



ELIEL CARVAJAL QUIROZ

Datos Generales

Nombre: ELIEL CARVAJAL QUIROZ

Máximo nivel de estudios: POSDOCTORADO

Antigüedad académica en la UNAM: 13 años

Nombramientos

Último: PROFESOR ASIGNATURA A TP No Definitivo
Facultad de Ciencias
Desde 16-06-2009 hasta 15-04-2011

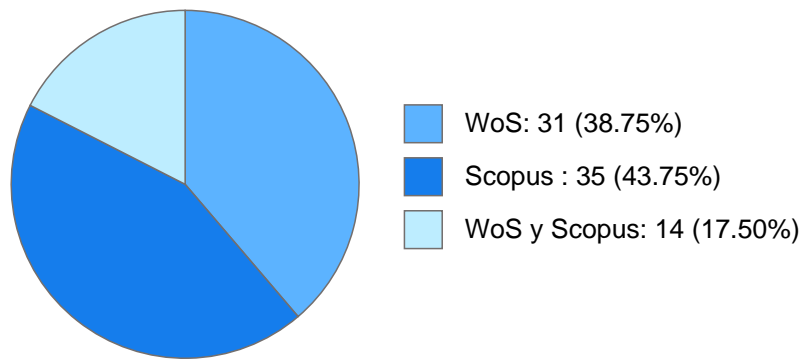
Estímulos, programas, premios y reconocimientos

SNI II 2018 - 2023
SNI I 2011 - 2017
PEPASIG Nivel C (Doctorado) 2010, 6 horas asignadas

ELIEL CARVAJAL QUIROZ

DOCUMENTOS EN REVISTAS

Histórico de Documentos



| # | Título | Autores | Revista | Año |
|---|--|---|--|------|
| 1 | Theoretical study on the structural, electronic, mechanical, vibrational, thermodynamical, and optical properties of the two-dimensional PbC nanomaterials | EDUARDO HUMBERTO MUÑOZ Y GARCIA JUAN MAURICIO ANGELES CERVANTES JESUS ALBERTO LEON FLORES et al. | PHYSICA SCRIPTA | 2024 |
| 2 | First-principles study of the effect of pressure on the physical properties of PbC | EDUARDO HUMBERTO MUÑOZ Y GARCIA JAIME EUGENIO ANTONIO PALLARES JUAN MAURICIO ANGELES CERVANTES et al. | MATERIALS RESEARCH EXPRESS | 2023 |
| 3 | A first-principles study of the electronic, mechanical, vibrational, and optical properties of the zirconium carbide under high pressure | JAIME EUGENIO ANTONIO PALLARES JOSE LUIS ROSAS HUERTA EUGENIA PAOLA AREVALO LOPEZ et al. | PHYSICA SCRIPTA | 2023 |
| 4 | A First-Principles Investigation on the Electronic and Mechanical Properties of 1T TiSe ₂ Multilayers for Energy Storage | JOSE LUIS ROSAS HUERTA ELIEL CARVAJAL QUIROZ RAUL ESCAMILLA GUERRERO et al. | JOURNAL OF THE ELECTROCHEMICAL SOCIETY | 2021 |
| 5 | Exposed Surface and Confinement Effects on the Electronic, Magnetic, and Mechanical Properties of LaTiO ₃ Slabs | JOSE LUIS ROSAS HUERTA RAUL ESCAMILLA GUERRERO ELIEL CARVAJAL QUIROZ et al. | IEEE TRANSACTIONS ON MAGNETICS | 2021 |

