidence of non-radiative energy transfer from the host to the active ions in monoclinic $\text{ZrO}_2\text{:Sm}^{3+}$	PEDRO SALAS CASTILLO VICTOR MANUEL CASTAÑO MENESES De La Rosa-Cruz E. et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2001
142	Thermo-luminescence induced by gamma irradiation in sol-gel prepared zirconia-silica materials	PEDRO SALAS CASTILLO VICTOR MANUEL CASTAÑO MENESES JOSE ROGELIO RODRIGUEZ TALAVERA et al.	MATERIALS RESEARCH INNOVATIONS	2000

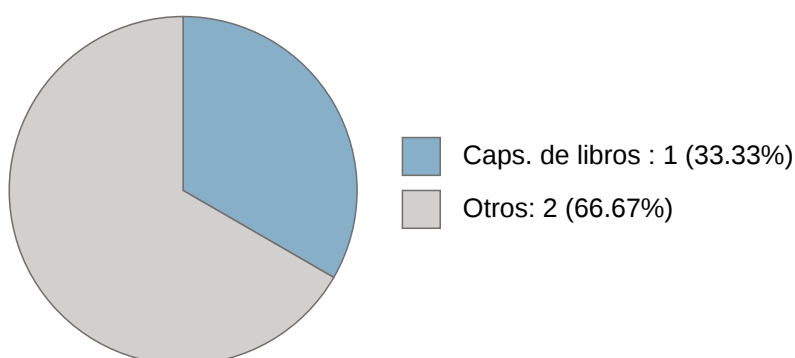
PEDRO SALAS CASTILLO

143	Ce-Al-pillared clays: Synthesis, characterization, and catalytic performance	PEDRO SALAS CASTILLO PEDRO BOSCH GIRAL Fetter G. et al.	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	2000
144	High temperature thermoluminescence induced on UV-irradiated tetragonal ZrO ₂ prepared by sol-gel	PEDRO SALAS CASTILLO JOSE ROGELIO RODRIGUEZ TALAVERA VICTOR MANUEL CASTAÑO MENESES et al.	MATERIALS LETTERS	2000
145	Segregation effects in sol-gel zirconia-silica materials analyzed through their radial distribution functions	PEDRO SALAS CASTILLO JOSE ROGELIO RODRIGUEZ TALAVERA Montoya J. et al.	MATERIALS RESEARCH INNOVATIONS	2000
146	Propane dehydrogenation activity of Pt and Pt-Sn catalysts supported on magnesium aluminate: Influence of steam and hydrogen	PEDRO SALAS CASTILLO Aguilar-Ríos G. Valenzuela M.A. et al.	CATALYSIS LETTERS	1999
147	Effect of Tin Precursor on the Catalytic Properties of Pt-Sn/Al ₂ O ₃ Sol-Gel Prepared Catalysts	PEDRO SALAS CASTILLO Gomez R. Lopez T. et al.	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	1997
148	Preparation of Magnesia-Silica Oxides: Effect of Mg/Si Ratio and Sulfate on Acidity	JUAN MANUEL NAVARRETE TEJERO PEDRO SALAS CASTILLO Lopez T. et al.	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	1997
149	Reduction of NO by CO using a zeolite catalyst obtained from fly ash	PEDRO SALAS CASTILLO López-Salinas E. Schifter I. et al.	STUD SURF SCI CATAL	1997
150	Effect of tin content on silica mixed oxides: Sulfated and unsulfated catalysts	PEDRO SALAS CASTILLO JUAN MANUEL NAVARRETE TEJERO Hernández J.G. et al.	JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL	1997
151	Improving the n-pentane hydroisomerization of Pt/SO ₂ -4 (SiO ₂) catalysts through mixing with ZrO ₂	JUAN MANUEL NAVARRETE TEJERO PEDRO SALAS CASTILLO Salmones J. et al.	CATALYSIS LETTERS	1996
152	Sulfated SnO ₂ -SiO ₂ superacid catalysts by Sol-Gel method	PEDRO SALAS CASTILLO JUAN MANUEL NAVARRETE TEJERO Hernández J.G. et al.	JOURNAL OF POROUS MATERIALS	1996

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

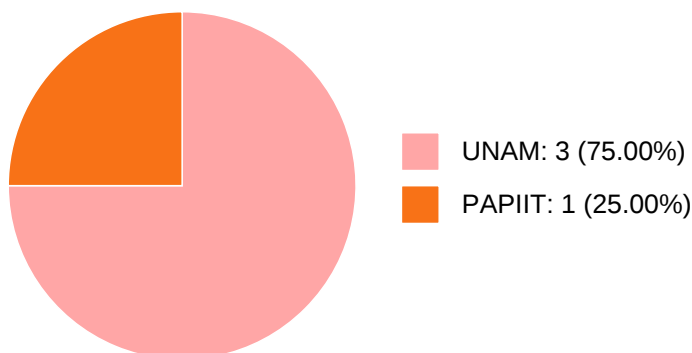


#	Título	Autores	Alcance	Año	ISBN
1	Graphene Oxide Grafting Biomolecules onto Graphene Oxide Sheets	PEDRO SALAS CASTILLO	Capítulo de un Libro	2015	9781466580343
2	Hydrothermal synthesis and photoluminescent characterization of nanocrystalline BaZrO ₃	PEDRO SALAS CASTILLO VICTOR MANUEL CASTAÑO MENESES Díaz-Torres L.A. et al.	Conferencia y Paper	2010	9781439834015
3	Second-harmonic imaging of ZnO nanoparticles	PEDRO SALAS CASTILLO De La Rosa E. Yacaman M. et al.	Conferencia y Paper	2007	9781557528346

