



## **ERIC MAURICIO RIVERA MUÑOZ**

### **Datos Generales**

**Nombre:** ERIC MAURICIO RIVERA MUÑOZ

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 30 años

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### **Nombramientos**

**Vigente:** INVESTIGADOR TITULAR C TC Definitivo  
Centro de Física Aplicada y Tecnología Avanzada  
Desde 16-06-2019

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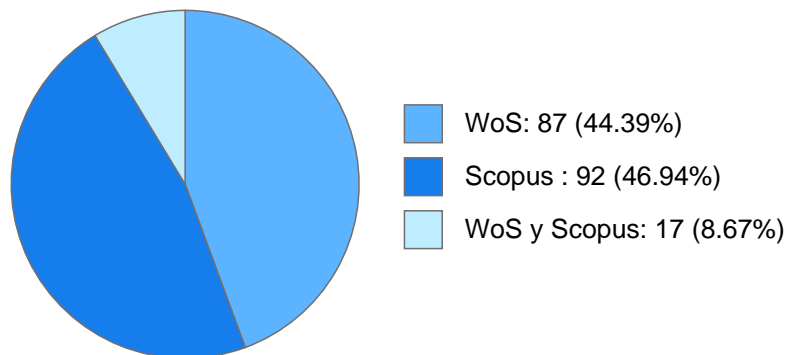
### **Estímulos, programas, premios y reconocimientos**

SNI III 2017 - VIGENTE  
SNI II 2013 - 2016  
SNI I - 2012  
PRIDE D 2016 - 2024  
PRIDE C - 2016  
PRIDE B 2008

## ERIC MAURICIO RIVERA MUÑOZ

### DOCUMENTOS EN REVISTAS

#### Histórico de Documentos



#	Título	Autores	Revista	Año
1	Synthesis and Characterization of NiWS2/MWCNT Nanohybrids	ERIC MAURICIO RIVERA MUÑOZ GABRIEL ALONSO NUÑEZ RAFAEL HUIRACHE ACUÑA et al.	ChemNanoMat	2025
2	Physical and structural characterization of bis-acryl composite resin	ERIC MAURICIO RIVERA MUÑOZ JANETH SERRANO BELLO MARCO ANTONIO ALVAREZ PEREZ et al.	SCIENTIFIC REPORTS	2024
3	SBA-15 with short-sized channels modified with Fe <sub>2</sub> O <sub>3</sub> nanoparticles. A novel approximation of an efficient adsorbent for As removal in contaminated water	RUFINO NAVA MENDOZA BEATRIZ MARCELA MILLAN MALO MANUEL AGUILAR FRANCO et al.	JOURNAL OF POROUS MATERIALS	2024
4	An improved method for CO <sub>2</sub> adsorption based on two precursors supported in a CONTENIDO mesoporous silica	ERIC MAURICIO RIVERA MUÑOZ M. I. Gonzalez-Nava R. Nava-Mendoza et al.	REVISTA MEXICANA DE INGENIERIA QUIMICA	2024
5	Magnesium-Doped Hydroxyapatite Nanofibers for Medicine Applications: Characterization, Antimicrobial Activity, and Cytotoxicity Study	JUAN DAVID OLIVARES HERNANDEZ ERIC MAURICIO RIVERA MUÑOZ RODRIGO RAFAEL VELAZQUEZ CASTILLO et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2024

**ERIC MAURICIO RIVERA MUÑOZ**

6	Rapid and facile synthesis of gold nanoparticles with two Mexican medicinal plants and a comparison with traditional chemical synthesis	ERIC MAURICIO RIVERA MUÑOZ Soto K.M. López-Romero J.M. et al.	MATERIALS CHEMISTRY AND PHYSICS	2023
7	Catalytic performance of CoMoW Sulfide catalysts supported on hierarchically structured porous silicas for HDS reactions	RUFINO NAVA MENDOZA BEATRIZ MARCELA MILLAN MALO RAFAEL HUIRACHE ACUÑA et al.	Chemical Engineering Journal Advances	2023
8	PDMS/TiO <sub>2</sub> and PDMS/SiO <sub>2</sub> Nanocomposites: Mechanical Properties' Evaluation for Improved Insulating Coatings	ERIC MAURICIO RIVERA MUÑOZ RODRIGO RAFAEL VELAZQUEZ CASTILLO Cordoba A. et al.	NANOMATERIAL S	2023
9	Efficient Removal of Hg(II) from Water under Mildly Acidic Conditions with Hierarchical SiO <sub>2</sub> Monoliths Functionalized with -SH Groups	VERONICA HERNANDEZ MORALES ERIC MAURICIO RIVERA MUÑOZ RUFINO NAVA MENDOZA et al.	Materials	2022
10	Improving the Mechanical Resistance of Hydroxyapatite/Chitosan Composite Materials Made of Nanofibers with Crystalline Preferential Orientation	ERIC MAURICIO RIVERA MUÑOZ RODRIGO RAFAEL VELAZQUEZ CASTILLO Ricardo Pascual Alanis-Gomez et al.	Materials	2022
11	Photocatalytic Evaluation of TiO <sub>x</sub> Films Produced by Cathodic Arc-PVD with Silver Addition by UVC Photo-Reduction Method	ERIC MAURICIO RIVERA MUÑOZ Raya-Tapia A.Y. Ung-Medina F. et al.	Inorganics	2022
12	Gold Nanoparticles Synthesized with Common Mullein ( <i>Verbascum thapsus</i> ) and Castor Bean ( <i>Ricinus communis</i> ) Ethanolic Extracts Displayed Antiproliferative Effects and Induced Caspase 3 Activity in Human HT29 and SW480 Cancer Cells	ERIC MAURICIO RIVERA MUÑOZ Soto K.M. Luzardo-Ocampo I. et al.	Pharmaceutics	2022
13	Comparative Study between Two Simple Synthesis Methods for Obtaining Green Gold Nanoparticles Decorating Silica Particles with Antibacterial Activity	ERIC MAURICIO RIVERA MUÑOZ Soto K.M. Gódinez-Oviedo A. et al.	Materials	2022
14	Antiviral Activity of TiO <sub>2</sub> NPs against Tobacco Mosaic Virus in Chili Pepper ( <i>Capsicum annum</i> L.)	ERIC MAURICIO RIVERA MUÑOZ Acuña-Fuentes N.L. Vargas-Hernandez M. et al.	AGRICULTURE-B ASEL	2022
15	Dibenzothiophene hydrodesulfurization over ternary metallic NiMoW/Ti- HMS mesoporous catalysts	RAFAEL HUIRACHE ACUÑA GABRIEL ALONSO NUÑEZ TRINO ARMANDO ZEPEDA PARTIDA et al.	CATALYSIS COMMUNICATIO NS	2021

