



## **AGILEO HERNANDEZ GORDILLO**

### **Datos Generales**

**Nombre:** AGILEO HERNANDEZ GORDILLO

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 5 años, 2 meses, 17 días

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### **Nombramientos**

**Vigente:** INVESTIGADOR ASOCIADO C TC No Definitivo  
Instituto de Investigaciones en Materiales  
Desde 01-12-2023

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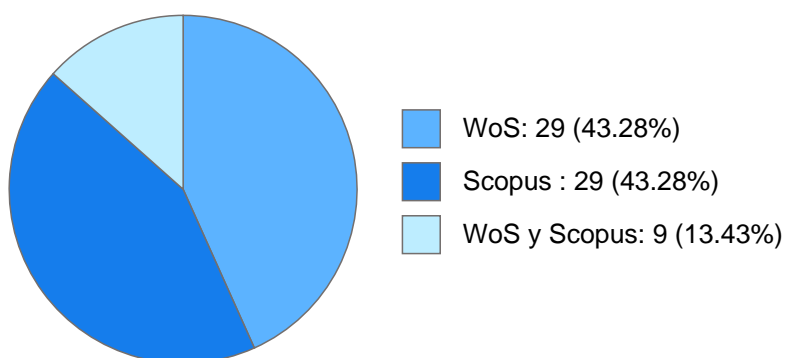
### **Estímulos, programas, premios y reconocimientos**

SNI | 2024

**AGILEO HERNANDEZ GORDILLO**

**DOCUMENTOS EN REVISTAS**

**Histórico de Documentos**



#	Título	Autores	Revista	Año
1	Editorial for the Special Issue ?Nanomaterials for a Better World?	SANDRA ELIZABETH RODIL POSADA AGILEO HERNANDEZ GORDILLO Rodríguez-Gonzalez V. et al.	MATERIALS LETTERS	2025
2	Improvement of the photocatalytic activity after reusing one-dimensional dark-ZnO films	MONSERRAT BIZARRO SORDO AGILEO HERNANDEZ GORDILLO Ballesteros-Balbuena M. et al.	Micro and Nanostructures	2025
3	Exploring the electronic structure of BiVO <sub>4</sub> thin films using energy-resolved electrochemical impedance spectroscopy	VICTOR MANUEL UGALDE SALDIVAR KAREN VALENCIA GARCIA AGILEO HERNANDEZ GORDILLO et al.	MATERIALS LETTERS	2024
4	Stacked ZnS multilayers of ZnS(en) <sub>0.5</sub> hybrids with enhancing photocatalytic performance for H <sub>2</sub> production	AGILEO HERNANDEZ GORDILLO LORENA CEREZO DURAN SANDRA ELIZABETH RODIL POSADA et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2024
5	Sputtering Deposition of ZnO Thin Films for Photocatalytic Hydrogen Production: Perspectives on Upscaling	ANDRES GALDAMEZ MARTINEZ CARLOS DAVID RAMOS VILCHIS GUILLERMO SANTANA RODRIGUEZ et al.	Nanofabricatio n	2024
6	Strong thickness dependence in thin film photocatalytic heterojunctions: the ZnO-Bi <sub>2</sub> O <sub>3</sub> case study	ALBERTO BERNAL DIAZ AGILEO HERNANDEZ GORDILLO JUAN CARLOS ALONSO HUITRON et al.	DALTON TRANSACTIONS	2024

