



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



URIEL CAUDILLO FLORES

Datos Generales

Nombre: URIEL CAUDILLO FLORES

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 4 años

Nombramientos

Vigente: INVESTIGADOR TITULAR A TC Definitivo
Centro de Nanociencias y Nanotecnología en la UNAM
Desde 01-09-2024

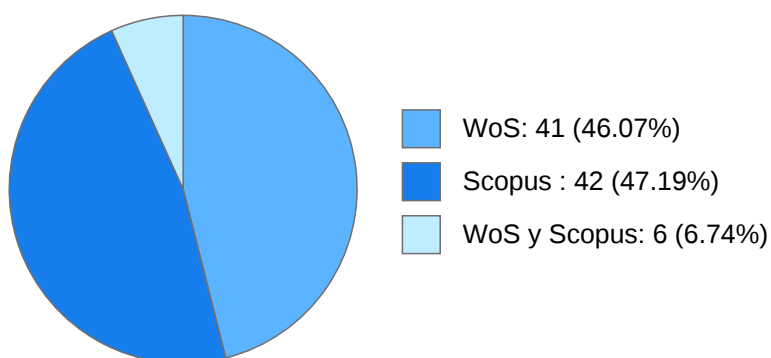
Estímulos, programas, premios y reconocimientos

SNI I 2021 - VIGENTE
EQUIVALENCIA PRIDE B 2020 - 2024

URIEL CAUDILLO FLORES

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Improving the Catalytic Selectivity of Reverse Water-Gas Shift Reaction Catalyzed by Ru/CeO ₂ Through the Addition of Yttrium Oxide	ALFREDO SOLIS GARCIA KARINA PORTILLO CORTEZ DAVID ALEJANDRO DOMINGUEZ VARGAS et al.	CATALYSTS	2025
2	Synergistic, dual energy source production of hydrogen using Ru-promoted nitrogen-doped carbon nanotubes	URIEL CAUDILLO FLORES Carrales-Alvarado D.H. Rodríguez-Ramos I. et al.	Carbon	2024
3	Photocatalytic Activity of Ag Nanoparticles Deposited on Thermoexfoliated g-C ₃ N ₄	KARINA PORTILLO CORTEZ URIEL CAUDILLO FLORES ELENA SMOLENTSEVA et al.	NANOMATERIALS	2024
4	Recent progress in the quantitative assessment and interpretation of photoactivity	URIEL CAUDILLO FLORES Muñoz-Batista M.J. Fernández-García M. et al.	CATALYSIS REVIEWS-SCIENCE AND ENGINEERING	2024
5	Direct obtaining of pure anatase TiO ₂ nanostructures, characterization, size-tuning, and applications	DAVID ALEJANDRO DOMINGUEZ VARGAS URIEL CAUDILLO FLORES SERGIO FUENTES MOYADO et al.	Nano-Structures and Nano-Objects	2024
6	Role of Atomicity and Interface on InOx-TiO ₂ Composites: Thermo-Photo Valorization of CO ₂	URIEL CAUDILLO FLORES Sayago-Carro R. Barba-Nieto I. et al.	ACS APPLIED MATERIALS & INTERFACES	2024

