



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



HUGO ALBERTO LARA GARCIA

Datos Generales

Nombre: HUGO ALBERTO LARA GARCIA

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 8 años

Nombramientos

Vigente: INVESTIGADOR ASOCIADO C TC No Definitivo
Instituto de Física
Desde 16-08-2019

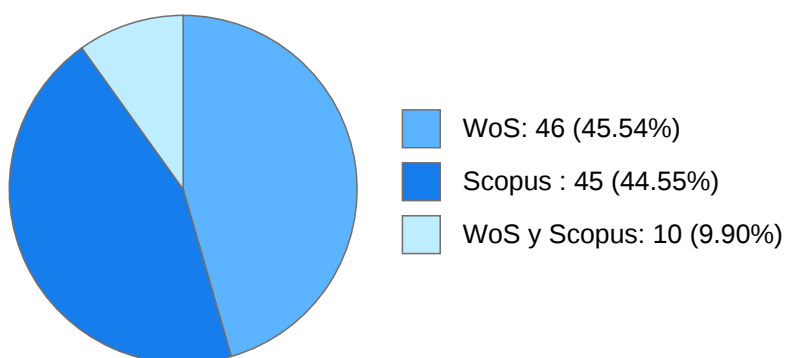
Estímulos, programas, premios y reconocimientos

SNI I 2019 - VIGENTE
EQUIVALENCIA PRIDE B 2019 - 2024

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Enhancing photocatalytic hydrogen production: The impact of copper loading on Cu-doped TiNT and CuO/TiNT heterostructures	MELISSA MENDEZ GALVAN KAREN VALENCIA GARCIA HUGO ALBERTO LARA GARCIA et al.	Fuel	2025
2	Magnetic/optical assessments of RFeO ₃ (R=La, Pr, Nd, and Sm) ceramics: An experimental and theoretical discernment	JONATHAN ZAMORA MENDIETA NORA SOYUKI PORTILLO VELEZ HERIBERTO PFEIFFER PEREA et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2024
3	Influence of NiO into the CO ₂ capture of Li ₄ SiO ₄ and its catalytic performance on dry reforming of methane	BRENDA CECILIA ALCANTAR VAZQUEZ HERIBERTO PFEIFFER PEREA HUGO ALBERTO LARA GARCIA et al.	Heliyon	2024
4	Depicting the Nitric Oxide (NO) Chemical Sorption in Lithium Cuprate (Li ₂ CuO ₂), through Thermokinetic and Spectroscopic Analyses	ROBERTO MARTINEZ RODRIGUEZ HUGO ALBERTO LARA GARCIA HERIBERTO PFEIFFER PEREA et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2024
5	CYCU-3: an Al(iii)-based MOF for SO ₂ capture and detection	VALERIA BELEN LOPEZ CERVANTES HUGO ALBERTO LARA GARCIA Obeso J.L. et al.	DALTON TRANSACTIONS	2024
6	Intercavity polariton slows down dynamics in strongly coupled cavities	DAVID LEY DOMINGUEZ ROMAN JOSUE ARMENTA RICO HUZIEL ENOC SAUCEDA FELIX et al.	NATURE COMMUNICATIONS	2024

