



JOEL VARGAS ORTEGA

Datos Generales

Nombre: JOEL VARGAS ORTEGA

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 11 años

Nombramientos

Vigente: INVESTIGADOR TITULAR B TC Definitivo
Instituto de Investigaciones en Materiales
Desde 01-10-2022

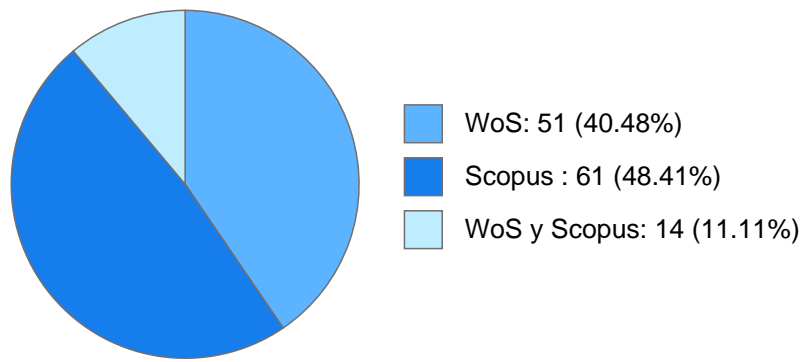
Estímulos, programas, premios y reconocimientos

SNI II 2020 - 2024
SNI I 2014 - 2019
PRIDE C 2019 - 2024
PRIDE B 2019
EQUIVALENCIA PRIDE B 2014 - 2019

JOEL VARGAS ORTEGA

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Sorption Behavior of Azo Dye Congo Red onto Activated Biochar from Haematoxylum campechianum Waste: Gradient Boosting Machine Learning-Assisted Bayesian Optimization for Improved Adsorption Process	MOHAMED ABATAL JOEL VARGAS ORTEGA Gamboa D.M.P. et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2024
2	Synthesis and Gas Permeation Properties of Functionalized Norbornene-based Polymers	JOSE ALEJANDRO ONCHI RESENDIZ CARLOS DANIEL CORONA GARCIA ARLETTE ARIZBE SANTIAGO DE LA CRUZ et al.	CURRENT ORGANIC CHEMISTRY	2024
3	Deep learning artificial neural network framework to optimize the adsorption capacity of 3-nitrophenol using carbonaceous material obtained from biomass waste	MOHAMED ABATAL JOEL VARGAS ORTEGA Tariq R. et al.	SCIENTIFIC REPORTS	2024
4	Correction to: Comparison of Heavy Metals Removal from Aqueous Solution by Moringa oleifera Leaves and Seeds (Coatings, (2021), 11, 5, (508), 10.3390/coatings11050508)	MOHAMED ABATAL JOEL VARGAS ORTEGA Olguin M.T. et al.	Coatings	2024