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

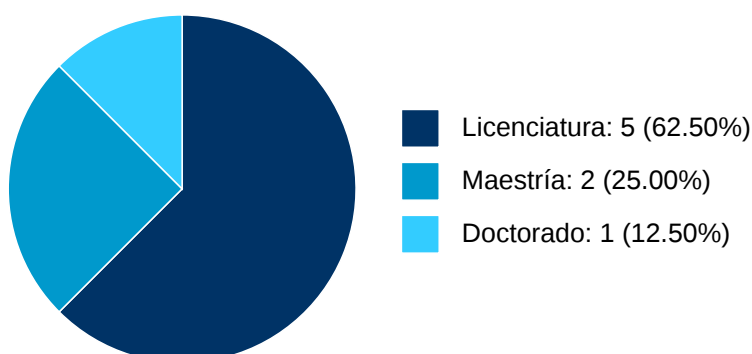


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Sustratos flexibles basados en materiales grafénicos, nanocelulosa y oro para detección de moléculas de interés medioambiental mediante SERS	PEDRO SALAS CASTILLO	Recursos PAPIIT	01-01-2023	31-12-2025
2	Desarrollo de materiales nanoestructurados.	PEDRO SALAS CASTILLO	Presupuesto de la UNAM asignado a la Dependencia	01-01-2016	31-12-2026
3	Diseño de nuevos materiales persistentes en la región del infrarrojo.	PEDRO SALAS CASTILLO	Presupuesto de la UNAM asignado a la Dependencia	01-01-2017	31-03-2025
4	Desarrollo de materiales nanométricos para aplicaciones biomédicas.	PEDRO SALAS CASTILLO	Presupuesto de la UNAM asignado a la Dependencia	01-01-2017	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	Nanopartículas luminiscentes de Y2O3 : Yb,Er embebidas en esferas mesoporosas de SiO2	Tesis de Licenciatura	GONZALO RAMIREZ GARCIA,	PEDRO SALAS CASTILLO, Padrón Yáñez, Miguel Ángel,	Centro de Física Aplicada y Tecnología Avanzada,	2024
2	Síntesis, caracterización estructural y estudio AB initio de las propiedades electrónicas de la perovskita de SrZrO3	Tesis de Maestría	PEDRO SALAS CASTILLO,	Rosales López, Mariel Alexia,	Centro de Física Aplicada y Tecnología Avanzada,	2023
3	Síntesis solvotermal de NaYF4:Yb3+, RE (RE=Tm3+, Er3+) con emisiones por conversión ascendente en la región UV-Vis-NIR	Tesis de Licenciatura	GONZALO RAMIREZ GARCIA,	PEDRO SALAS CASTILLO, Ramírez Jiménez, Nélida,	Centro de Física Aplicada y Tecnología Avanzada,	2022
4	Síntesis y caracterización de materiales nanoestructurados a partir de grafeno y nanopartículas de oro	Tesis de Licenciatura	PEDRO SALAS CASTILLO,	Lugo Rivera, Sandra del Carmen,	Centro de Física Aplicada y Tecnología Avanzada,	2019
5	Síntesis y caracterización de nanofósforos persistentes en el infrarrojo	Tesis de Maestría	PEDRO SALAS CASTILLO,	Pérez Tiscareño, Andrea del Rocío,	Centro de Física Aplicada y Tecnología Avanzada,	2019

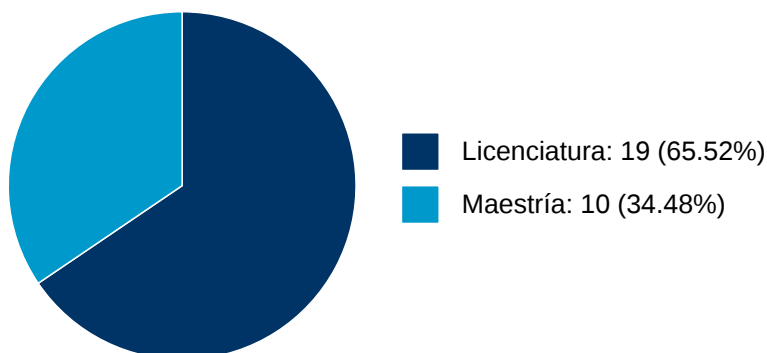
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6	Síntesis y caracterización de materiales nanoestructurados basados en grafeno y TiO ₂	Tesis de Licenciatura	PEDRO SALAS CASTILLO,	Ayala Fonseca, Luis Alfredo,	Centro de Física Aplicada y Tecnología Avanzada,	2018
7	Desarrollo de materiales nanoestructurados luminiscentes	Tesis de Doctorado	VICTOR MANUEL CASTAÑO MENESES,	PEDRO SALAS CASTILLO, Resendiz López, Eder,	Centro de Física Aplicada y Tecnología Avanzada,	2016
8	Síntesis y caracterización de Y ₂ O ₃ dopado con tierras raras	Tesis de Licenciatura	PEDRO SALAS CASTILLO,	Bejarano de Jesús, Benjamín Evani,	Centro de Física Aplicada y Tecnología Avanzada,	2015