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7	Impact of Ni(II) coordinatively unsaturated sites and coordinated water molecules on SO_2 adsorption by a MOF with octanuclear metal clusters	JUAN CARLOS OBESO JUREIDINI HUGO ALBERTO LARA GARCIA ILICH ARGEL IBARRA ALVARADO et al.	JOURNAL OF MATERIALS CHEMISTRY A	2024
8	Remote control of excitonic materials using coupled optical cavities	GIUSEPPE PIRRUCCIO BRENDA CASANDRA VARGAS ROCHA DAVID LEY DOMINGUEZ et al.	EOS ANNUAL MEETING, EOSAM 2024	2024
9	Fate of the upper polariton: Breakdown of the quasiparticle picture in the continuum br	BRENDA CASANDRA VARGAS ROCHA CESAR LEONARDO ORDOÑEZ ROMERO HUGO ALBERTO LARA GARCIA et al.	PHYSICAL REVIEW B	2023
10	Topological Frenkel exciton polaritons in one-dimensional lattices of strongly coupled cavities	CESAR LEONARDO ORDOÑEZ ROMERO HUGO ALBERTO LARA GARCIA ARTURO CAMACHO GUARDIAN et al.	PHYSICAL REVIEW B	2023
11	Advanced materials for CO ₂ capture, storage and utilization, International Materials Research Congress, IMRC 2021	HUGO ALBERTO LARA GARCIA GABRIELA ALICIA DIAZ GUERRERO Reina T.R. et al.	Fuel	2023
12	Salvador López-Morales	JUAN CARLOS OBESO JUREIDINI EVA MARIA DE JESUS MARTINEZ AHUMADA HUGO ALBERTO LARA GARCIA et al.	Acs Applied Energy Materials	2022
13	Shaping and enhancing the photoluminescence of halide perovskite quantum dots with plasmonic lattices	NASER QURESHI DIEGO SOLIS IBARRA ANA CECILIA NOGUEZ GARRIDO et al.	JOURNAL OF MATERIALS CHEMISTRY C	2022
14	SO ₂ capture in a chemical stable Al(III) MOF: DUT-4 as an effective adsorbent to clean CH ₄	GABRIELA ALICIA DIAZ GUERRERO EVA MARIA DE JESUS MARTINEZ AHUMADA HUGO ALBERTO LARA GARCIA et al.	Fuel	2022
15	Exploring the CO ₂ conversion into hydrocarbons via a photocatalytic process onto M-doped titanate nanotubes (M = Ni and Cu)	CHRISTIAN ALEJANDRO CELAYA LOPEZ MELISSA MENDEZ GALVAN JORGE NOE DIAZ DE LEON HERNANDEZ et al.	Fuel	2022
16	Cobalt-Ceria Catalysts for the Methanol Decomposition: Insights in the Long-Term Stability and Methanol Interaction	DIEGO DANIEL GONZALEZ ARAIZA CHRISTIAN ALEJANDRO CELAYA LOPEZ LUCIANO ANTONIO GOMEZ CORTES et al.	TOPICS IN CATALYSIS	2022
17	Capture and detection of SO ₂ using a chemically stable Mg(ii)-MOF	EVA MARIA DE JESUS MARTINEZ AHUMADA HUGO ALBERTO LARA GARCIA SALVADOR LOPEZ MORALES et al.	JOURNAL OF MATERIALS CHEMISTRY A	2022

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18	Linezolid@MOF-74 as a host-guest system with antimicrobial activity	HUGO ALBERTO LARA GARCIA ILICH ARGEL IBARRA ALVARADO ENRIQUE JAIME LIMA MUÑOZ et al.	JOURNAL OF MATERIALS CHEMISTRY B	2022
19	Understanding hydroxyl radicals addition to CO ₂ on α-Fe ₂ O ₃ (110) surface photocatalyst for organic compounds production	CHRISTIAN ALEJANDRO CELAYA LOPEZ OSCAR ANDRES JARAMILLO QUINTERO HUGO ALBERTO LARA GARCIA et al.	Fuel	2022
20	Development of a fluorite/perovskite composite for the catalytic combustion of soot	HUGO ALBERTO LARA GARCIA M. A. de la Rosa-Guzman H. Romero-Mijangos et al.	Mrs Advances	2021
21	Chemical synthesis and evaluation of Co ₃ O ₄ /Ce _{0.9} Zr _{0.05} Y _{0.05} O _{2-d} mixed oxides for the catalytic-assisted combustion of soot	OSCAR OVALLE ENCINIA HUGO ALBERTO LARA GARCIA Téllez-Salazar W.N. et al.	CHEMICAL ENGINEERING SCIENCE	2021
22	Tuning the band gap of M-doped titanate nanotubes (M = Fe, Co, Ni, and Cu): an experimental and theoretical study	MELISSA MENDEZ GALVAN CHRISTIAN ALEJANDRO CELAYA LOPEZ OSCAR ANDRES JARAMILLO QUINTERO et al.	Nanoscale Advances	2021
23	Metal halide perovskites as an emergent catalyst for CO ₂ photoreduction: a minireview dagger	MELISSA MENDEZ GALVAN BRENDA CECILIA ALCANTAR VAZQUEZ GABRIELA ALICIA DIAZ GUERRERO et al.	REACTION CHEMISTRY & ENGINEERING	2021
24	Water Adsorption Properties of Fe(pz)[Pt(CN) ₄] and the Capture of CO ₂ and CO	DANIEL ALVARADO ALVARADO EDUARDO GONZALEZ ZAMORA HUGO ALBERTO LARA GARCIA et al.	Organometallic s	2020
25	A detailed description of the CO molecule adsorbed in InOF-1	BRUNO CHRISTIAN LANDEROS RIVERA ILICH ARGEL IBARRA ALVARADO MARIANA LIZETH DIAZ RAMIREZ et al.	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2020
26	Partially Reversible H ₂ S Adsorption by MFM-300(Sc): Formation of Polysulfides	JOSE ANTONIO ZARATE COLIN JORGE ROBERTO VALENZUELA GARCIA DE LEON AIDA GUTIERREZ ALEJANDRE et al.	ACS APPLIED MATERIALS & INTERFACES	2020
27	High and reversible SO ₂ capture by a chemically stable Cr(III)-based MOF	MARIANA LIZETH DIAZ RAMIREZ HUGO ALBERTO LARA GARCIA VOJTECH JANCIK et al.	JOURNAL OF MATERIALS CHEMISTRY A	2020
28	Preservation of wooden objects recovered from the recent archaeological excavations of the Great Temple in Tenochtitlan	HUGO ALBERTO LARA GARCIA ENRIQUE JAIME LIMA MUÑOZ Maria Barajas Rocha et al.	JOURNAL OF CULTURAL HERITAGE	2020
29	Functionalized NU-1000 with an Iridium Organometallic Fragment: SO ₂ Capture Enhancement	MARIANA LIZETH DIAZ RAMIREZ HUGO ALBERTO LARA GARCIA ILICH ARGEL IBARRA ALVARADO et al.	ACS APPLIED MATERIALS & INTERFACES	2020