ELIEL CARVAJAL QUIROZ

| | | | | |
|----|--|---|---|------|
| 6 | DFT Electronic Properties and Synthesis Thermodynamics of $\text{Li}_x\text{La}_{1-x}\text{TiO}_3$ Electrolytes for Li-Ion Batteries | JOSE LUIS ROSAS HUERTA ELIEL CARVAJAL QUIROZ J. M. Cervantes et al. | JOURNAL OF THE ELECTROCHEMICAL SOCIETY | 2021 |
| 7 | DFT-based study of the bulk tin mixed-halide $\text{CsSnI}_3-x\text{Br}_x$ perovskite | FERNANDO SALAZAR POSADAS ELIEL CARVAJAL QUIROZ ALVARO MIRANDA DURAN et al. | COMPUTATIONAL MATERIALS SCIENCE | 2020 |
| 8 | LDA plus U study of hydrostatic pressure effect on double perovskite $\text{Sr}_2\text{FeNbO}_6$: crystal structure, mechanical and electronic properties | JOSE LUIS ROSAS HUERTA JESUS ALBERTO LEON FLORES ELIEL CARVAJAL QUIROZ et al. | PHYSICA SCRIPTA | 2020 |
| 9 | LDA+U study of the electronic and magnetic properties of the $\text{Sr}_2\text{FeMo}_{1-x}\text{Nb}_x\text{O}_6$ compound | JESUS ALBERTO LEON FLORES RAUL ESCAMILLA GUERRERO ELIEL CARVAJAL QUIROZ et al. | Materials Today Communications | 2020 |
| 10 | Crystalline Structure Study of Double Perovskites $\text{Sr}_2\text{FeNb}_{1-x}\text{MoxO}_6$ Synthesized by the Molten Salts Method | JESUS ALBERTO LEON FLORES MARTIN ROMERO MARTINEZ JESUS ANGEL ARENAS ALATORRE et al. | INTERNATIONAL CONFERENCES & EXHIBITION ON NANOTECHNOLOGIES, ORGANIC ELECTRONICS & NANOMEDICINE, NANOTECHNOLOGY 2020, PT 1 | 2019 |
| 11 | Effects of surface and confinement on the optical vibrational modes and dielectric function of 3C porous silicon carbide: An ab-initio study | ELIEL CARVAJAL QUIROZ González I. Trejo A. et al. | PHYSICA B-CONDENSED MATTER | 2018 |
| 12 | Quantum confinement effects on the harmful-gas-sensing properties of silicon nanowires | ELIEL CARVAJAL QUIROZ LUIS ANTONIO PEREZ LOPEZ Francisco de Santiago et al. | INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY | 2018 |
| 13 | Bidimensional perovskite systems for spintronic applications | ALVARO MIRANDA DURAN ELIEL CARVAJAL QUIROZ Pilo J. et al. | JOURNAL OF MOLECULAR MODELING | 2017 |
| 14 | Band-gap engineering of halogenated silicon nanowires through molecular doping | ELIEL CARVAJAL QUIROZ de Santiago, Francisco Trejo, Alejandro et al. | JOURNAL OF MOLECULAR MODELING | 2017 |

ELIEL CARVAJAL QUIROZ

| | | | | |
|----|---|---|---|------|
| 15 | First-principles study of the structural, elastic, vibrational, thermodynamic and electronic properties of the Mo ₂ B intermetallic under pressure | RAUL ESCAMILLA GUERRERO MARIA DE LOURDES ROMERO ALMARAZ ROLANDO GOMEZ MACEDO et al. | JOURNAL OF MOLECULAR STRUCTURE | 2016 |
| 16 | Effect of the transition metal ratio on bulk and thin slab double perovskite Sr ₂ FeMoO ₆ | ORACIO NAVARRO CHAVEZ ELIEL CARVAJAL QUIROZ Pilo, J. et al. | MICROELECTRONIC ENGINEERING | 2016 |
| 17 | XPS study of the electronic density of states in the superconducting Mo ₂ B and Mo ₂ BC compounds | RAUL ESCAMILLA GUERRERO FRANCISCO MORALES LEAL LAZARO HUERTA ARCOS et al. | JOURNAL OF MATERIALS SCIENCE | 2016 |
| 18 | Perovskite-Type Thin Slabs: A First-Principles Study of Their Magnetic and Electronic Properties | ALVARO MIRANDA DURAN ELIEL CARVAJAL QUIROZ Pilo J. et al. | IEEE MAGNETICS LETTERS | 2016 |
| 19 | Modeling the effects of Si-X (X = F, Cl) bonds on the chemical and electronic properties of Si-surface terminated porous 3C-SiC | ELIEL CARVAJAL QUIROZ Calvin M. Trejo A. et al. | THEORETICAL CHEMISTRY ACCOUNTS | 2016 |
| 20 | Electronic Properties and Magnetic Moment Distribution on Perovskite Type Slabs: Sr ₂ FeMoO ₆ , SrFeO ₃ and SrMoO ₃ | ELIEL CARVAJAL QUIROZ ORACIO NAVARRO CHAVEZ Pilo J. et al. | Physics Procedia | 2015 |
| 21 | Interactions among magnetic moments in the double perovskites Sr ₂ Fe _{1+x} Mo _{1-x} O ₆ | ORACIO NAVARRO CHAVEZ ELIEL CARVAJAL QUIROZ Pilo, J. et al. | PHYSICA B-CONDENSED MATTER | 2014 |
| 22 | Electronic states of lithium passivated germanium nanowires: An ab-initio study | ELIEL CARVAJAL QUIROZ Trejo A. Vázquez-Medina R. et al. | AIP Conference Proceedings | 2014 |
| 23 | DFT study of the electronic structure of cubic-sic nanopores with a c-terminated surface | ELIEL CARVAJAL QUIROZ Calvin M. Trejo A. et al. | JOURNAL OF NANOMATERIALS | 2014 |
| 24 | Ab-initio study of anisotropic and chemical surface modifications of β-SiC nanowires | ELIEL CARVAJAL QUIROZ Trejo A. Cuevas J.L. et al. | JOURNAL OF MOLECULAR MODELING | 2013 |
| 25 | A density functional theory study of the chemical surface modification of β-SiC nanopores | ELIEL CARVAJAL QUIROZ Calvin M. Trejo A. et al. | MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS | 2012 |