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7	Impact of morphology and crystalline structure over the Zn <sup>2+</sup> ions storage in two-step solvothermal derived VO <sub>2</sub>	PROSPERO ACEVEDO PEÑA AGILEO HERNANDEZ GORDILLO Ramírez-Campos G. et al.	CERAMICS INTERNATIONAL	2024
8	Physicochemical characterization and biological response of PDMS/CS/PVA/GEN semi-interpenetrating networks as a function of CS/PVA/GEN ratio for tissue engineering	DANIEL PEREZ CALIXTO GENARO VAZQUEZ VICTORIO AGILEO HERNANDEZ GORDILLO et al.	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2023
9	Increasing the H <sub>2</sub> production rate of ZnS(en)(x) hybrid and ZnS film by photoexfoliation process	MONSERRAT BIZARRO SORDO SANDRA ELIZABETH RODIL POSADA AGILEO HERNANDEZ GORDILLO et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2022
10	Tracing the degradation pathway of temephos pesticide achieved with photocatalytic ZnO nanostructured films	JOSE AMAURI SERRANO LAZARO AGILEO HERNANDEZ GORDILLO GUILLERMO SANTANA RODRIGUEZ et al.	ENVIRONMENTA L SCIENCE-NANO	2022
11	Microparticles of α-Bi <sub>2</sub> O <sub>3</sub> Obtained from Bismuth Basic Nitrate [Bi <sub>6</sub> O <sub>6</sub> (OH) <sub>2</sub> (NO <sub>3</sub> ) <sub>4</sub> ·2H <sub>2</sub> O] with Photocatalytic Properties	AGILEO HERNANDEZ GORDILLO SOCORRO OROS RUIZ SANDRA ELIZABETH RODIL POSADA et al.	TOPICS IN CATALYSIS	2021
12	Pseudocapacitive Mn-Co mixed oxides obtained by thermal decomposition of manganese hexacyanocobaltate in presence of carbon structures	AGILEO HERNANDEZ GORDILLO PROSPERO ACEVEDO PEÑA Vazquez-Samperio J. et al.	ELECTROCHIMIC A ACTA	2021
13	Enhancing the photocatalytic activity of Cd <sub>2</sub> ZnS(EN) <sub>0.5</sub> hybrid sheets for the H <sub>2</sub> production	AGILEO HERNANDEZ GORDILLO RODOLFO ZANELLA SPECIA SANDRA ELIZABETH RODIL POSADA et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2020
14	Dependence of the photoactivity of CdS prepared in butanol-ethylenediamine mixture in function of different sacrificial electron donors	AGILEO HERNANDEZ GORDILLO PROSPERO ACEVEDO PEÑA SANDRA ELIZABETH RODIL POSADA et al.	CATALYSIS TODAY	2020
15	Efficient photocatalytic elimination of Temephos pesticide using ZnO nanoflowers	JOSE AMAURI SERRANO LAZARO VINOTH KUMAR JAYARAMAN AGILEO HERNANDEZ GORDILLO et al.	JOURNAL OF PHOTOCHEMIST RY AND PHOTOBIOLOGY A-CHEMISTRY	2020
16	In Situ Aniline-Polymerized Interfaces on GO-PVA Nanoplatforms as Bifunctional Supercapacitors and pH-Universal ORR Electrodes	Prospero Acevedo Pena AGILEO HERNANDEZ GORDILLO Josiel J. Barrios Cossio et al.	Acs Applied Energy Materials	2020

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17	Influence of ZnS wurtzite/sphalerite junctions on ZnO Core -ZnS Shell -ID photocatalysts for H <sub>2</sub> production	AGILEO HERNANDEZ GORDILLO PROSPERO ACEVEDO PEÑA Mendoza-Damián G. et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2019
18	Good practices for reporting the photocatalytic evaluation of a visible-light active semiconductor: Bi <sub>2</sub> O <sub>3</sub> , a case study	AGILEO HERNANDEZ GORDILLO MONSERRAT BIZARRO SORDO ANA MARIA MARTINEZ VAZQUEZ et al.	CATALYSIS SCIENCE & TECHNOLOGY	2019
19	Insights on the role of beta-Bi <sub>2</sub> O <sub>3</sub> /Bi <sub>5</sub> O <sub>7</sub> NO <sub>3</sub> heterostructures synthesized by a scalable solid-state method for the sunlight-driven photocatalytic degradation of dyes	AGILEO HERNANDEZ GORDILLO Tanveer A. Gadhi Simelys Hernandez et al.	CATALYSIS TODAY	2019
20	Silver nanoparticles loaded on Cu-doped TiO <sub>2</sub> for the effective reduction of nitro-aromatic contaminants	AGILEO HERNANDEZ GORDILLO González V.R.	CHEMICAL ENGINEERING JOURNAL	2015
21	Synthesis of new ZnS-Bipy based hybrid organic-inorganic materials for photocatalytic reduction of 4-nitrophenol	AGILEO HERNANDEZ GORDILLO Ramírez-Rave S. Calderón H.A. et al.	NEW JOURNAL OF CHEMISTRY	2015
22	Photocatalytic degradation of phenol using Al <sub>2</sub> O <sub>3</sub> -SnO <sub>2</sub> mixed oxide	AGILEO HERNANDEZ GORDILLO Mendoza-Damián G. Tzompantzi F. et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2015
23	Kinetic study of the 4-Nitrophenol photooxidation and photoreduction reactions using CdS	AGILEO HERNANDEZ GORDILLO Romero A.G. Tzompantzi F. et al.	APPLIED CATALYSIS B-ENVIRONMENTAL	2014
24	Preparation and characterization of the hybrid ZnS(en) <sub>0.5</sub> -CdS heterojunction	AGILEO HERNANDEZ GORDILLO Tzompantzi F. Gómez R. et al.	MATERIALS LETTERS	2014
25	Enhanced blue-light photocatalytic H <sub>2</sub> production using CdS nanofiber	AGILEO HERNANDEZ GORDILLO SOCORRO OROS RUIZ Tzompantzi F. et al.	CATALYSIS COMMUNICATIONS	2014
26	TiO <sub>2</sub> xerogels prepared by modified sol-gel method with ethylenediamine are photoactive for the 4-nitrophenol photoreduction	AGILEO HERNANDEZ GORDILLO Cipagauta S. Gómez R.	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	2014
27	Monometallic Pd and Pt and bimetallic Pd-Pt/Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> for the HDS of DBT: Effect of the Pd and Pt incorporation method	AGILEO HERNANDEZ GORDILLO Martínez Guerrero R. Santes V. et al.	JOURNAL OF CHEMISTRY	2014