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30	Dry reforming of methane over nickel supported on Nd-ceria: enhancement of the catalytic properties and coke resistance	HUGO ALBERTO LARA GARCIA DIEGO DANIEL GONZALEZ ARAIZA MELISSA MENDEZ GALVAN et al.	RSC ADVANCES	2020
31	Synthesis of $\text{Li}_{4+x}\text{Si}_x\text{Fe}_{1-x}\text{O}_4$ solid solution by dry ball milling and its highly efficient CO_2 chemisorption in a wide temperature range and low CO_2 concentrations	HUGO ALBERTO LARA GARCIA OSCAR OVALLE ENCINIA ENRIQUE JAIME LIMA MUÑOZ et al.	JOURNAL OF MATERIALS CHEMISTRY A	2019
32	High and Efficient CO_2 Capture in Molten Nitrate-Modified Mg-Al-Palmitate Layered Double Oxides at High Pressures and Elucidation of Carbonation Mechanisms by in Situ DRIFT Spectroscopy Analysis	HUGO ALBERTO LARA GARCIA LUCIANO ANTONIO GOMEZ CORTES GABRIELA ALICIA DIAZ GUERRERO et al.	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	2019
33	Pentalithium Ferrite (Li_5FeO_4) as Highly Active Material for Hydrogen Production in the Chemical Looping Partial Oxidation of Methane	CARLOS HERNANDEZ FONTES JUAN ARTURO MENDOZA NIETO HUGO ALBERTO LARA GARCIA et al.	TOPICS IN CATALYSIS	2019
34	Relevance of hydrogen bonding in CO_2 capture enhancement within InOF-1: An energy and vibrational analysis	HUGO ALBERTO LARA GARCIA BRUNO CHRISTIAN LANDEROS RIVERA LUCIANO ANTONIO GOMEZ CORTES et al.	DALTON TRANSACTIONS	2019
35	Confined toluene within InOF-1: CO_2 capture enhancement	JONATHAN EMMANUEL SANCHEZ BAUTISTA BRUNO CHRISTIAN LANDEROS RIVERA JORGE BALMASEDA ERA et al.	RSC ADVANCES	2019
36	CO_x -free hydrogen production from ammonia on novel cobalt catalysts supported on 1D titanate nanotubes	HUGO ALBERTO LARA GARCIA JUAN ARTURO MENDOZA NIETO HERIBERTO PFEIFFER PEREA et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2019
37	UNAM-1: a robust Cu-I and Cu-II containing 3D-hydrogen-bonded framework with permanent porosity and reversible SO_2 sorption	DIEGO MARTINEZ OTERO HUGO ALBERTO LARA GARCIA JORGE BALMASEDA ERA et al.	JOURNAL OF MATERIALS CHEMISTRY A	2019
38	Alkaline Ceramics-based High-temperature CO_2 Sorbents	ELIZABETH VERA BERNAL HUGO ALBERTO LARA GARCIA HERIBERTO PFEIFFER PEREA	Rsc Inorganic Materials Series	2018
39	High and efficient $\text{Li}_2\text{CuO}_2\text{-CO}_2$ chemisorption using different partial pressures and enhancement produced by the oxygen addition	HUGO ALBERTO LARA GARCIA HERIBERTO PFEIFFER PEREA	CHEMICAL ENGINEERING JOURNAL	2017