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5	Green practices in wastewater treatment: Upcycling avocado waste for enhanced water sanitation. Case study: WWTP in San Francisco Pichátaro, Michoacán	SAYRA LISSETTE OROZCO CERROS LUIS BERNARDO LOPEZ SOSA JOEL VARGAS ORTEGA et al.	Results in Engineering	2024
6	Low-cost seaweed biomass treatment with formaldehyde for cationic dyes removal from aqueous solutions	JOEL VARGAS ORTEGA ISMELI ALFONSO LOPEZ D. M. Polanco-Gamboa et al.	ADSORPTION SCIENCE & TECHNOLOGY	2024
7	An Overview on the Identification and Characterization of Cu-Rich Second Phases in Casting Al Alloys	TANIA ELIZABETH SOTO GUZMAN ISMELI ALFONSO LOPEZ FEDERICO GONZALEZ GARCIA et al.	INTERNATIONAL JOURNAL OF METALCASTING	2023
8	Synthesis, Characterization, and Proton Conductivity of Muconic Acid-Based Polyamides Bearing Sulfonated Moieties	JOSE ALEJANDRO ONCHI RESENDIZ ARLETTE ARIZBE SANTIAGO DE LA CRUZ TANIA ELIZABETH SOTO GUZMAN et al.	POLYMERS	2023
9	An Overview of the Interactions Between Reinforcements and Al Matrices with Si, Cu And Mg as Alloying Elements in Aluminum Matrix Composites: Case of Oxide Reinforcements	IGNACIO ALEJANDRO FIGUEROA VARGAS JOSE GONZALO GONZALEZ REYES JOEL VARGAS ORTEGA et al.	MATERIALS RESEARCH-IBER O-AMERICAN JOURNAL OF MATERIALS	2022
10	Pitahaya Fruit (<i>Hylocereus</i> spp.) Peels Evaluation for Removal of Pb(II), Cd(II), Co(II), and Ni(II) from the Waters	JOEL VARGAS ORTEGA ISMELI ALFONSO LOPEZ Abatal M. et al.	SUSTAINABILITY	2022
11	Synthesis and Characterization of Thiol-Functionalized Polynorbornene Dicarboximides for Heavy Metal Adsorption from Aqueous Solution	JOSE ALEJANDRO ONCHI RESENDIZ CARLOS DANIEL CORONA GARCIA ARLETTE ARIZBE SANTIAGO DE LA CRUZ et al.	POLYMERS	2022
12	Particularities of the Formation and Modification of Si and Mg(2)si as Second Phases in Casting Al Alloys: Use of Shape Descriptors and Fractal Dimension	MA. CECILIA AGUILAR ZACARIAS IGNACIO ALEJANDRO FIGUEROA VARGAS JOEL VARGAS ORTEGA et al.	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	2022
13	Effect of alkali treatment on the removal of Co(II) ions by <i>Leucaena leucephala</i> biomass	JOEL VARGAS ORTEGA Abatal M. Lima E.C. et al.	JOURNAL OF MOLECULAR LIQUIDS	2022
14	Analysis of the interactions between nonoxide reinforcements and Al-Si-Cu-Mg matrices	ISMELI ALFONSO LOPEZ FEDERICO GONZALEZ GARCIA TANIA ELIZABETH SOTO GUZMAN et al.	REVIEWS ON ADVANCED MATERIALS SCIENCE	2022
15	Evaluation of a Cost-Effective Technology for the Experimental Investigation of Microflows With Water and Liquid Metal	JORGE GALVAN BOCHELEN ALBERTO BELTRAN MORALES JOEL VARGAS ORTEGA et al.	JOURNAL OF FLUIDS ENGINEERING-T RANSACTIONS OF THE ASME	2021