**ERIC MAURICIO RIVERA MUÑOZ**

16	Encapsulation of toxic heavy metals from waste CRT using calcined kaolin base-geopolymer	LUIS MIGUEL APATIGA CASTRO ERIC MAURICIO RIVERA MUÑOZ H. R. Guzman-Carrillo et al.	MATERIALS CHEMISTRY AND PHYSICS	2021
17	Cd(II) and Pb(II) Adsorption Using a Composite Obtained from Moringa oleifera Lam. Cellulose Nanofibrils Impregnated with Iron Nanoparticles	ERIC MAURICIO RIVERA MUÑOZ Adriana Vazquez-Guerrero Raul Cortes-Martinez et al.	WATER	2021
18	Behaviour of nanocrystalline tricalcium silicate-based cements at early stages of hydration	BEATRIZ MARCELA MILLAN MALO ERIC MAURICIO RIVERA MUÑOZ LAURO BUCIO GALINDO et al.	MATERIALS RESEARCH EXPRESS	2021
19	Thermal Energy Storage by the Encapsulation of Phase Change Materials in Building Elements-A Review	LUIS MIGUEL APATIGA CASTRO ERIC MAURICIO RIVERA MUÑOZ Jose Luis Reyez-Araiza et al.	Materials	2021
20	The use of inorganic Al-HMS as a support for NiMoW sulfide HDS catalysts	TRINO ARMANDO ZEPEDA PARTIDA ERIC MAURICIO RIVERA MUÑOZ GABRIEL ALONSO NUÑEZ et al.	INORGANICA CHIMICA ACTA	2021
21	Nanoparticles of ZnO and Mg-doped ZnO: Synthesis, characterization and efficient removal of methyl orange (MO) from aqueous solution	ERIC MAURICIO RIVERA MUÑOZ Vargas M.A. Diosa J.E. et al.	CERAMICS INTERNATIONAL	2021
22	MoSe <sub>2</sub> monolayer crystallinity improvement and phase engineering for ultrasensitive SERS detection	ERIC MAURICIO RIVERA MUÑOZ ANDRES DE LUNA BUGALLO Mario Flores Salazar et al.	FlatChem	2021
23	Au-Ag/TiO <sub>2</sub> Thin Films Preparation by Laser Ablation and Sputtering Plasmas for Its Potential Use as Photoanodes in Electrochemical Advanced Oxidation Processes (EAOP)	ERIC MAURICIO RIVERA MUÑOZ Martínez-Chávez L.A. Velázquez-Castillo R.R. et al.	CATALYSTS	2021
24	A Comparison of Mechanical Properties of Different Hydroxyapatite (HAp) Based Nanocomposites: The Influence of Morphology and Preferential Orientation	ERIC MAURICIO RIVERA MUÑOZ RODRIGO RAFAEL VELAZQUEZ CASTILLO J. R. Alanis-Gomez et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2020
25	Morphological study of TiO <sub>2</sub> thin films doped with cobalt by Metal Organic Chemical Vapor Deposition	LUIS MIGUEL APATIGA CASTRO ERIC MAURICIO RIVERA MUÑOZ RODRIGO RAFAEL VELAZQUEZ CASTILLO et al.	Results in Physics	2020
26	SBA-16 cage-like porous material modified with APTES as an adsorbent for Pb <sup>2+</sup> ions removal from aqueous solution	VERONICA HERNANDEZ MORALES ERIC MAURICIO RIVERA MUÑOZ Palos-Barba V. et al.	Materials	2020

