



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



ALAN JOEL MIRALRIO PINEDA

Datos Generales

Nombre: ALAN JOEL MIRALRIO PINEDA

Máximo nivel de estudios: MAESTRÍA

Antigüedad académica en la UNAM: 5 años

Nombramientos

Último: PROFESOR ASIGNATURA B TP No Definitivo
Facultad de Ciencias
Desde 01-11-2016 hasta 31-07-2017

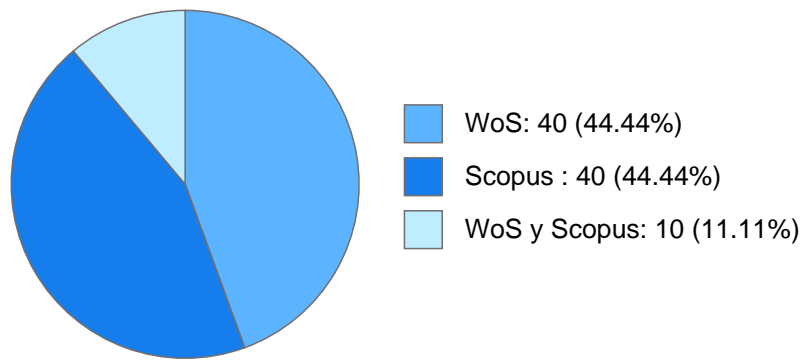
Estímulos, programas, premios y reconocimientos

SNI I 2018 - 2023

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Carbon monoxide sensing materials design using catalytic oxidation on MoS ₂ decorated with (ZnO) ₁₂ bubbles	CHRISTIAN ALEJANDRO CELAYA LOPEZ ANA KARINA CUENTAS GALLEGOS LUIS ENRIQUE SANORES CUEVAS et al.	Surfaces And Interfaces	2025
2	AI-assisted models to predict chemotherapy drugs modified with C ₆₀ fullerene derivatives	JONATHAN SIU LOONG ROBLES HERNANDEZ ROBERTO RENE SALCEDO PINTOS ALAN JOEL MIRALRIO PINEDA et al.	BEILSTEIN JOURNAL OF NANOTECHNOLOGY	2024
3	Enhanced water molecule sensitivity on defective WS ₂ monolayers through (ZnO) ₁₂ spherical nanocages decoration: A theoretical study	GERARDO JORGE VAZQUEZ FONSECA JOSÉ ANDRÉS GARCIA GONZALEZ ALAN JOEL MIRALRIO PINEDA et al.	JOURNAL OF MOLECULAR LIQUIDS	2024
4	Electrochemical and theoretical evaluation of loratadine as corrosion inhibitor for X65 steel in 1M HCl aqueous solution	ARACELI ESPINOZA VAZQUEZ ALAN JOEL MIRALRIO PINEDA FRANCISCO MIGUEL DE JESUS CASTRO MARTINEZ et al.	INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE	2024
5	Corrosion inhibition with a perezone-impregnated Mg/Al hydrotalcite coating in AS21 alloy	ARACELI ESPINOZA VAZQUEZ FRANCISCO JAVIER RODRIGUEZ GOMEZ ARACELI PEREZ VASQUEZ et al.	ELECTROCHIMICA ACTA	2023