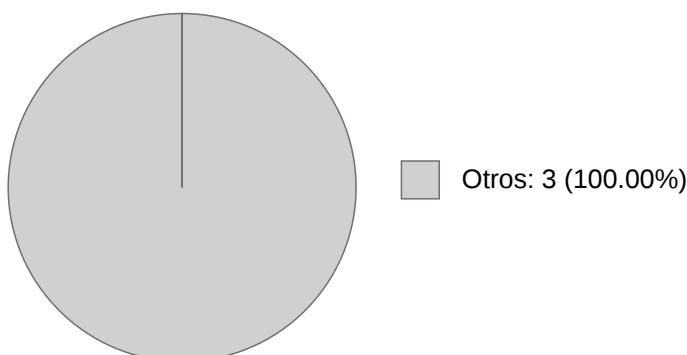
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40	Analysis of the CO ₂ Chemisorption in Li ₅ FeO ₄ , a New High Temperature CO ₂ Captor Material. Effect of the CO ₂ and O ₂ Partial Pressures	HUGO ALBERTO LARA GARCIA HERIBERTO PFEIFFER PEREA Sanchez-Camacho, Pedro et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2017
41	Bifunctional application of lithium ferrites (Li ₅ FeO ₄ and LiFeO ₂) during carbon monoxide (CO) oxidation and chemisorption processes. A catalytic, thermogravimetric and theoretical analysis	HUGO ALBERTO LARA GARCIA ELIZABETH VERA BERNAL JUAN ARTURO MENDOZA NIETO et al.	CHEMICAL ENGINEERING JOURNAL	2017
42	CO Chemical Capture on Lithium Cuprate, Through a Consecutive CO Oxidation and Chemisorption Bifunctional Process	HUGO ALBERTO LARA GARCIA HERIBERTO PFEIFFER PEREA Alcantar-Vazquez, Brenda et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2016
43	Evidence of CO oxidation-chemisorption process on sodium zirconate (Na ₂ ZrO ₃)	Brenda AlcantarVazquez Elizabeth Vera Frida BuitronCabrera et al.	CHEMISTRY LETTERS	2015
44	Separation of CO ₂ from CH ₄ and CO ₂ capture in the presence of water vapour in NOTT-400	Juan H. GonzalezEstefan HUGO ALBERTO LARA GARCIA Pedro SanchezCamacho et al.	NEW JOURNAL OF CHEMISTRY	2015
45	Water steam effect during high CO ₂ chemisorption in lithium cuprate (Li ₂ CuO ₂) at moderate temperatures: Experimental and theoretical evidence	HUGO ALBERTO LARA GARCIA Brenda AlcantarVazquez HERIBERTO PFEIFFER PEREA et al.	RSC ADVANCES	2015
46	Removal of CO ₂ from CH ₄ and CO ₂ capture in the presence of H ₂ O vapour in NOTT-401	HUGO ALBERTO LARA GARCIA Maximiliano R. Gonzalez Juan H. GonzalezEstefan et al.	INORGANIC CHEMISTRY FRONTIERS	2015