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7	High-load Mg ₂ Ni nanoparticle-carbon nanofiber composites for hydrogen storage	URIEL CAUDILLO FLORES KARINA SUAREZ ALCANTARA Eduardo David Ruiz-Santacruz et al.	Nanoscale	2024
8	In ₂ O ₃ -TiO ₂ Composites for CO ₂ Photothermocatalytic Valorization	URIEL CAUDILLO FLORES Mena-Saucedo A. Kubacka A. et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2024
9	Green Thermo-Photo Catalytic Production of Syngas Using Pd/Nb-TiO ₂ Catalysts	URIEL CAUDILLO FLORES SERGIO FUENTES MOYADO Sayago R. et al.	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	2023
10	Hydrogen photoproduction using Au promoted ZrO _x -TiO ₂ composite catalysts	URIEL CAUDILLO FLORES GERARDO SOTO HERRERA Arce-Saldaña L.A. et al.	CATALYSIS TODAY	2023
11	Effect of niobium on the performance of Pd-TiO ₂ photocatalysts for hydrogen production	URIEL CAUDILLO FLORES SERGIO FUENTES MOYADO Fernández-García M. et al.	CATALYSIS TODAY	2023
12	Photodegradation of ceftriaxone using g-C ₃ N ₄ -ZnO nanocomposite as an efficient photocatalyst	KARINA PORTILLO CORTEZ JOSUE ESAU ROMERO IBARRA DAVID ALEJANDRO DOMINGUEZ VARGAS et al.	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	2023
13	Compact device for in situ ultraviolet-visible spectrophotometric measurement of photocatalytic kinetics	JOSE LUIS ARCE SALDAÑA GERARDO SOTO HERRERA JUAN REYES HERRERA et al.	REVIEW OF SCIENTIFIC INSTRUMENTS	2023
14	Pd-Sn promoted NbO _x /TiO ₂ catalysts for hydrogen photoproduction: Effect of Pd-Sn interaction on charge handling and reaction mechanism	URIEL CAUDILLO FLORES SERGIO FUENTES MOYADO GABRIEL ALONSO NUÑEZ et al.	CHEMICAL ENGINEERING JOURNAL	2023
15	Role of alkali-cyano group interaction in g-C ₃ N ₄ based catalysts for hydrogen photo-production	URIEL CAUDILLO FLORES GABRIEL ALONSO NUÑEZ Ares-Dorado A. et al.	CATALYSIS TODAY	2022
16	Effect of pluronic P103 concentration on the simple synthesis of Ag and Au nanoparticles and their application in anatase-TiO ₂ decoration for its use in photocatalysis	URIEL CAUDILLO FLORES Rivas-Moreno F.K. Luna-Flores A. et al.	Molecules	2022
17	Photodegradation of 2-propanol in gas phase over zirconium doped TiO ₂ : Effect of Zr content	URIEL CAUDILLO FLORES Jedidi W. Arfaoui J. et al.	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	2022

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18	Physicochemical properties and photocatalytic activity in the 2-propanol degradation of transition metals (Zr, Zn or Nb) doped TiO ₂ solids	URIEL CAUDILLO FLORES Jedidi W. Arfaoui J. et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2022
19	Local Structure of TiO ₂ /2D Mordenite Mesoporous Nanocomposites Probed by NMR	ROSARIO ISIDRO YOCUPICIO GAXIOLA URIEL CAUDILLO FLORES VITALI PETRANOVSKI AFANASIEVNA et al.	APPLIED MAGNETIC RESONANCE	2022
20	Synthesis, Characterization, and Photocatalytic, Bactericidal, and Molecular Docking Analysis of Cu-Fe/TiO ₂ Photocatalysts: Influence of Metallic Impurities and Calcination Temperature on Charge Recombination	URIEL CAUDILLO FLORES Khan M.S. García M.F. et al.	Acs Omega	2021
21	Pt/B-g-C ₃ N ₄ catalysts for hydrogen photo-production: Activity interpretation through a spectroscopic and intrinsic kinetic analysis	URIEL CAUDILLO FLORES Barba-Nieto I. Gómez-Cerezo M.N. et al.	Journal of Environmental Chemical Engineering	2021
22	Towards full-spectrum photocatalysis: Successful approaches and materials	URIEL CAUDILLO FLORES Anna Kubacka Irene Barba-Nieto et al.	APPLIED CATALYSIS A-GENERAL	2021
23	Thermo-photo production of hydrogen using ternary Pt-CeO ₂ -TiO ₂ catalysts: A spectroscopic and mechanistic study	URIEL CAUDILLO FLORES Barba-Nieto I. Muñoz-Batista M.J. et al.	CHEMICAL ENGINEERING JOURNAL	2021
24	Titania-decorated copper oxide nanophotocatalyst powder: A stable and promoted photocatalytic active system	URIEL CAUDILLO FLORES Ansari F. Sheibani S. et al.	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	2021
25	Interpreting quantum efficiency for energy and environmental applications of photo-catalytic materials	URIEL CAUDILLO FLORES Kubacka A. Barba-Nieto I. et al.	CURR OPIN CHEM ENG	2021
26	Assessing quantitatively charge carrier fate in 4-chlorophenol photocatalytic degradation using globular titania catalysts: Implications in quantum efficiency calculation	URIEL CAUDILLO FLORES GABRIEL ALONSO NUÑEZ Avilés-García O. et al.	Journal of Environmental Chemical Engineering	2021