**ERIC MAURICIO RIVERA MUÑOZ**

27	Physicochemical properties and resistant starch content of corn tortilla flours refrigerated at different storage times	MARIA DE LOS ANGELES CORNEJO VILLEGAS ALICIA DEL REAL LOPEZ ERIC MAURICIO RIVERA MUÑOZ et al.	Foods	2020
28	Development of an Adsorbing System Made of DMS-1 Mesh Modified by Amino Groups to Remove Pb(II) Ions from Water	MARIA DAYANA PEREZ LEDESMA ERIC MAURICIO RIVERA MUÑOZ RUFINO NAVA MENDOZA et al.	Materials	2020
29	Gamma radiation-induced grafting of n-hydroxyethyl acrylamide onto poly(3-hydroxybutyrate): A companion study on its polyurethane scaffolds meant for potential skin tissue engineering applications	MAYKEL GONZALEZ TORRES YAAZIEL MELGAREJO RAMIREZ GERARDO LEYVA GOMEZ et al.	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	2020
30	In-situ XRD study of the crystal size transition of hydroxyapatite from swine bone	ERIC MAURICIO RIVERA MUÑOZ MARIO ENRIQUE RODRIGUEZ GARCIA Londoño-Restrepo S.M. et al.	CERAMICS INTERNATIONAL	2020
31	Effect of pH in Morphological Properties of Brushite Microstructures Synthesized by Precipitation Method	LUIS MIGUEL APATIGA CASTRO ERIC MAURICIO RIVERA MUÑOZ MIGUEL ANGEL OCAMPO MORTERA et al.	NANOSCIENCE AND NANOTECHNOLOGY LETTERS	2020
32	Calcium bioavailability in the soluble and insoluble fibers extracted from opuntia ficus indica at different maturity stages in growing rats	ELSA GUTIERREZ CORTEZ ALICIA DEL REAL LOPEZ ERIC MAURICIO RIVERA MUÑOZ et al.	Nutrients	2020
33	Crystal growth of hydroxyapatite microplates synthesised by Sol-Gel method	LUIS MIGUEL APATIGA CASTRO ERIC MAURICIO RIVERA MUÑOZ Méndez-Lozano N. et al.	MICRO & NANO LETTERS	2019
34	Effect of the Nano Crystal Size on the X-ray Diffraction Patterns of Biogenic Hydroxyapatite from Human, Bovine, and Porcine Bones	BEATRIZ MARCELA MILLAN MALO ERIC MAURICIO RIVERA MUÑOZ MARIO ENRIQUE RODRIGUEZ GARCIA et al.	SCIENTIFIC REPORTS	2019
35	Characterization and setting protocol for a simultaneous X-ray Diffraction - X-ray Fluorescence system (XRD/XRF) for in situ analysis	JOSE LUIS RUVALCABA SIL LAURO BUCIO GALINDO ERIC MAURICIO RIVERA MUÑOZ et al.	EUROPEAN PHYSICAL JOURNAL PLUS	2019
36	Porous geopolymer as a possible template for a phase change material	LUIS MIGUEL APATIGA CASTRO ERIC MAURICIO RIVERA MUÑOZ Gasca-Tirado J.R. et al.	MATERIALS CHEMISTRY AND PHYSICS	2019
37	Effect of chemical oxidation routes on the properties of chitosan-mwcnt nanocomposites	ERIC MAURICIO RIVERA MUÑOZ Sánchez A.G. Prokhorov E. et al.	CURRENT NANOSCIENCE	2019

**ERIC MAURICIO RIVERA MUÑOZ**

38	Characterizations and HDS performances of sulfided NiMoW catalysts supported on mesoporous titania-modified SBA-15	ERIC MAURICIO RIVERA MUÑOZ GABRIEL ALONSO NUÑEZ Gómez-Orozco S.Y. et al.	CATALYSIS TODAY	2018
39	Biohermal thrombolites of the crater lake Rincón de Parangeo in Central México	JOSE JORGE ARANDA GOMEZ ERIC MAURICIO RIVERA MUÑOZ GILLES PIERRE RENE LEVRESSE et al.	JOURNAL OF SOUTH AMERICAN EARTH SCIENCES	2018
40	Chitosan-hydroxyapatite nanocomposites: Effect of interfacial layer on mechanical and dielectric properties	ERIC MAURICIO RIVERA MUÑOZ Gomez Sanchez A. Prokhorov E. et al.	MATERIALS CHEMISTRY AND PHYSICS	2018
41	Interconnected porosity analysis by 3D X-ray microtomography and mechanical behavior of biomimetic organic-inorganic composite materials	RODRIGO RAFAEL VELAZQUEZ CASTILLO BEATRIZ MARCELA MILLAN MALO LAURO BUCIO GALINDO et al.	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	2017
42	Facile control of ZnO nanostructures by varying molar concentration of zinc acetate	ERIC MAURICIO RIVERA MUÑOZ FLORA EMPERATRIZ MERCADER TREJO Guzman-Carrillo, H. R. et al.	MATERIALS RESEARCH BULLETIN	2017
43	Sustainable Development of Palm Oil: Synthesis and Electro-chemical Performance of Corrosion Inhibitors	ERIC MAURICIO RIVERA MUÑOZ MAURA CASALES DIAZ LORENZO MARTINEZ GOMEZ et al.	JOURNAL OF ELECTROCHEMICAL SCIENCE AND TECHNOLOGY	2017
44	Self-Cleaning Activity on Concrete Surfaces Coated with Fe- and S-Doped TiO <sub>2</sub> Synthesized by Sol-Gel Microwave Method	ERIC MAURICIO RIVERA MUÑOZ Zamudio-Mendez, A. Sanchez-Palma, E. et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2017
45	CdTe/CdS solar cells with CdTe grown at low vacuum	ERIC MAURICIO RIVERA MUÑOZ García-Alvarado, G. I. de Moure-Flores, F. et al.	Vacuum	2017
46	Characterization and HDS activity of sulfided Co[sbnd]Mo[sbnd]W/SBA-16 catalysts: Effects of P addition and Mo/(Mo + W) ratio	RAFAEL HUIRACHE ACUÑA ERIC MAURICIO RIVERA MUÑOZ Pawelec B. et al.	Fuel	2017
47	Crystal growth and structural analysis of hydroxyapatite nanofibers synthesized by the hydrothermal microwave-assisted method	RODRIGO RAFAEL VELAZQUEZ CASTILLO ERIC MAURICIO RIVERA MUÑOZ LAURO BUCIO GALINDO et al.	CERAMICS INTERNATIONAL	2017