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6	Electrochemical evaluation of Trasar trac 102 as a corrosion inhibitor on API 5L X65 steel and theoretical study	ARACELI ESPINOZA VAZQUEZ ALAN JOEL MIRALRIO PINEDA FRANCISCO MIGUEL DE JESUS CASTRO MARTINEZ et al.	JOURNAL OF ELECTROANALYTICAL CHEMISTRY	2023
7	Substitutional Coinage Metals as Promising Defects for Adsorption and Detection of Gases on MoS2 Monolayers: A Computational Approach	FRANCISCO MIGUEL DE JESUS CASTRO MARTINEZ ALAN JOEL MIRALRIO PINEDA Josue Gutierrez-Rodriguez et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2023
8	4-Phenylcoumarin (4-PC) Glucoside from Exostema caribaeum as Corrosion Inhibitor in 3% NaCl Saturated with CO2 in AISI 1018 Steel: Experimental and Theoretical Study	ARACELI ESPINOZA VAZQUEZ FRANCISCO JAVIER RODRIGUEZ GOMEZ IGNACIO ALEJANDRO FIGUEROA VARGAS et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2022
9	Corrosion inhibition of 1-benzyl-4-((benzyloxy)methyl)-1H-1,2,3-triazole (BBT) for C844 bronze in saline medium and theoretical study	ARACELI ESPINOZA VAZQUEZ FRANCISCO JAVIER RODRIGUEZ GOMEZ IGNACIO ALEJANDRO FIGUEROA VARGAS et al.	JOURNAL OF MOLECULAR STRUCTURE	2022
10	Imidazolate of 1-butyl-3-ethyl imidazole as corrosion inhibitor on API 5L X52 steel in NaCl saturated with CO2	ARACELI ESPINOZA VAZQUEZ FRANCISCO JAVIER RODRIGUEZ GOMEZ SOCORRO DEL CARMEN VALDEZ RODRIGUEZ et al.	JOURNAL OF MOLECULAR LIQUIDS	2022
11	Identifying the mechanistic insights into PbSeO3 decomposition, during milling, to give way to PbSe: An experimental and theoretical approach	ALAN JOEL MIRALRIO PINEDA Rojas-Chávez H. Cruz-Martínez H. et al.	COMPUTATIONAL MATERIALS SCIENCE	2022
12	A General Use QSAR-ARX Model to Predict the Corrosion Inhibition Efficiency of Drugs in Terms of Quantum Mechanical Descriptors and Experimental Comparison for Lidocaine	ARACELI ESPINOZA VAZQUEZ ALAN JOEL MIRALRIO PINEDA Beltran-Perez C. et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2022
13	Oriented-Attachment- And Defect-Dependent PbTe Quantum Dots Growth: Shape Transformations Supported by Experimental Insights and DFT Calculations	ALAN JOEL MIRALRIO PINEDA Rojas-Chávez H. Cruz-Martínez H. et al.	INORGANIC CHEMISTRY	2021
14	(?) ? Epicatechin gallate as a corrosion inhibitor for bronze in a saline medium and theoretical study	ARACELI ESPINOZA VAZQUEZ IGNACIO ALEJANDRO FIGUEROA VARGAS FRANCISCO JAVIER RODRIGUEZ GOMEZ et al.	JOURNAL OF MOLECULAR STRUCTURE	2021

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15	Corrosion inhibition assessment on API 5L X70 steel by preussomerin G immersed in saline and saline acetic	ARACELI ESPINOZA VAZQUEZ IGNACIO ALEJANDRO FIGUEROA VARGAS FRANCISCO JAVIER RODRIGUEZ GOMEZ et al.	JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY	2021
16	Inhibition of acid corrosion in API 5L X52 steel with 1,2,3-triazole derivatized from benzyl alcohol: Experimental and theoretical studies	RODRIGO GONZALEZ OLVERA IGNACIO ALEJANDRO FIGUEROA VARGAS FRANCISCO JAVIER RODRIGUEZ GOMEZ et al.	JOURNAL OF MOLECULAR STRUCTURE	2021
17	Small Transition-Metal Mixed Clusters as Activators of the C-O Bond. FenCum-CO (n plus m=6): A Theoretical Approach	PATRICIO RODRIGO ROSALES LIMON ALAN JOEL MIRALRIO PINEDA RODOLFO GOMEZ BALDERAS et al.	JOURNAL OF PHYSICAL CHEMISTRY A	2021
18	Needle- and cross-linked ZnO microstructures and their photocatalytic activity using experimental and DFT approach	ALAN JOEL MIRALRIO PINEDA Rojas-Chávez H. Hernández-Rodríguez Y.M. et al.	MATERIALS LETTERS	2021
19	Structures, stabilities and aromatic properties of endohedrally transition metal doped boron clusters M@B-22, M = Sc and Ti: a theoretical study	CHRISTIAN ALEJANDRO CELAYA LOPEZ FERNANDO BUENDIA ZAMUDIO ALAN JOEL MIRALRIO PINEDA et al.	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2020
20	Characterization of Magnetic Series of Iron-Carbon Clusters FenCO,+/- 1 (n <= 13)	PATRICIO RODRIGO ROSALES LIMON ALAN JOEL MIRALRIO PINEDA FRANCISCO MIGUEL DE JESUS CASTRO MARTINEZ	JOURNAL OF PHYSICAL CHEMISTRY C	2020
21	Fluconazole and fragments as corrosion inhibitors of API 5L X52 steel immersed in 1M HCl	ARACELI ESPINOZA VAZQUEZ FRANCISCO JAVIER RODRIGUEZ GOMEZ RODRIGO GONZALEZ OLVERA et al.	CORROSION SCIENCE	2020
22	Chemical interaction between nitrogen-doped graphene defects and a copper (111) surface: Effects on water molecule adsorption	ALAN JOEL MIRALRIO PINEDA FRANCISCO JAVIER MARTINEZ FARIAS EDUARDO RANGEL CORTES et al.	APPLIED SURFACE SCIENCE	2020
23	Plant extracts as green corrosion inhibitors for different metal surfaces and corrosive media: A review	ALAN JOEL MIRALRIO PINEDA ARACELI ESPINOZA VAZQUEZ	Processes	2020
24	Carbon Monoxide Activation on Small Iron Magnetic Cluster Surfaces, FenCO, n=1-20. A Theoretical Approach	PATRICIO RODRIGO ROSALES LIMON ALAN JOEL MIRALRIO PINEDA RODOLFO GOMEZ BALDERAS et al.	JOURNAL OF PHYSICAL CHEMISTRY A	2020
25	M@C-50 as Higher Intermediates towards Large Endohedral Metallofullerenes: Theoretical Characterization, Aromatic and Bonding Properties from Relativistic DFT Calculations	ALAN JOEL MIRALRIO PINEDA LUIS ENRIQUE SANSORES CUEVAS Muñoz-Castro A. et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2019