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

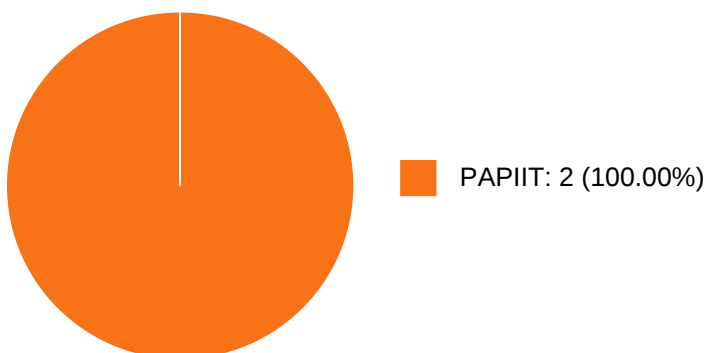


#	Título	Autores	Alcance	Año	ISBN
1	Room-Temperature Strong Coupling for CsPbBr ₃ Quantum Dots and Porous-Silicon Cavities: Cavity-detuning Control and Polariton Redundancy	SALVADOR ESCOBAR GUERRERO HUGO ALBERTO LARA GARCIA MARIA DEL ROCIO NAVA LARA et al.	Conferenc e Paper	2023	9781957171296
2	CO ₂ capture in lithium cuprate (Li ₂ CuO ₂) at low temperatures; Effect of the water vapour addition	HUGO ALBERTO LARA GARCIA HERIBERTO PFEIFFER PEREA	Conferenc e Paper	2015	9781510815490
3	CO ₂ capture in lithium cuprate (Li ₂ CuO ₂) at low temperatures; Effect of the water vapour addition	HUGO ALBERTO LARA GARCIA HERIBERTO PFEIFFER PEREA	Conferenc e Paper	2015	9781510815490

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	QD de perovskitas dobles (Cs ₂ AgB ₂ X ₆) con propiedades optoelectrónicas sintonizables para aplicaciones fotocatalíticas.	HUGO ALBERTO LARA GARCIA	Recursos PAPIIT	01-01-2021	31-12-2022
2	Ingeniería de bandas y fotofísica local de Perovskitas dobles	HUGO ALBERTO LARA GARCIA	Recursos PAPIIT	01-01-2023	31-12-2024



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PARTICIPACIÓN EN TESIS

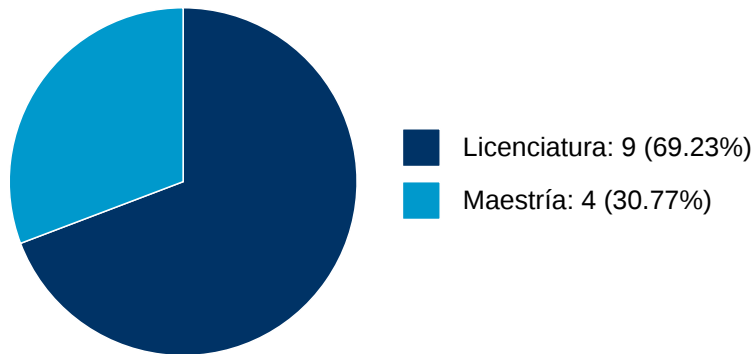
No se encuentran registros en la base de datos de TESIUNAM asociados a:

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	TEMAS SELECTOS DE OPTICA I	Facultad de Ciencias	12	2024-2
2	Licenciatura	LABORATORIO DE OPTICA	Facultad de Ciencias	18	2024-1
3	Licenciatura	LABORATORIO DE MECANICA	Facultad de Ciencias	24	2023-2
4	Maestría	MÉTODOS EXPERIMENTALES I (MATERIA CONDENSADA Y NANOCIENCIAS)	Instituto de Física	6	2023-1
5	Licenciatura	MECANICA ANALITICA	Facultad de Ciencias	14	2022-2
6	Licenciatura	FISICA CONTEMPORANEA	Facultad de Ciencias	29	2022-1
7	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	11	2021-2
8	Licenciatura	CIENCIA BASICA	Facultad de Ciencias	1	2021-2
9	Maestría	INTRODUCCIÓN A LA QUÍMICA DE MATERIALES	Instituto de Investigaciones en Materiales	11	2021-1
10	Licenciatura	FISICA CONTEMPORANEA	Facultad de Ciencias	25	2021-1
11	Maestría	INTRODUCCIÓN A LA QUÍMICA DE MATERIALES	Instituto de Investigaciones en Materiales	8	2020-2
12	Licenciatura	TEM.SELEC.DE FISICA D MATERIAL III	Facultad de Ciencias	3	2020-2
13	Maestría	TÉCNICAS ESPECTROSCÓPICAS Y TÉRMICAS	Instituto de Investigaciones en Materiales	2	2020-1



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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