**ERIC MAURICIO RIVERA MUÑOZ**

48	Physicochemical and rheological characterization of <i>Opuntia ficus mucilage</i> at three different maturity stages of cladode	MARIO ENRIQUE RODRIGUEZ GARCIA ELSA GUTIERREZ CORTEZ MARIA DEL CARMEN VALDERRAMA BRAVO et al.	EUROPEAN POLYMER JOURNAL	2016
49	Morphology Effect of Silver Nanostructures on the Performance of a P3HT: Graphene: AgNs-Based Active Layer Obtained via Dip Coating	ERIC MAURICIO RIVERA MUÑOZ Gomez-Acosta, Ali Barquera-Bibiano, Zaira et al.	JOURNAL OF NANOMATERIAL S	2016
50	Transparent Electrodes: A Review of the Use of Carbon-Based Nanomaterials	LUIS MIGUEL APATIGA CASTRO ERIC MAURICIO RIVERA MUÑOZ Lopez-Naranjo, Edgar J. et al.	JOURNAL OF NANOMATERIAL S	2016
51	Synthesis of Micro and Nano-Sized Hydroxyapatite Fibers Through the Microwave Assisted Hydrothermal Method	ERIC MAURICIO RIVERA MUÑOZ Alanis-Gomez, J. R. Cervantes-Medina, J. S. et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2016
52	Enhanced photocatalytic activity of MWCNT/TiO <sub>2</sub> heterojunction photocatalysts obtained by microwave assisted synthesis	ERIC MAURICIO RIVERA MUÑOZ Caudillo-Flores U. Lara-Romero J. et al.	CATALYSIS TODAY	2016
53	Characterization and catalytic performance of Co-Mo-W sulfide catalysts supported on SBA-15 and SBA-16 mechanically mixed	BEATRIZ MARCELA MILLAN MALO ERIC MAURICIO RIVERA MUÑOZ Lopez-Mendoza, M. A. et al.	CATALYSIS TODAY	2016
54	Characterization and HDS performance of sulfided CoMoW catalysts supported on mesoporous Al-SBA-16 substrates	TRINO ARMANDO ZEPEDA PARTIDA ERIC MAURICIO RIVERA MUÑOZ Huirache-Acuña R. et al.	Fuel	2015
55	Silver nanostructure dependence on the stirring-time in a high-yield polyol synthesis using a short-chain PVP	A. GomezAcosta A. ManzanoRamirez E. J. LopezNaranjo et al.	MATERIALS LETTERS	2015
56	Characterization of crystalline structures in <i>Opuntia ficus-indica</i>	Margarita ContrerasPadilla ERIC MAURICIO RIVERA MUÑOZ ELSA GUTIERREZ CORTEZ et al.	JOURNAL OF BIOLOGICAL PHYSICS	2015
57	Crystalline and spectroscopic characterization of poly(2-aminoethyl methacrylate hydrochloride) chains grafted onto poly	MAYKEL GONZALEZ TORRES JOSE ROGELIO RODRIGUEZ TALAVERA SUSANA VARGAS MUÑOZ et al.	VIBRATIONAL SPECTROSCOPY	2015
58	Unsupported trimetallic CoMoW sulfide HDS catalysts prepared by in situ decomposition of sulfur-containing precursors	GABRIEL ALONSO NUÑEZ ERIC MAURICIO RIVERA MUÑOZ HuiracheAcuna, R. et al.	CATALYSIS TODAY	2015

## ERIC MAURICIO RIVERA MUÑOZ

59	Barley straw ash: Pozzolanic activity and comparison with other natural and artificial pozzolans from México	MARIO ENRIQUE RODRIGUEZ GARCIA LUIS MIGUEL APATIGA CASTRO ERIC MAURICIO RIVERA MUÑOZ et al.	Bioresources	2015
60	Characterization of Calcium Compounds in Opuntia ficus indica as a Source of Calcium for Human Diet	ELSA GUTIERREZ CORTEZ Cesar IbarraAlvarado ERIC MAURICIO RIVERA MUÑOZ et al.	JOURNAL OF CHEMISTRY	2015
61	The use of a natural Mexican zeolite as support of NiMoW sulphide hydrotreating catalysts	ERIC MAURICIO RIVERA MUÑOZ Huirache-Acuna, R. Pawelec, B. et al.	CATALYSIS TODAY	2014
62	SBA-15 Mesoporous Silica as Catalytic Support for Hydrodesulfurization Catalysts-Review	Carmen L. Peza Ledesma GABRIEL ALONSO NUÑEZ ERIC MAURICIO RIVERA MUÑOZ et al.	Materials	2013
63	An Overview of Carbon Nanotubes: Synthesis, Purification and Characterization	LUIS MIGUEL APATIGA CASTRO ERIC MAURICIO RIVERA MUÑOZ Manzano-Ramirez, Alejandro et al.	CURRENT ORGANIC CHEMISTRY	2013
64	Comparison of physicochemical properties of bio and commercial hydroxyapatite	D. G. Espinosa Arbelaez ALICIA DEL REAL LOPEZ BEATRIZ MARCELA MILLAN MALO et al.	CURRENT APPLIED PHYSICS	2013
65	Automatic Carbon Dioxide-Methane Gas Sensor Based on the Solubility of Gases in Water	ERIC MAURICIO RIVERA MUÑOZ Cadena-Pereda, Raul O. Herrera-Ruiz, Gilberto et al.	SENSORS	2012
66	Comparison of the morphology and HDS activity of ternary Ni(Co)-Mo-W catalysts supported on Al-HMS and Al-SBA-16 substrates	ERIC MAURICIO RIVERA MUÑOZ Huirache-Acuna, R. Pawelec, B. et al.	APPLIED CATALYSIS B-ENVIRONMEN TAL	2012
67	Synthesis and characterization of Hydroxyapatite-based nanostructures: Nanoparticles, nanoplates, nanofibers and nanoribbons	ERIC MAURICIO RIVERA MUÑOZ JESUS ANGEL ARENAS ALATORRE Velázquez-Castillo R. et al.	Materials Science Forum	2012
68	Synthesis and characterization of trimetallic Ni(Co)-Mo-W HDS catalysts supported on Al-HMS substrates	ERIC MAURICIO RIVERA MUÑOZ GABRIEL ALONSO NUÑEZ Huirache-Acuña R. et al.	Aiche Annual Meeting, Conference Proceedings	2011
69	Synthesis of Hydroxyapatite Nanostructures Using Microwave Heating	ERIC MAURICIO RIVERA MUÑOZ Cabrera, J. L. Velazquez-Castillo, R.	JOURNAL OF NANOSCIENCE AND NANOTECHNOL OGY	2011
70	Growth of Hydroxyapatite Nanoparticles on Silica Gels	ERIC MAURICIO RIVERA MUÑOZ GABRIEL ALONSO NUÑEZ S. Eguia Eguia et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOL OGY	2011