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16	Synthesis and Characterization of Partially Renewable Oleic Acid-Based Ionomers for Proton Exchange Membranes	ARLETTE ARIZBE SANTIAGO DE LA CRUZ ISMELI ALFONSO LOPEZ JOEL VARGAS ORTEGA et al.	POLYMERS	2021
17	Mathematical and finite element analysis estimations of the reinforcement effect on Young's modulus of polymer membrane/montmorillonite clay nanocomposites	ARLETTE ARIZBE SANTIAGO DE LA CRUZ JOEL VARGAS ORTEGA CARLOS DANIEL CORONA GARCIA et al.	POLYMER COMPOSITES	2021
18	Physicochemical Characterization of Natural Fibers Obtained from Seed Pods of Ceiba aesculifolia	JOEL VARGAS ORTEGA Ulises Carranza-Nunez Salomon Ramiro Vasquez-Garcia et al.	Bioresources	2021
19	Comparison of Heavy Metals Removal from Aqueous Solution by Moringa oleifera Leaves and Seeds	JOEL VARGAS ORTEGA Mohamed Abatal M. T. Olguin et al.	Coatings	2021
20	Application of the fractal model to estimate the diffusion and solubility of gases in non-porous membranes based on aromatic polynorbornene dicarboximides	JOEL VARGAS ORTEGA ARLETTE ARIZBE SANTIAGO DE LA CRUZ JOSE MANUEL BURELO TORRES et al.	JOURNAL OF POLYMER RESEARCH	2021
21	Synthesis, characterization, and assessment of novel sulfonated polynorbornene dicarboximides as adsorbents for the removal of heavy metals from water	CARLOS DANIEL CORONA GARCIA ARLETTE ARIZBE SANTIAGO DE LA CRUZ MOHAMED ABATAL et al.	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2021
22	Assessment of Leucaena leucocephala as bio-based adsorbent for the removal of Pb ²⁺ , Cd ²⁺ and Ni ²⁺ from water	JOEL VARGAS ORTEGA C. A. Cima-Mukul M. T. Olguin et al.	DESALINATION AND WATER TREATMENT	2020
23	Eco-Efficient Biosorbent Based on Leucaena leucocephala Residues for the Simultaneous Removal of Pb(II) and Cd(II) Ions from Water System: Sorption and Mechanism	JOEL VARGAS ORTEGA ARLETTE ARIZBE SANTIAGO DE LA CRUZ Cimá-Mukul C.A. et al.	BIOINORGANIC CHEMISTRY AND APPLICATIONS	2019
24	Synthesis and Gas Permeability of Chemically Cross-Linked Polynorbornene Dicarboximides Bearing Fluorinated Moieties	ARLETTE ARIZBE SANTIAGO DE LA CRUZ SALVADOR LOPEZ MORALES JOEL VARGAS ORTEGA et al.	MACROMOLECULAR CHEMISTRY AND PHYSICS	2019
25	Sorption of Pb(II) from Aqueous Solutions by Acid-Modified Clinoptilolite-Rich Tuffs with Different Si/Al Ratios	AMERICA ROSALBA VAZQUEZ OLMOS JOEL VARGAS ORTEGA Mohamed Abatal et al.	APPLIED SCIENCES-BASEL	2019

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26	Synthesis of Unsaturated Esters by Cross-Metathesis of Terpenes and Natural Rubber Using Ru-Alkylidene Catalysts	ARACELI MARTINEZ PONCE MOUKHAMED TLENKOPATCHEV SELENA GUTIERREZ FLORES et al.	CURRENT ORGANIC CHEMISTRY	2019
27	Effect of the Al/CNT interlayer on the tensile elastic modulus of Al matrix composites with random dispersion of CNTs	LISETH CAROLINA PEREZ ALVARADO JOEL VARGAS ORTEGA ALBERTO BELTRAN MORALES et al.	JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING	2018
28	Synthesis, characterization, and heavy metal adsorption properties of sulfonated aromatic polyamides	ARLETTE ARIZBE SANTIAGO DE LA CRUZ ALEJANDRO IBARRA PALOS ISMELI ALFONSO LOPEZ et al.	HIGH PERFORMANCE POLYMERS	2018
29	Supporting small-scale dairy plants in selecting market opportunities and milk payment systems using a spreadsheet model	JOEL VARGAS ORTEGA Fuentes E. Bogue J. et al.	COMPUTERS AND ELECTRONICS IN AGRICULTURE	2016
30	Synthesis and gas transport properties of new polynorbornene dicarboximides bearing trifluoromethyl isomer moieties	JOEL VARGAS ORTEGA Cruz-Morales, Jorge A. Santiago, Arlette A. et al.	HIGH PERFORMANCE POLYMERS	2016
31	Public policies affecting the development of urban agriculture in Mexico City	JOEL VARGAS ORTEGA Losada H. Cortés J. et al.	Livestock Research for Rural Development	2015
32	FEA evaluation of the Al ₄ C ₃ formation effect on the Young's modulus of carbon nanotube reinforced aluminum matrix composites	ISMELI ALFONSO LOPEZ ORACIO NAVARRO CHAVEZ JOEL VARGAS ORTEGA et al.	COMPOSITE STRUCTURES	2015
33	Numerical evaluation of a PEM fuel cell with conventional flow fields adapted to tubular plates	JOEL VARGAS ORTEGA JOSEPH SEBASTIAN PATHIYAMATTOM Sierra, J. M. et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2014
34	In vitro methane production in the incubation of mixtures of grasses and legumes from Colombian high-altitude areas [Producción de metano in vitro en mezcla de gramíneas-leguminosas del trópico alto Colombiano]	JOEL VARGAS ORTEGA Pabón M. Carulla J.	Archivos De Zootecnia	2014
35	The Solubility of Hydrocarbon Gases in Glassy Polymers: Fractal Modeling	Jorge A. Cruz Morales JOEL VARGAS ORTEGA MOUKHAMED TLENKOPATCHEV et al.	INTERNATIONAL JOURNAL OF POLYMER SCIENCE	2013