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27	(NH ₄) ₄ [NiMo ₆ O ₂₄ H ₆].5H ₂ O / g-C ₃ N ₄ materials for selective photo-oxidation of C[sbnd]O and C[dbnd]C bonds	URIEL CAUDILLO FLORES Ansari F. Bachiller-Baeza B. et al.	APPLIED CATALYSIS B-ENVIRONMEN TAL	2020
28	Boosting Pt/TiO ₂ hydrogen photoproduction through Zr doping of the anatase structure: A spectroscopic and mechanistic study	URIEL CAUDILLO FLORES Barba-Nieto I. Gómez-Cerezo M.N. et al.	CHEMICAL ENGINEERING JOURNAL	2020
29	Microemulsion: A versatile synthesis tool for photocatalysis	URIEL CAUDILLO FLORES Kubacka A. Barba-Nieto I. et al.	CURR OPIN COLLOID IN	2020
30	Photocatalytic toluene degradation: Braiding physico-chemical and intrinsic kinetic analyses	URIEL CAUDILLO FLORES Fernández-García M. Kubacka A.	REACTION CHEMISTRY & ENGINEERING	2020
31	Facile synthesis of B/g-C ₃ N ₄ composite materials for the continuous-flow selective photo-production of acetone	URIEL CAUDILLO FLORES Rodríguez-Padrón D. Muñoz-Batista M.J. et al.	GREEN CHEMISTRY	2020
32	Effect of calcination process on the gas phase photodegradation by CuO-Cu ₂ O/TiO ₂ nanocomposite photocatalyst	URIEL CAUDILLO FLORES Ansari F. Sheibani S. et al.	Journal Of Ultrafine Grained And Nanostructured Materials	2020
33	Effect of TiO ₂ nanoparticle loading by sol/gel method on the gas-phase photocatalytic activity of Cu _x O/TiO ₂ nanocomposite	URIEL CAUDILLO FLORES Ansari F. Sheibani S. et al.	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	2020
34	Toluene and styrene photo-oxidation quantum efficiency: Comparison between doped and composite tungsten-containing anatase-based catalysts	URIEL CAUDILLO FLORES Muñoz-Batista M.J. Hungría A.B. et al.	APPLIED CATALYSIS B-ENVIRONMEN TAL	2019
35	Toward the Green Production of H ₂ : Binary Pt-Ru Promoted Nb-TiO ₂ Based Photocatalysts	URIEL CAUDILLO FLORES Barba-Nieto I. Gómez-Cerezo M.N. et al.	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	2019
36	g-C ₃ N ₄ /TiO ₂ composite catalysts for the photo-oxidation of toluene: Chemical and charge handling effects	URIEL CAUDILLO FLORES Muñoz-Batista M.J. Luque R. et al.	CHEMICAL ENGINEERING JOURNAL	2019
37	Characterization of Photo-catalysts: From Traditional to Advanced Approaches	URIEL CAUDILLO FLORES Barba-Nieto I. Muñoz-Batista M.J. et al.	Topics In Current Chemistry	2019

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38	Hydrogen thermo-photo production using Ru/TiO ₂ : Heat and light synergistic effects	URIEL CAUDILLO FLORES Agostini G. Marini C. et al.	APPLIED CATALYSIS B-ENVIRONMENTAL	2019
39	Bimetallic Pt-Pd co-catalyst Nb-doped TiO ₂ materials for H ₂ photo-production under UV and Visible light illumination	URIEL CAUDILLO FLORES Muñoz-Batista M.J. Fernández-García M. et al.	APPLIED CATALYSIS B-ENVIRONMENTAL	2018
40	Operando Spectroscopy in Photocatalysis	URIEL CAUDILLO FLORES Muñoz-Batista M.J. Kubacka A. et al.	Chemphotochem	2018
41	Measuring and interpreting quantum efficiency of acid blue 9 photodegradation using TiO ₂ -based catalysts	URIEL CAUDILLO FLORES Muñoz-Batista M.J. Kubacka A. et al.	APPLIED CATALYSIS A-GENERAL	2018
42	UV and visible light driven H ₂ photo-production using Nb-doped TiO ₂ : Comparing Pt and Pd co-catalysts	URIEL CAUDILLO FLORES Muñoz-Batista M.J. Cortés J.A. et al.	Molecular Catalysis	2017
43	Gas phase 2-propanol degradation using titania photocatalysts: Study of the quantum efficiency	URIEL CAUDILLO FLORES Muñoz-Batista M.J. Ung-Medina F. et al.	APPLIED CATALYSIS B-ENVIRONMENTAL	2017