**ERIC MAURICIO RIVERA MUÑOZ**

71	Evaluation of oxalates and calcium in nopal pads ( <i>Opuntia ficus-indica</i> var. <i>redonda</i> ) at different maturity stages	Margarita I. Hernandez Urbiola Gabriela Hernandez Quevedo ALICIA DEL REAL LOPEZ et al.	JOURNAL OF FOOD COMPOSITION AND ANALYSIS	2011
72	CO oxidation at 20 degrees C over Au/SBA-15 catalysts decorated by Fe <sub>2</sub> O <sub>3</sub> nanoparticles	C. L. Peza Ledesma ERIC MAURICIO RIVERA MUÑOZ Escamilla-Perea, L. et al.	CATALYSIS COMMUNICATIONS	2011
73	Unsupported Ni/Mo(W)S-2 Catalysts from Hexamethylenediammonium Thiometallates Precursors: In Situ Activation During the HDS of DBT	R. Huirache Acuna ERIC MAURICIO RIVERA MUÑOZ GABRIEL ALONSO NUÑEZ et al.	CATALYSIS LETTERS	2010
74	Comparison of the Thermo-Mechanical Properties of Chemically Synthesized PMMA and PTEGDMA Polymer	ERIC MAURICIO RIVERA MUÑOZ Velazquez-Castillo, R. Galvan-Ruiz, M.	JOURNAL OF APPLIED POLYMER SCIENCE	2010
75	Automatic volumetric gas flow meter for monitoring biogas production from laboratory-scale anaerobic digester	ERIC MAURICIO RIVERA MUÑOZ Cadena Pereda, R. O. Herrera Ruiz, G.	SENSORS AND ACTUATORS B-CHEMICAL	2010
76	SYNTHESIS AND CHARACTERIZATION OF PARTIALLY SULFIDED CoMoW OXIDES NANOSTRUCTURES AND THEIR APPLICATION IN THE HDS OF DBT	ERIC MAURICIO RIVERA MUÑOZ Huirache-Acuna, R. Sanchez-Bautista, M. G. et al.	REVISTA MEXICANA DE INGENIERIA QUIMICA	2010
77	Sol Gel-Derived SBA-16 Mesoporous Material	ERIC MAURICIO RIVERA MUÑOZ Huirache-Acuna, Rafael	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2010
78	Morphological analysis of hydroxyapatite particles obtained by different methods	ERIC MAURICIO RIVERA MUÑOZ Velázquez R. Cabrera-Torres J.L.	Materials Science Forum	2010
79	Synthesis and characterization of WO <sub>3</sub> and WS <sub>2</sub> hexagonal phase nanostructures and catalytic test in sulfur remotion	R. Huirache Acuna ERIC MAURICIO RIVERA MUÑOZ GABRIEL ALONSO NUÑEZ et al.	JOURNAL OF MATERIALS SCIENCE	2009
80	Rietveld refinement of Y <sub>2</sub> GeO <sub>5</sub>	ERIC MAURICIO RIVERA MUÑOZ LAURO BUCIO GALINDO	ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE	2009
81	Comparison of the morphology and HDS activity of ternary Co-Mo-W catalysts supported on P-modified SBA-15 and SBA-16 substrates	R. Huirache Acuna ERIC MAURICIO RIVERA MUÑOZ Pawelec, B. et al.	APPLIED CATALYSIS B-ENVIRONMENTAL	2009

**ERIC MAURICIO RIVERA MUÑOZ**

82	Relationship between structural features of Mo S2 nanotubes and crystalline structure of precursor	ERIC MAURICIO RIVERA MUÑOZ	JOURNAL OF APPLIED PHYSICS	2007
83	Mechanical characterization of hydroxyapatite - based, organic-inorganic composites	ERIC MAURICIO RIVERA MUÑOZ Velázquez R. Muñoz- Alvarez P.	Materials Science Forum	2007
84	Silica gel-supported, metal-promoted MoS2 catalysts for HDS reactions	ERIC MAURICIO RIVERA MUÑOZ Alonso G. Siadati M.H. et al.	CATALYSIS LETTERS	2004
85	Selectivity in the hydroxyapatite synthesis from eggshell using different thermal treatments	ERIC MAURICIO RIVERA MUÑOZ JOSE ROGELIO RODRIGUEZ TALAVERA Curiel R.	MATERIALS RESEARCH INNOVATIONS	2003
86	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
87	Mesoporous carbon-containing MoS2 materials formed from the in situ decomposition of tetraalkylammonium thiomolybdates	GABRIEL ALONSO NUÑEZ ERIC MAURICIO RIVERA MUÑOZ SERGIO FUENTES MOYADO et al.	MATERIALS RESEARCH BULLETIN	2003
88	Improvement in mechanical properties of hydroxyapatite objects with controlled porosity made by modified gelcasting process	ERIC MAURICIO RIVERA MUÑOZ JOSE ROGELIO RODRIGUEZ TALAVERA Velázquez R.	Materials Science Forum	2003
89	Silica gel- and MCM-41-supported MoS2 catalysts for HDS reactions	ERIC MAURICIO RIVERA MUÑOZ GABRIEL ALONSO NUÑEZ Lardizabal D. et al.	CATALYSIS LETTERS	2003
90	Hydroxyapatite spheres with controlled porosity for eye ball prosthesis: Processing and characterization	ERIC MAURICIO RIVERA MUÑOZ JOSE ROGELIO RODRIGUEZ TALAVERA VICTOR MANUEL CASTAÑO MENESES et al.	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE	2001
91	Growth of hydroxyapatite on silica gels in the presence of organic additives: Kinetics and mechanism	ERIC MAURICIO RIVERA MUÑOZ JOSE ROGELIO RODRIGUEZ TALAVERA VICTOR MANUEL CASTAÑO MENESES et al.	MATERIALS RESEARCH INNOVATIONS	2001
92	Apatite growth on calcium adsorbed surface of wet flocculated silica particles immersed in a modified simulated body fluid	ERIC MAURICIO RIVERA MUÑOZ JOSE ROGELIO RODRIGUEZ TALAVERA Coreño J. et al.	J BIOMED MATER RES	2000
93	Wet Chemical Synthesis of Hydroxyapatite Particles from Nonstoichiometric Solutions	MARGARITA VICTORIA GARCIA GARDUÑO ERIC MAURICIO RIVERA MUÑOZ VICTOR MANUEL CASTAÑO MENESES et al.	J MATER SYNTH PROCES	1998