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36	Gas transport properties of hydrogenated and fluorinated polynorbornene dicarboximides	JOEL VARGAS ORTEGA Arlette A. Santiago Jorge A. Cruz Morales et al.	MACROMOLECULAR CHEMISTRY AND PHYSICS	2013
37	Effect of exogenous fibrolytic enzymes on the carcass characteristics and performance of grain-finished steers	JOEL VARGAS ORTEGA FRANCISCO ALEJANDRO CASTREJON PINEDA Mendoza, G. D. et al.	ANIMAL NUTRITION AND FEED TECHNOLOGY	2013
38	Effect and enzyme activity of <i>Pleurotus ostreatus</i> on cell wall of barley straw [Efecto y actividad enzimática de <i>Pleurotus ostreatus</i> en pared celular de rastrojo de cebada]	JOEL VARGAS ORTEGA Luna L. Meneses M. et al.	Livestock Research for Rural Development	2013
39	The experimental validation of a transient power electronic building block (PEBB) mathematical model	JOEL VARGAS ORTEGA Dilay E. Ordonez J.C. et al.	APPLIED THERMAL ENGINEERING	2013
40	Ion-exchange membranes based on polynorbornenes with fluorinated imide side chain groups	JOEL VARGAS ORTEGA MOUKHAMED TLENKOPATCHEV Santiago A.A. et al.	International Journal of Chemical Engineering	2012
41	In vitro gas production from vegetable waste used to feed dairy cows [Producción de gas in vitro de desechos de verduras usados para alimentar vacas lecheras]	JOEL VARGAS ORTEGA Almaraz I. Losada H. et al.	Livestock Research for Rural Development	2012
42	Characterization of rabbit production in small scale in the area of the volcanoes near Mexico City [Caracterización de la producción de conejos de pequeña escala en la zona de los volcanes próxima a la ciudad de México]	JACINTO CORTES PEREZ JOEL VARGAS ORTEGA Rivera J. et al.	Livestock Research for Rural Development	2011
43	Performance and carcass characteristics of goats fed sorghum, straw and ensiled pig manure [Comportamiento y características de la canal de caprinos alimentados con sorgo, rastrojo y ensilado de sólidos de excretas porcinas]	JOEL VARGAS ORTEGA MARIA SALUD RUBIO LOZANO FRANCISCO ALEJANDRO CASTREJON PINEDA et al.	Livestock Research for Rural Development	2011
44	Typification of the cattle farms in the mountain feet of los ríos and cotopaxi provinces of the republic of Ecuador	JOEL VARGAS ORTEGA Benítez D. Torres V. et al.	CUBAN J AGR SCI	2011
45	Synthesis and ionic transport of sulfonated ring-opened polynorbornene based copolymers	Arlette A. Santiago JOEL VARGAS ORTEGA MODESTO JAVIER CRUZ GOMEZ et al.	Polymer	2011