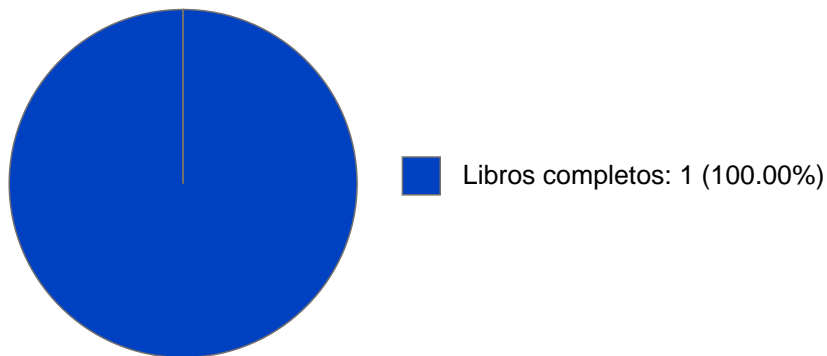
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28	New nanostructured CdS fibers for the photocatalytic reduction of 4-nitrophenol	AGILEO HERNANDEZ GORDILLO Romero A.G. Tzompantzi F. et al.	POWDER TECHNOLOGY	2013
29	An efficient ZnS-UV photocatalysts generated in situ from ZnS(en) 0.5 hybrid during the H <sub>2</sub> production in methanol-water solution	AGILEO HERNANDEZ GORDILLO Tzompantzi F. Gómez R.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2012
30	Enhanced photoreduction of Cr(VI) using ZnS(en) 0.5 hybrid semiconductor	AGILEO HERNANDEZ GORDILLO Tzompantzi F. Gómez R.	CATALYSIS COMMUNICATIO NS	2012

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**LIBROS Y CAPITULOS CON ISBN**

**Obras con registro ISBN**



#	Título	Autores	Alcance	Año	ISBN
1	Temas selectos en ciencia de materiales y nanotecnología	AGILEO HERNANDEZ GORDILLO SANDRA ELIZABETH RODIL POSADA SAYRA LISSETTE OROZCO CERROS et al.	Libro Completo	2022	9786073062169



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**Simplificación de la Gestión Institucional**  
**Reporte individual**



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**PARTICIPACIÓN EN PROYECTOS**

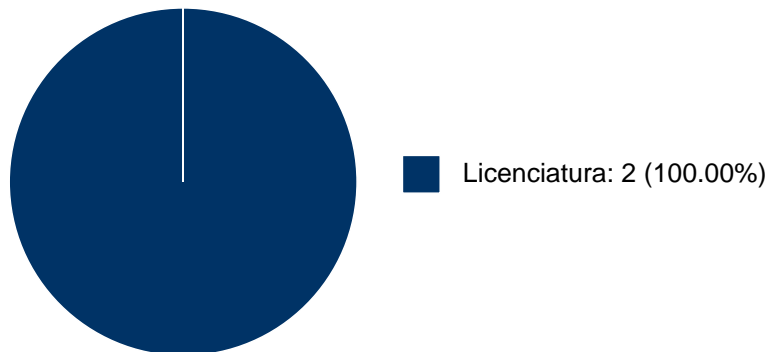
**No se encuentran registros en la base de datos de SISEPRO asociados a:**

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**PARTICIPACIÓN EN TESIS**

**Histórico de Colaboraciones en Tesis**



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Microestructuras de titanatos de bismuto (III) con propiedades fotocatalíticas para la conversión de 4-nitrofenol a 4-aminofenol	Tesis de Licenciatura	AGILEO HERNANDEZ GORDILLO,	López Guadarrama, Alejandro,		2019
2	Induciendo la fotodegradación de índigo carmín bajo luz visible usando heterounión CdS/Bi2S3	Tesis de Licenciatura	AGILEO HERNANDEZ GORDILLO,	Ramos Bermejo, Ana Belem,	Instituto de Investigaciones en Materiales,	2018

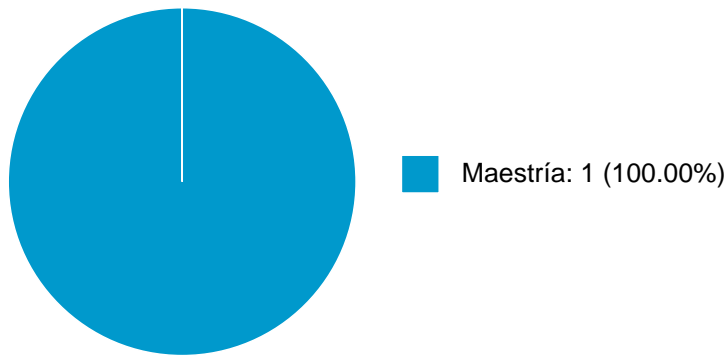




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**DOCENCIA IMPARTIDA**

**Histórico de docencia**



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	FISICOQUÍMICA DE SUPERFICIES	Instituto de Investigaciones en Materiales	3	2024-2



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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	2008-2024
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