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



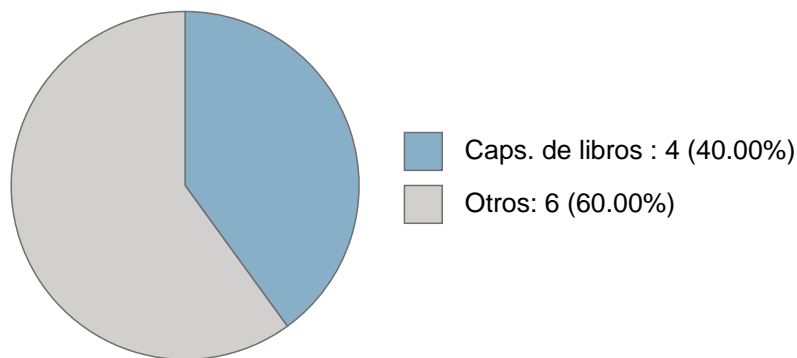
**ERIC MAURICIO RIVERA MUÑOZ**

94	Effect of chemical additives on the growth of hydroxyapatite on silica gels	ERIC MAURICIO RIVERA MUÑOZ	J MATER SYNTH PROCES	1997
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## ERIC MAURICIO RIVERA MUÑOZ

### LIBROS Y CAPITULOS CON ISBN

#### Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Mechanical properties of a composite material made of HAp nanofibers	ERIC MAURICIO RIVERA MUÑOZ Alanis J.R. Velazquez R. et al.	Conferenc e Paper	2017	9780998878201
2	OVERVIEW OF PHOSPHORUS EFFECT IN MOLYBDENUM-BASED HYDROTREATING CATALYSTS SUPPORTED ON ORDERED MESOPOROUS SILICEOUS MATERIALS	ERIC MAURICIO RIVERA MUÑOZ	Capítulo de un Libro	2016	9789535125822
3	TRIMETALLIC SULFIDE CATALYSTS FOR HYDRODESULFURIZATION	ERIC MAURICIO RIVERA MUÑOZ	Capítulo de un Libro	2015	9781466695450
4	SBA-16 MESOPOROUS SILICA AS CATALYTIC SUPPORT FOR HYDRODESULFURIZATION CATALYSTS	ERIC MAURICIO RIVERA MUÑOZ	Capítulo de un Libro	2015	9781634820936
5	Synthesis and characterization of nimow sulphide catalysts supported on ti-modified HMS	TRINO ARMANDO ZEPEDA PARTIDA ERIC MAURICIO RIVERA MUÑOZ Pérez-Ayala E. et al.	Conferenc e Paper	2015	9781510818637
6	Synthesis and Characterization of NiMoW Sulphide Catalysts Supported on Ti-Modified HMS	TRINO ARMANDO ZEPEDA PARTIDA ERIC MAURICIO RIVERA MUÑOZ Pérez-Ayala E. et al.	Conferenc e Paper	2015	9781510818538



**Reporte individual**

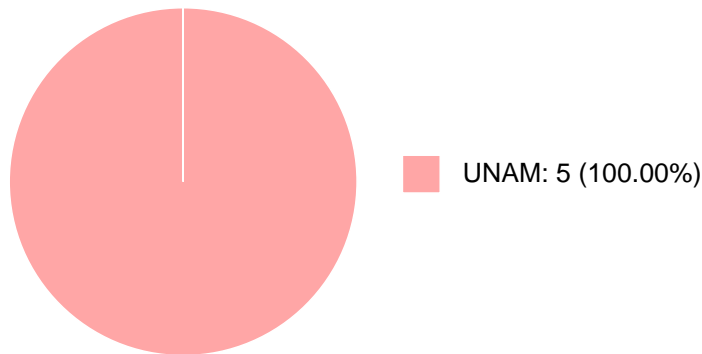
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7	Synthesis and Characterization of NiMoW Sulphide Catalysts Supported on Ti-Modified HMS	TRINO ARMANDO ZEPEDA PARTIDA ERIC MAURICIO RIVERA MUÑOZ Pérez-Ayala, E. et al.	Conferenc e Paper	2015	9781510818538
8	Synthesis and characterization of nimow sulphide catalysts supported on ti-modified HMS	TRINO ARMANDO ZEPEDA PARTIDA ERIC MAURICIO RIVERA MUÑOZ Pérez-Ayala, E. et al.	Conferenc e Paper	2015	9781510818637
9	Synthesis and characterization of trimetallic Ni(Co)-Mo-W HDS catalysts supported on Al-HMS substrates	ERIC MAURICIO RIVERA MUÑOZ GABRIEL ALONSO NUÑEZ Huirache-Acuña R. et al.	Conferenc e Paper	2011	9780816910670
10	Hydroxyapatite-based materials: synthesis and characterization.	ERIC MAURICIO RIVERA MUÑOZ	Capítulo de un Libro	2011	9789533073095