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46	Polynorbornene with Pentafluorophenyl Imide Side Chain Groups: Synthesis and Sulfonation	Arlette A. Santiago JOEL VARGAS ORTEGA SERGUEI FOMINE et al.	JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY	2010
47	Gas transport in membranes based on polynorbornenes with fluorinated dicarboximide side moieties	JOEL VARGAS ORTEGA Arlette A. Santiago MOUKHAMED TLENKOPATCHEV et al.	JOURNAL OF MEMBRANE SCIENCE	2010
48	GROWTH-INHIBITING EXTRACELLULAR MATRIX PROTEINS ALSO INHIBIT ELECTRICAL ACTIVITY BY REDUCING CALCIUM AND INCREASING POTASSIUM CONDUCTANCES	JOEL VARGAS ORTEGA FRANCISCO RAFAEL FERNANDEZ DE MIGUEL	Neuroscience	2009
49	The effect of fluorine atoms on gas transport properties of new polynorbornene dicarboximides	JOEL VARGAS ORTEGA ARACELI MARTINEZ PONCE Arlette A. Santiago et al.	JOURNAL OF FLUORINE CHEMISTRY	2009
50	Synthesis of new fluorine containing ring-opened polynorbornene dicarboximides using ruthenium alkylidene catalysts	JOEL VARGAS ORTEGA ARACELI MARTINEZ PONCE Arlette A. Santiago et al.	POLYMER BULLETIN	2008
51	Metathesis of halogenated olefins. A computational study of ruthenium alkylidene mediated reaction pathways	SERGUEI FOMINE JOEL VARGAS ORTEGA MOUKHAMED TLENKOPATCHEV	JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL	2007
52	Gas transport and ionic transport in membranes based on polynorbornenes with functionalized imide side groups	JOEL VARGAS ORTEGA MOUKHAMED TLENKOPATCHEV RUBEN LUIS GAVIÑO RAMIREZ et al.	Macromolecules	2007
53	Synthesis and ring-opening metathesis polymerization of new oxanorbornene dicarboximides with fluorine pendant groups	JOEL VARGAS ORTEGA RUBEN LUIS GAVIÑO RAMIREZ MOUKHAMED TLENKOPATCHEV et al.	MACROMOLECULAR CHEMISTRY AND PHYSICS	2007
54	Difluoroethylene as a chain transfer agent during ring-opening metathesis polymerization (ROMP) of norbornene by a ruthenium alkylidene complex: A computational study	SERGUEI FOMINE JOEL VARGAS ORTEGA MOUKHAMED TLENKOPATCHEV	JOURNAL OF ORGANOMETALLIC CHEMISTRY	2006
55	Use of forage groundnut (Arachis pintoi) and sugar cane in the diet of Sahiwal x Holstein calves [Uso de maní forrajero (Arachis pintoi) y caña de azúcar en la alimentación de terneras Sahiwal x Holstein]	JOEL VARGAS ORTEGA Avellaneda-Cevallos J. Cansing P. et al.	Livestock Research for Rural Development	2006