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26	Mycophenolic acid as a corrosion inhibitor of carbon steel in 3% wt. NaCl solution. An experimental and theoretical study	FRANCISCO JAVIER RODRIGUEZ GOMEZ ARACELI ESPINOZA VAZQUEZ PAULINA DEL VALLE PEREZ et al.	JOURNAL OF MOLECULAR STRUCTURE	2019
27	Activation of MoS ₂ monolayers by substitutional copper and silver atoms embedded in sulfur vacancies: A theoretical study	ALAN JOEL MIRALRIO PINEDA EDUARDO RANGEL CORTES Castro M.	APPLIED SURFACE SCIENCE	2019
28	Organometallic complexes of carbon nanotori	ROXANA MITZAYE DEL CASTILLO VAZQUEZ ALAN JOEL MIRALRIO PINEDA ROBERTO RENE SALCEDO PINTOS et al.	JOURNAL OF MOLECULAR MODELING	2019
29	Intermediates for Larger Endohedral Metallofullerenes: Theoretical Characterization of M@C-44 Species	ALAN JOEL MIRALRIO PINEDA LUIS ENRIQUE SANORES CUEVAS Muñoz-Castro A. et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2018
30	Catalytic Reduction of Nitrous Oxide by the Low-Symmetry Pt ₈ Cluster	ALAN JOEL MIRALRIO PINEDA FRANCISCO MIGUEL DE JESUS CASTRO MARTINEZ Hernández E. et al.	JOURNAL OF PHYSICAL CHEMISTRY A	2018
31	Adsorption and dissociation of carbon monoxide on iron and iron-carbon clusters: Fe _n +?2CO and Fe _n C _n +?2CO, n=?4 and 7. A theoretical study	PATRICIO RODRIGO ROSALES LIMON ALAN JOEL MIRALRIO PINEDA FRANCISCO MIGUEL DE JESUS CASTRO MARTINEZ	COMPUTATIONAL AND THEORETICAL CHEMISTRY	2018
32	Electronic properties and enhanced reactivity of MoS ₂ monolayers with substitutional gold atoms embedded into sulfur vacancies	ALAN JOEL MIRALRIO PINEDA FRANCISCO MIGUEL DE JESUS CASTRO MARTINEZ Rangel Cortes E.	APPLIED SURFACE SCIENCE	2018
33	C ₅₀ C ₁₁₀ , a planar aromatic fullerene. Computational study of ¹³ C-NMR chemical shift anisotropy patterns and aromatic properties	ALAN JOEL MIRALRIO PINEDA LUIS ENRIQUE SANORES CUEVAS King B. et al.	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2018
34	Structures, stabilities, and electronic properties of fullerene C-36 with endohedral atomic Sc, Y, and La: A dispersion-corrected DFT study	ALAN JOEL MIRALRIO PINEDA Enrique Sansores, L.	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY	2017
35	Complexes of graphene nanoribbons with porphyrins and metal-encapsulated C ₂₈ as molecular rectifiers: a theoretical study	CARLOS FILIBERTO MONTIEL TINAJERO ALAN JOEL MIRALRIO PINEDA LUIS ENRIQUE SANORES CUEVAS et al.	MOLECULAR SIMULATION	2017
36	Weak bonds between molecular tweezers and their guests	ALAN JOEL MIRALRIO PINEDA ROXANA MITZAYE DEL CASTILLO VAZQUEZ ROBERTO RENE SALCEDO PINTOS et al.	COMPUTATIONAL AND THEORETICAL CHEMISTRY	2017