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	MATERIALES ELECTRÓNICOS: NANOTECNOLOGÍA Y NANOMATERIALES	Instituto de Investigaciones en Materiales	1	2023-2
2	Maestría	MATERIALES ELECTRÓNICOS: NANOTECNOLOGÍA Y NANOMATERIALES	Instituto de Investigaciones en Materiales	2	2023-1
3	Licenciatura	NANOESTRUCTURAS	ESCUELA NACIONAL DE ESTUDIOS SUPERIORES, UNIDAD JURIQUILLA, QRTO.	6	2022-2
4	Licenciatura	NANOESTRUCTURAS	ESCUELA NACIONAL DE ESTUDIOS SUPERIORES, UNIDAD JURIQUILLA, QRTO.	3	2022-2
5	Maestría	MATERIALES ELECTRÓNICOS: NANOTECNOLOGÍA Y NANOMATERIALES	Instituto de Investigaciones en Materiales	1	2022-2
6	Licenciatura	QUIMICA ORGANICA	ESCUELA NACIONAL DE ESTUDIOS SUPERIORES, UNIDAD JURIQUILLA, QRTO.	21	2020-2
7	Licenciatura	NORMALIZACION Y CARACTER.NANOESTRU	Centro de Física Aplicada y Tecnología Avanzada	3	2019-2
8	Maestría	TEMAS SELECTOS DE MATERIALES CERÁMICOS SINTESIS DE SOPORTES Y CATALIZADORES HETEROGENEOS	Instituto de Investigaciones en Materiales	1	2019-2

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9	Licenciatura	NANOESTRUCTURAS	Centro de Física Aplicada y Tecnología Avanzada	6	2019-1
10	Licenciatura	NORMALIZACION Y CARACTER.NANOESTRU	Centro de Física Aplicada y Tecnología Avanzada	5	2018-2
11	Maestría	METODOS DE PREPARACION DE MATERIALES CERAMICOS	Instituto de Investigaciones en Materiales	1	2018-2
12	Maestría	TEMAS SELECTOS DE MATERIALES CERAMICOS,NANOPARTICULAS DE METALES Y OXIDOS: SINTESIS, CARACTERIZACION Y PROPIEDADES CATALITICAS	Instituto de Investigaciones en Materiales	1	2018-2
13	Licenciatura	NANOESTRUCTURAS	Centro de Física Aplicada y Tecnología Avanzada	9	2018-1
14	Licenciatura	NANOESTRUCTURAS-2424	Centro de Física Aplicada y Tecnología Avanzada	8	2016-2
15	Licenciatura	TEMAS SELECTOS DE NANOTECNOLOGIA-330620	Centro de Física Aplicada y Tecnología Avanzada	5	2016-1
16	Licenciatura	ESTANCIA DE INVESTIGACION VII-32784	Centro de Física Aplicada y Tecnología Avanzada	14	2016-1
17	Licenciatura	NANOESTRUCTURAS	Centro de Física Aplicada y Tecnología Avanzada	4	2015-2
18	Licenciatura	ESTANCIA DE INVESTIGACION VII	Centro de Física Aplicada y Tecnología Avanzada	16	2015-1
19	Licenciatura	NANOESTRUCTURAS	Centro de Física Aplicada y Tecnología Avanzada	7	2015-1
20	Maestría	TRABAJO DE INVESTIGACION III	Facultad de Ingeniería	1	2015-1
21	Maestría	TRABAJO DE INVESTIGACION IV	Facultad de Ingeniería	1	2015-1
22	Licenciatura	NANOESTRUCTURAS	Centro de Física Aplicada y Tecnología Avanzada	5	2014-2
23	Maestría	TRABAJO DE INVESTIGACION II	Facultad de Ingeniería	1	2014-2
24	Licenciatura	NANOESTRUCTURAS	Centro de Física Aplicada y Tecnología Avanzada	10	2014-1
25	Licenciatura	ESTANCIA DE INVESTIGACION III	Centro de Física Aplicada y Tecnología Avanzada	17	2013-1
26	Licenciatura	NANOESTRUCTURAS	Centro de Física Aplicada y Tecnología Avanzada	5	2012-2
27	Licenciatura	NANOESTRUCTURAS	Centro de Física Aplicada y Tecnología Avanzada	11	2011-2
28	Licenciatura	FISICOQUIMICA	Centro de Física Aplicada y Tecnología Avanzada	13	2011-2
29	Maestría	MATERIALES FUNCIONALES ORGANICOS (OPTATIVA)	Instituto de Investigaciones en Materiales	2	2008-2



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



PEDRO SALAS CASTILLO

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