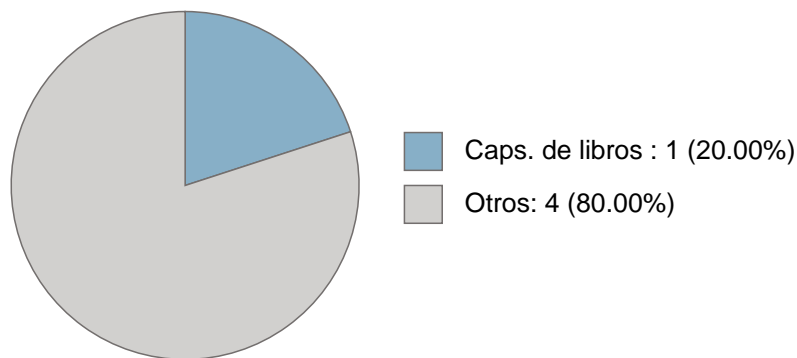
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56	Density functional theory study of ruthenium alkylidene mediated cross-metathesis reaction pathways between cycloolefins and halogenated olefins	SERGUEI FOMINE JOEL VARGAS ORTEGA MOUKHAMED TLENKOPATCHEV	Organometallics	2005
57	Computational modeling of ruthenium alkylidene mediated olefin metathesis: A DFT study of reaction pathways for the ring-opening cross-metathesis of norbornene with olefins	SERGUEI FOMINE JOEL VARGAS ORTEGA MOUKHAMED TLENKOPATCHEV	JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL	2005
58	Gas sorption in new fluorine containing polynorbornenes with imide side chain groups	MOUKHAMED TLENKOPATCHEV JOEL VARGAS ORTEGA MARCO ANTONIO ALMARAZ GIRON et al.	Macromolecules	2005
59	Ring-opening metathesis polymerization (ROMP) of N-cycloalkyl-7-oxanorbornene dicarboximides by well-defined ruthenium initiators	JOEL VARGAS ORTEGA ERNESTO SANCHEZ COLIN MOUKHAMED TLENKOPATCHEV	EUROPEAN POLYMER JOURNAL	2004
60	Molecular modeling of metathesis degradation of polyalkenamers: 1. Degradation of polynorbornene via cross-metathesis with linear olefins	JOEL VARGAS ORTEGA SERGUEI FOMINE MOUKHAMED TLENKOPATCHEV	POLYMER DEGRADATION AND STABILITY	2004
61	Gas transport in polymers prepared via metathesis copolymerization of exo-N-phenyl-7-oxanorbornene-5,6-dicarboximide and norbornene	MOUKHAMED TLENKOPATCHEV JOEL VARGAS ORTEGA López-González M.D.M. et al.	Macromolecules	2003

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

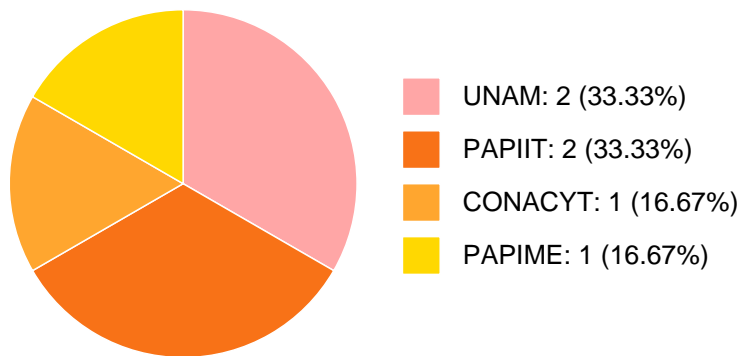


#	Título	Autores	Alcance	Año	ISBN
1	Sustainable alkaline membrane fuel cell (SAMFC)	JOEL VARGAS ORTEGA Raimundo R.C. Balmant W. et al.	Conferenc e Paper	2018	9780791851418
2	Research on polymer membranes and teaching performed in UNAM campus Morelia	JOEL VARGAS ORTEGA	Capítulo de un Libro	2016	9783319453156
3	Comprehensive system-level thermal modeling of all-electric ships: Integration of SMCS and vemESRDC	JOEL VARGAS ORTEGA Yang S. Ordonez J.C. et al.	Conferenc e Paper	2015	9781479918577
4	Development and implementation of a dynamic vapor compression refrigeration model into vemESRDC ship thermal management tool	JOEL VARGAS ORTEGA Yang S. Nunes T. et al.	Conferenc e Paper	2015	9781479918577
5	Thermal management aspects of all-electric ships	JOEL VARGAS ORTEGA Ordonez J.C. Rivera A. et al.	Conferenc e Paper	2013	9781467352437