**ERIC MAURICIO RIVERA MUÑOZ**

**PARTICIPACIÓN EN PROYECTOS**

**Histórico de participación en proyectos**



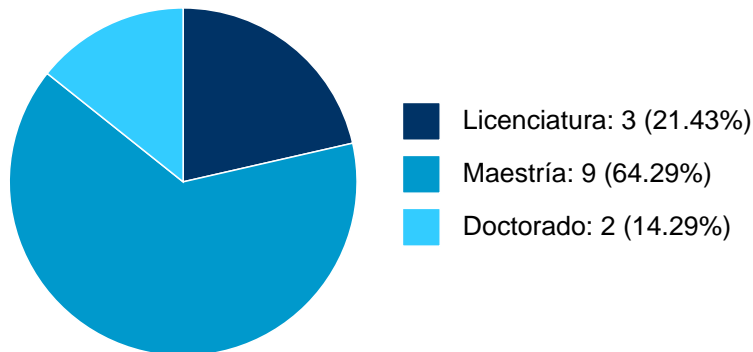
#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Biomateriales cerámicos, nanoestructurados y/o compuestos a base de hidroxiapatita.	ERIC MAURICIO RIVERA MUÑOZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2017	28-11-2025
2	Síntesis y caracterización de materiales nanoestructurados para aplicaciones en biomateriales y/o catálisis.	ERIC MAURICIO RIVERA MUÑOZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2017	31-12-2025
3	Síntesis de soportes mesoporosos de sílice para aplicaciones ambientales.	ERIC MAURICIO RIVERA MUÑOZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2015	31-12-2027
4	Estudio microestructural de materiales mediante técnicas de Difracción de rayos X y Microscopía Electrónica.	ERIC MAURICIO RIVERA MUÑOZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2014	31-12-2025
5	Estudios de arqueometría de materiales y piezas de origen arqueológico.	ERIC MAURICIO RIVERA MUÑOZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2017	31-12-2025



## ERIC MAURICIO RIVERA MUÑOZ

### PARTICIPACIÓN EN TESIS

#### Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Caracterización de hidroxapatita funcionalizada con el péptido de la proteína de adhesión del cemento (pHACD1/CAP)	Tesis de Maestría	ERIC MAURICIO RIVERA MUÑOZ,	ENRIQUE ROMO AREVALO, Hernández Zorrilla, Julio Adrián,	Centro de Física Aplicada y Tecnología Avanzada, Facultad de Odontología,	2022
2	Nanocatalizadores trimetálicos a base de sulfuros de Co-Mo-W soportados sobre una red tridimensional de nanoalambres de sílice mesoporosa para reacciones de HDS de DBT	Tesis de Maestría	BEATRIZ MARCELA MILLAN MALO,	ERIC MAURICIO RIVERA MUÑOZ, Fonseca Maya, Omar,	Centro de Física Aplicada y Tecnología Avanzada,	2021
3	Síntesis por precipitación química húmeda de nano-hidroxapatita añadido con magnesio	Tesis de Maestría	ERIC MAURICIO RIVERA MUÑOZ,	MARIO ENRIQUE RODRIGUEZ GARCIA, Correa Piña, Brandón Alexis,	Centro de Física Aplicada y Tecnología Avanzada,	2021

**ERIC MAURICIO RIVERA MUÑOZ**

4	Caracterización de materiales in situ por difracción y fluorescencia de rayos X	Tesis de Doctorado	ERIC MAURICIO RIVERA MUÑOZ,	JOSE LUIS RUVALCABA SIL, Aguilar Melo, Valentina,	Centro de Física Aplicada y Tecnología Avanzada, Instituto de Física,	2019
5	Caracterización físico-química y estructural de un fragmento mural proveniente de la zona arqueológica de Teotihuacán	Tesis de Licenciatura	BEATRIZ MARCELA MILLAN MALO,	ERIC MAURICIO RIVERA MUÑOZ, Ayala Román, Daniel,	Centro de Física Aplicada y Tecnología Avanzada,	2019
6	Síntesis y caracterización de sílices con porosidad jerárquica para uso como soportes catalíticos	Tesis de Doctorado	ERIC MAURICIO RIVERA MUÑOZ,	López Mendoza, Mario Alberto,	Centro de Física Aplicada y Tecnología Avanzada,	2018
7	Simulación de estructuras cristalinas y de formación de patrones de difracción de electrones	Tesis de Maestría	MIGUEL ANGEL OCAMPO MORTERA,	ERIC MAURICIO RIVERA MUÑOZ, Azaar Meza, Luis Roberto,	Centro de Física Aplicada y Tecnología Avanzada,	2015
8	Síntesis de nonafibras de hidroxiapatita mediante el método de microondas	Tesis de Maestría	LUIS MIGUEL APATIGA CASTRO,	ERIC MAURICIO RIVERA MUÑOZ, Cervantes Medina, José Salomón,	Centro de Física Aplicada y Tecnología Avanzada,	2015
9	Nanocatalizadores a base de sulfuros de metales de transición soportados sobre sílices mesoporosas para reacciones de HDS	Tesis de Maestría	ERIC MAURICIO RIVERA MUÑOZ,	López Mendoza, Mario Alberto,	Centro de Física Aplicada y Tecnología Avanzada,	2014
10	Desarrollo y caracterización de un nanomaterial cerámico de hidroxiapatita	Tesis de Maestría	ERIC MAURICIO RIVERA MUÑOZ,	Cabrera, J. L.,	Centro de Física Aplicada y Tecnología Avanzada,	2013