ELIEL CARVAJAL QUIROZ

| | | | | |
|----|---|--|---|------|
| 26 | FeMo double perovskite: From small clusters to bulk material | ORACIO NAVARRO CHAVEZ ELIEL CARVAJAL QUIROZ Oviedo-Roa, R. et al. | MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS | 2012 |
| 27 | Density functional investigation of silver, palladium and silver-palladium small sized clusters | ELIEL CARVAJAL QUIROZ OTTO HAHN HERRERA LUIS EMILIO ORGAZ BAQUE | REVISTA MEXICANA DE FISICA | 2009 |
| 28 | Theoretical study of the double perovskite Sr ₂ FeMo ₆ (M = Mo, W) | ORACIO NAVARRO CHAVEZ ELIEL CARVAJAL QUIROZ Aguilar B. et al. | JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS | 2007 |
| 29 | Effect of Mo/W disorder on the Curie temperature of Sr ₂ FeMo _x W _{1-x} O ₆ double perovskite | ORACIO NAVARRO CHAVEZ ELIEL CARVAJAL QUIROZ Aguilar B. et al. | REVISTA MEXICANA DE FISICA | 2007 |
| 30 | Ferromagnetic-antiferromagnetic transition in double perovskites | ORACIO NAVARRO CHAVEZ ELIEL CARVAJAL QUIROZ Aguilar B. et al. | PHYSICA B-CONDENSED MATTER | 2006 |
| 31 | Synthesis and structural characterization of sulfur nanowires | PATRICIA SANTIAGO JACINTO ELIEL CARVAJAL QUIROZ DOROTEO MENDOZA LOPEZ et al. | MICROSCOPY AND MICROANALYSIS | 2006 |
| 32 | Ferromagnetic transition in ordered double perovskites and related alloys | ORACIO NAVARRO CHAVEZ ELIEL CARVAJAL QUIROZ Allub R. et al. | EUROPEAN PHYSICAL JOURNAL B | 2005 |
| 33 | Few particles correlation in a one-dimensional quasiperiodic lattice | ORACIO NAVARRO CHAVEZ ELIEL CARVAJAL QUIROZ Suárez J.R. et al. | PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS | 2005 |
| 34 | Electronic properties of double perovskite compounds | ORACIO NAVARRO CHAVEZ ELIEL CARVAJAL QUIROZ Allub R. et al. | PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS | 2005 |
| 35 | Electronic and magnetic properties of the double perovskite Sr ₂ FeMo _x W _{1-x} O ₆ | ELIEL CARVAJAL QUIROZ ORACIO NAVARRO CHAVEZ Allub R. et al. | JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS | 2004 |



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



ELIEL CARVAJAL QUIROZ

LIBROS Y CAPITULOS CON ISBN

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

ELIEL CARVAJAL QUIROZ



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



ELIEL CARVAJAL QUIROZ

PARTICIPACIÓN EN PROYECTOS

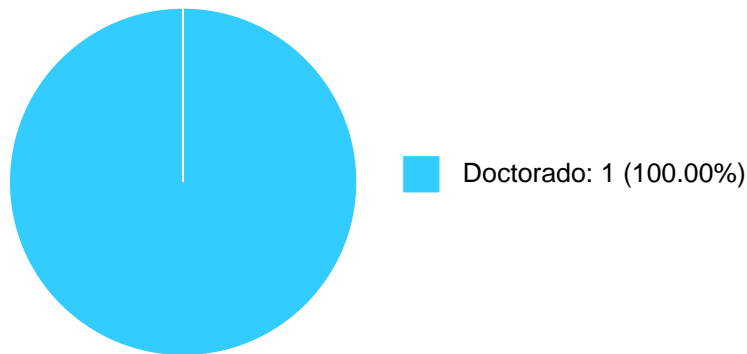
No se encuentran registros en la base de datos de SISEPRO asociados a:

ELIEL CARVAJAL QUIROZ

ELIEL CARVAJAL QUIROZ

PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

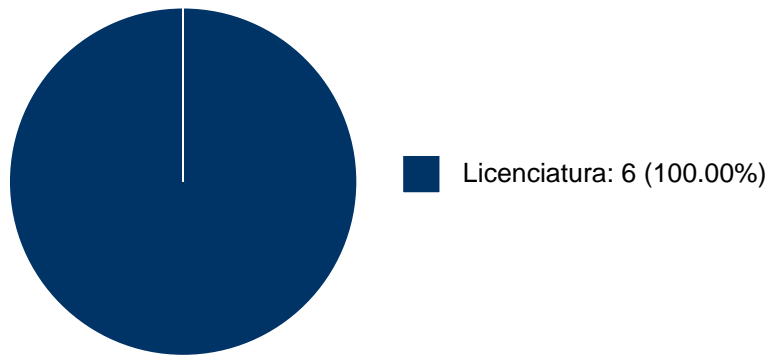


| # | Título del documento | Tipo de Tesis | Sinodales | Autores | Entidad | Año |
|---|--|--------------------|------------------------------|--|--|------|
| 1 | Estudio de la estructura cristalina y de las propiedades electrónicas de los compuestos tipo doble perovskita Sr ₂ FeMo _{1-x} Nb _x O ₆ | Tesis de Doctorado | JESUS ANGEL ARENAS ALATORRE, | ELIEL CARVAJAL QUIROZ, RAUL ESCAMILLA GUERRERO, et al. | Facultad de Ciencias, Instituto de Física, Instituto de Investigaciones en Materiales, | 2020 |

ELIEL CARVAJAL QUIROZ

DOCENCIA IMPARTIDA

Histórico de docencia



| # | Nivel titulación | Asignatura | Entidad | Alumnos | Semestre |
|---|------------------|----------------------------------|----------------------|---------|----------|
| 1 | Licenciatura | LABORATORIO DE MECANICA | Facultad de Ciencias | 7 | 2011-1 |
| 2 | Licenciatura | MECANICA VECTORIAL | Facultad de Ciencias | 12 | 2010-2 |
| 3 | Licenciatura | LABORATORIO DE MECANICA | Facultad de Ciencias | 5 | 2010-1 |
| 4 | Licenciatura | LABORATORIO DE MECANICA | Facultad de Ciencias | 15 | 2009-2 |
| 5 | Licenciatura | LABORATORIO DE MECANICA | Facultad de Ciencias | 10 | 2009-1 |
| 6 | Licenciatura | LABORATORIO DE ELECTROMAGNETISMO | Facultad de Ciencias | 14 | 2008-2 |



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



ELIEL CARVAJAL QUIROZ

TUTORIAS EN POSGRADO

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

ELIEL CARVAJAL QUIROZ



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



ELIEL CARVAJAL QUIROZ

PATENTES

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

ELIEL CARVAJAL QUIROZ

ELIEL CARVAJAL QUIROZ

FUENTES DE INFORMACIÓN

Internos

| # | Información | Fuente | Sistema | Periodo |
|---|--|--------|-------------|-----------|
| 1 | Grupos ordinarios y resumen de historias académicas | DGAE | SIAE | 2008-2024 |
| 2 | Nombramientos, datos generales, estímulos, premios y reconocimientos | DGAPA | RUPA | 2008-2024 |
| 3 | Producción Académica | CH | Humanindex | 2008-2021 |
| 4 | Producción Académica | CIC | SCIC | 2000-2017 |
| 5 | Proyectos | DGPO | SISEPRO | 2018-2022 |
| 6 | Tesis | DGB | TESIUNAM | 2008-2024 |
| 7 | Tutorías en Posgrado | CGEP | SIIPosgrado | 2008-2021 |

Externos

| # | Información | Fuente | Sistema | Periodo |
|----|-------------------------|-----------------|--------------|-----------|
| 8 | Documentos Indexados | Elsevier | Scopus | 2008-2024 |
| 9 | Documentos Indexados | Thomson Reuters | WoS | 2008-2024 |
| 10 | Obras con registro ISBN | INDAUTOR | Agencia ISBN | 2008-2024 |
| 11 | Patentes | IMPI | SIGA | 2008-2024 |