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Incorporación de Materias primas renovables en el desarrollo de nuevos polielectrolitos para celdas de combustible tipo PEM.	JOEL VARGAS ORTEGA	Recursos CONACYT	31-03-2015	30-03-2018
2	Síntesis de materiales poliméricos para aplicaciones ambientales.	JOEL VARGAS ORTEGA	Presupuesto de la UNAM asignado a la Dependencia	01-01-2018	31-12-2021
3	Desarrollo de nuevos polinorbornenos iónicos vía ROMP para la adsorción de iones metálicos pesados.	JOEL VARGAS ORTEGA	Recursos PAPIIT	01-01-2017	31-12-2021
4	Temas Selectos de la Ciencia de Materiales y la Nanotecnología para el Fortalecimiento de la Licenciatura en Ciencia de Materiales Sustentables, ENES Morelia.	JOEL VARGAS ORTEGA	Recursos PAPIIME	01-01-2020	05-11-2021
5	Síntesis y caracterización de nuevas polinorbornén dicarboximidias con grupos tiol y sulfonilo para la captura de iones metálicos pesados	JOEL VARGAS ORTEGA	Recursos PAPIIT	01-01-2022	31-12-2024



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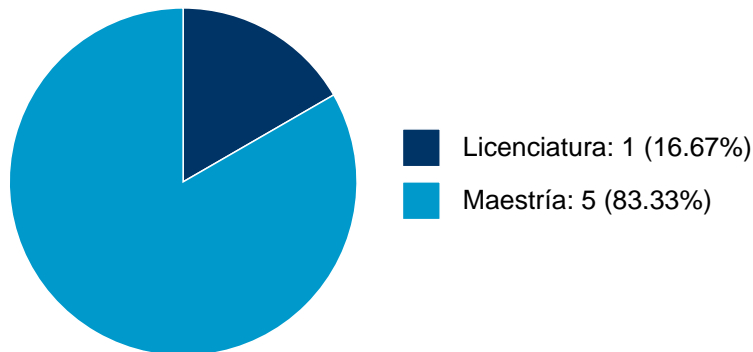
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6	Síntesis de materiales poliméricos para aplicaciones ambientales, 2023.	JOEL VARGAS ORTEGA	Presupuesto de la UNAM asignado a la Dependencia	01-01-2022	31-12-2023
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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	"Síntesis y caracterización de nuevas polinorbornén dicarboximidias funcionalizadas con grupos tiol para la adsorción de iones metálicos pesados"	Tesis de Maestría	JOEL VARGAS ORTEGA,	Onchi Resendiz, José Alejandro,	Instituto de Investigaciones en Materiales,	2022
2	Síntesis, caracterización y propiedades de intercambio iónico de nuevas poliamidas sulfonadas	Tesis de Maestría	JOEL VARGAS ORTEGA,	Corona García, Carlos Daniel,	Instituto de Investigaciones en Materiales,	2020
3	Síntesis y caracterización de nuevas polinorbornén dicarboximidias sulfonadas para la adsorción de iones metálicos pesados	Tesis de Maestría	JOEL VARGAS ORTEGA,	Ruiz Vázquez, Isabel,	Instituto de Investigaciones en Materiales,	2019
4	Síntesis y caracterización de un polinorborneno funcionalizado con grupos diaril éter sulfonados para intercambio iónico	Tesis de Licenciatura	JOEL VARGAS ORTEGA,	Onchi Resendiz, José Alejandro,	Instituto de Investigaciones en Materiales,	2019