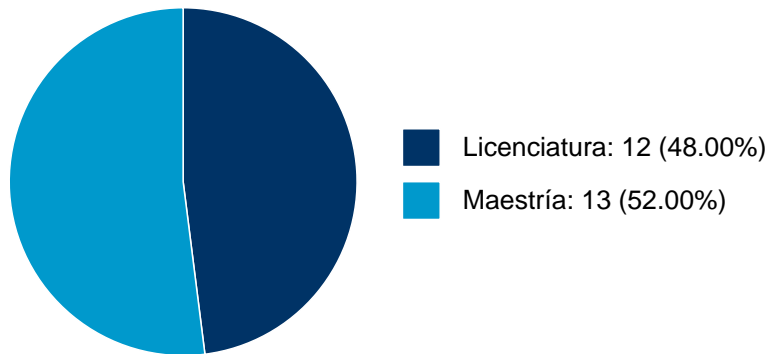
**ERIC MAURICIO RIVERA MUÑOZ**

11	Control de la macroporosidad de un material compuesto orgánico-inorgánico a base de hidroxiapatita: síntesis y caracterización	Tesis de Maestría	ERIC MAURICIO RIVERA MUÑOZ,	Alonso Sierra, Susana,	Centro de Física Aplicada y Tecnología Avanzada,	2013
12	Síntesis y caracterización de un material compuesto a base de hidroxiapatita con propiedades similares a las del tejido óseo natural	Tesis de Maestría	ERIC MAURICIO RIVERA MUÑOZ,	Muñoz Alvarez, Pilar Cristina,	Centro de Física Aplicada y Tecnología Avanzada,	2009
13	Uso de cascara de huevo en la síntesis de hidroxiapatita	Tesis de Licenciatura	ERIC MAURICIO RIVERA MUÑOZ,	Curiel López, Rogelio,		1998
14	Síntesis de hidroxiapatita en geles monolíticos de sílice	Tesis de Licenciatura	ERIC MAURICIO RIVERA MUÑOZ,	Bonilla Gutierrez, Mario,		1997

**ERIC MAURICIO RIVERA MUÑOZ**

**DOCENCIA IMPARTIDA**

**Histórico de docencia**



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	MATERIALES CERÁMICOS: DIFRACCIÓN	Instituto de Investigaciones en Materiales	1	2024-2
2	Maestría	MATERIALES CERÁMICOS: DIFRACCIÓN	Instituto de Investigaciones en Materiales	2	2024-1
3	Maestría	TEMAS SELECTOS DE MATERIALES ELECTRÓNICOS MICROSCOPIA ELECTRONICA APLICADA AL ESTUDIO DE LOS MATERIALES	Instituto de Investigaciones en Materiales	2	2023-1
4	Maestría	MATERIALES CERÁMICOS: DIFRACCIÓN	Instituto de Investigaciones en Materiales	0	2022-2
5	Licenciatura	ESTANCIA DE INVESTIGACION VII	Centro de Física Aplicada y Tecnología Avanzada	20	2021-1
6	Licenciatura	LABORATORIO TECNOLÓGICO	Centro de Física Aplicada y Tecnología Avanzada	14	2020-2
7	Licenciatura	LABORATORIO TECNOLÓGICO	Centro de Física Aplicada y Tecnología Avanzada	8	2019-2
8	Maestría	TEMAS SELECTOS DE MATERIALES CERÁMICOS TOPICOS AVANZADOS DE DIFRACCION DE RAYOS X	Instituto de Investigaciones en Materiales	1	2019-1

**ERIC MAURICIO RIVERA MUÑOZ**

9	Licenciatura	ESTANCIA DE INVESTIGACION V	Centro de Física Aplicada y Tecnología Avanzada	16	2019-1
10	Licenciatura	ESTANCIA DE INVESTIGACION VI	Centro de Física Aplicada y Tecnología Avanzada	14	2018-2
11	Licenciatura	ESTANCIA DE INVESTIGACION III	Centro de Física Aplicada y Tecnología Avanzada	16	2018-1
12	Licenciatura	ESTANCIA DE INVESTIGACION V	Centro de Física Aplicada y Tecnología Avanzada	3	2017-2
13	Licenciatura	ESTANCIA DE INVESTIGACION VII	Centro de Física Aplicada y Tecnología Avanzada	19	2017-1
14	Licenciatura	BIOMATERIALES-854	Centro de Física Aplicada y Tecnología Avanzada	5	2016-1
15	Licenciatura	ESTANCIA DE INVESTIGACION V-26893	Centro de Física Aplicada y Tecnología Avanzada	21	2016-1
16	Licenciatura	LABORATORIO TECNOLÓGICO II	Centro de Física Aplicada y Tecnología Avanzada	4	2015-2
17	Licenciatura	ESTANCIA DE INVESTIGACION V	Centro de Física Aplicada y Tecnología Avanzada	16	2015-1
18	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	4	2015-1
19	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	4	2014-2
20	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	7	2013-2
21	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	3	2012-2
22	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	5	2011-2
23	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	10	2010-2
24	Maestría	CRISTALOGRAFIA	Instituto de Investigaciones en Materiales	6	2009-1
25	Maestría	MATERIALES COMPUESTOS	Instituto de Investigaciones en Materiales	1	2008-1



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



**ERIC MAURICIO RIVERA MUÑOZ**

**PATENTES**

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

**ERIC MAURICIO RIVERA MUÑOZ**



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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