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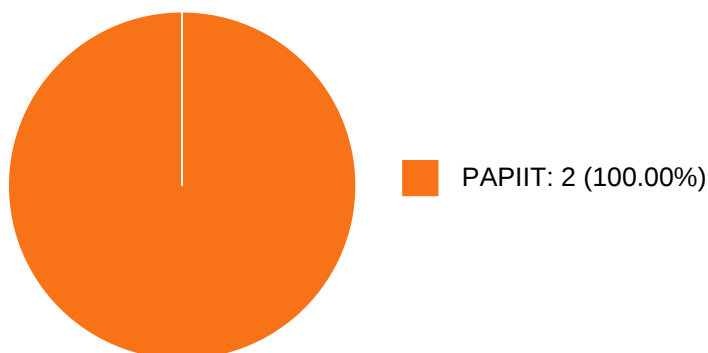
No se encuentran registros en la base de datos de Humanindex asociados a:

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

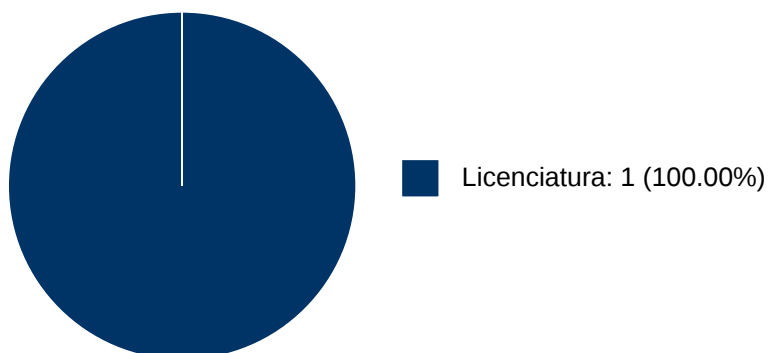


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Uso de luz solar y biomasa para la producción de H2 con catalizadores basados en aleaciones metálicas (Pd-Sn, Pd-Ni) soportados en TiO2 dopado	URIEL CAUDILLO FLORES	Recursos PAPIIT	01-01-2022	31-12-2023
2	Desarrollo de catalizadores eficientes PtNi o PdNi soportados en WO3-TiO2 para producción de H2, por Fotocatálisis Heterogénea	URIEL CAUDILLO FLORES	Recursos PAPIIT	01-01-2024	31-12-2026

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

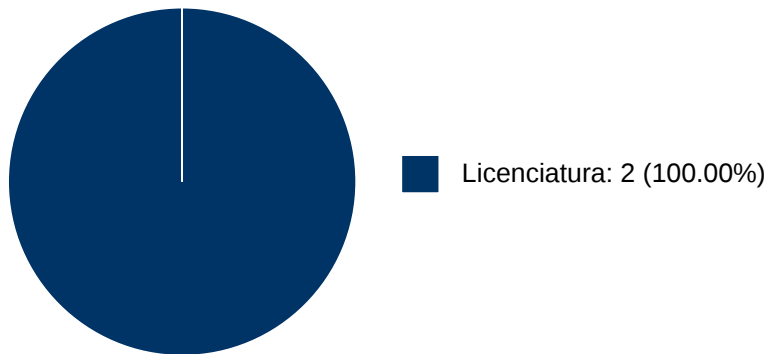


#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Obtención de materiales nanocompuestos de Pd/xCeO ₂ -TiO ₂ (x=cubos, varillas o poliedros) para la producción de H ₂ por fotocatalisis	Tesis de Licenciatura	URIEL CAUDILLO FLORES,	Escobar López, Ciceli,	Centro de Nanociencias y Nanotecnología en la UNAM,	2023

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	REACTORES CATALITICOS	Centro de Nanociencias y Nanotecnología en la UNAM	3	2024-1
2	Licenciatura	REACTORES CATALITICOS	Centro de Nanociencias y Nanotecnología en la UNAM	4	2023-1



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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