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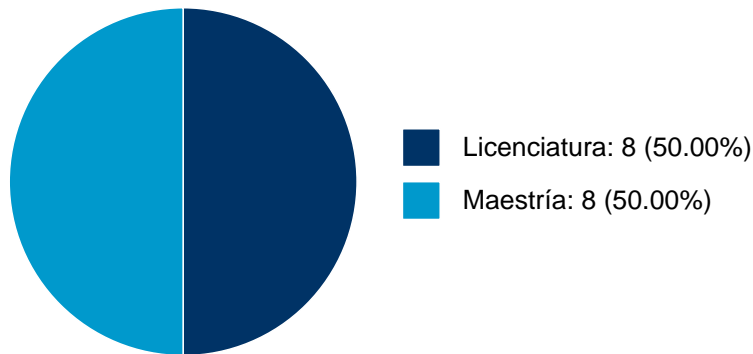
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5	Síntesis y propiedades de transporte de gases de nuevas polinorbornén dicarboximidias conteniendo substituyentes aromáticos	Tesis de Maestría	JOEL VARGAS ORTEGA,	Peñaloza Vargas, Karen Alicia,	Instituto de Investigaciones en Materiales,	2019
6	Síntesis y permeabilidad de gases en polinorbornen imidas entrecruzadas conteniendo grupos fluorados	Tesis de Maestría	JOEL VARGAS ORTEGA,	Aranda Suárez, Ivette,	Instituto de Investigaciones en Materiales,	2018

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	TEMAS SELECTOS DE MATERIALES POLIMÉRICOS QUÍMICA DE PROCESOS POLIMÉRICOS	Instituto de Investigaciones en Materiales	1	2024-2
2	Maestría	TEMAS SELECTOS DE MATERIALES POLIMÉRICOS QUÍMICA DE PROCESOS POLIMÉRICOS	Instituto de Investigaciones en Materiales	1	2024-1
3	Licenciatura	TEMAS SELEC.DE CIENCIA DE MATERIAL	Escuela Nacional de Estudios Superiores, Unidad Morelia, Michoacán	6	2023-1
4	Licenciatura	TEMAS SELEC.DE CIENCIA DE MATERIAL	Escuela Nacional de Estudios Superiores, Unidad Morelia, Michoacán	1	2022-1
5	Maestría	TEMAS SELECTOS DE MATERIALES POLIMÉRICOS QUIMICA DE PROCESOS POLIMERICOS	Instituto de Investigaciones en Materiales	1	2020-2
6	Licenciatura	TEMAS SELEC.DE CIENCIA DE MATERIAL	Escuela Nacional de Estudios Superiores, Unidad Morelia, Michoacán	7	2020-1
7	Licenciatura	TEMAS SELEC.DE CIENCIA DE MATERIAL	Escuela Nacional de Estudios Superiores, Unidad Morelia, Michoacán	1	2019-1

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8	Maestría	TEMAS SELECTOS DE POLIMEROS,QUIMICA DE PROCESOS POLIMERICOS	Instituto de Investigaciones en Materiales	1	2018-2
9	Licenciatura	TEMAS SELEC.DE CIENCIA DE MATERIAL	Escuela Nacional de Estudios Superiores, Unidad Morelia, Michoacán	3	2018-1
10	Maestría	SINTESIS DE POLIMEROS	Instituto de Investigaciones en Materiales	3	2018-1
11	Maestría	TEMAS SELECTOS DE POLÍMEROS QUIMICA DE PROCESOS POLIMERICOS	Instituto de Investigaciones en Materiales	2	2017-2
12	Licenciatura	QUIMICA ORGANICA-17150	Escuela Nacional de Estudios Superiores, Unidad Morelia, Michoacán	23	2016-2
13	Maestría	SINTESIS DE POLIMEROS	Instituto de Investigaciones en Materiales	2	2016-2
14	Maestría	TEMAS SELECTOS DE POLIMEROS	Instituto de Investigaciones en Materiales	2	2016-1
15	Licenciatura	QUIMICA ORGANICA	Escuela Nacional de Estudios Superiores, Unidad Morelia, Michoacán	16	2015-2
16	Licenciatura	QUIMICA GENERAL	Escuela Nacional de Estudios Superiores, Unidad Morelia, Michoacán	16	2015-1



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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