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37	Theoretical study of the stability and properties of magic numbers ($m = 5, n = 2$) and ($m = 6, n = 3$) of bimetallic bismuth-copper nanoclusters; Bim Cun	ALAN JOEL MIRALRIO PINEDA LUIS ENRIQUE SANORES CUEVAS FRANCISCO JAVIER MARTINEZ FARIAS et al.	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY	2017
38	Influence of TCNQ acceptor on optical and electrical properties of tetrasubstituted allenes films fabricated by vacuum thermal evaporation	ALAN JOEL MIRALRIO PINEDA Sanchez-Vergara, M. E. Leyva-Esqueda, E. A. et al.	JOURNAL OF MATERIALS SCIENCE-MATER IALS IN ELECTRONICS	2016
39	On the search of stable, aromatic and ionic endohedral compounds of C ₂₈ : A theoretical study	ALAN JOEL MIRALRIO PINEDA LUIS ENRIQUE SANORES CUEVAS	COMPUTATIONA L AND THEORETICAL CHEMISTRY	2016
40	Electronic structure and stability of binary and ternary aluminum-bismuth-nitrogen nanoclusters	ALAN JOEL MIRALRIO PINEDA LUIS ENRIQUE SANORES CUEVAS	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY	2014
41	Theoretical study of the electronic structure of gold clusters over graphene	ALAN JOEL MIRALRIO PINEDA LUIS ENRIQUE SANORES CUEVAS	Abstracts Of Papers Of The American Chemical Society	2013



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PARTICIPACIÓN EN TESIS

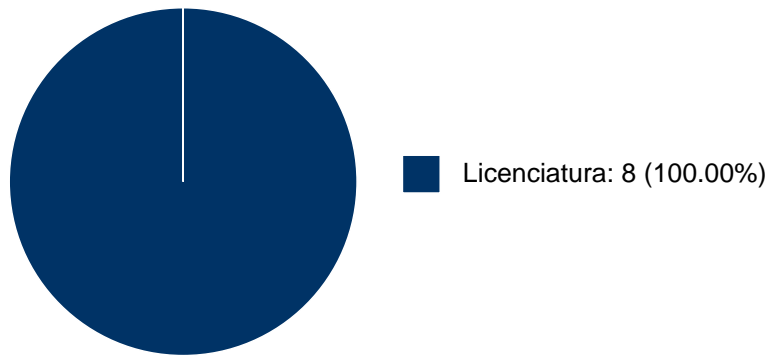
No se encuentran registros en la base de datos de TESIUNAM asociados a:

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	FENOMENOS COLECTIVOS	Facultad de Ciencias	20	2017-2
2	Licenciatura	FISICA	Facultad de Ciencias	24	2017-1
3	Licenciatura	FISICA	Facultad de Ciencias	14	2016-2
4	Licenciatura	FISICA	Facultad de Ciencias	19	2016-1
5	Licenciatura	FISICA	Facultad de Ciencias	15	2015-2
6	Licenciatura	FISICA	Facultad de Ciencias	22	2014-1
7	Licenciatura	FISICA	Facultad de Ciencias	21	2013-1
8	Licenciatura	FISICA	Facultad de Ciencias	23	2012-1



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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	2008-2026
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2026
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	2008-2026
9	Documentos Indexados	Thomson Reuters	WoS	2008-2026
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2026
11	Patentes	IMPI	SIGA	2008-2024