



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



**MARIA JOSEFINA ARELLANO JIMENEZ**

## Datos Generales

**Nombre:** MARIA JOSEFINA ARELLANO JIMENEZ

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 5 años

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## Nombramientos

**Último:** TECNICO ACADEMICO TITULAR A TC No Definitivo  
Instituto de Investigaciones en Materiales  
Desde 01-11-2012 hasta 15-03-2014

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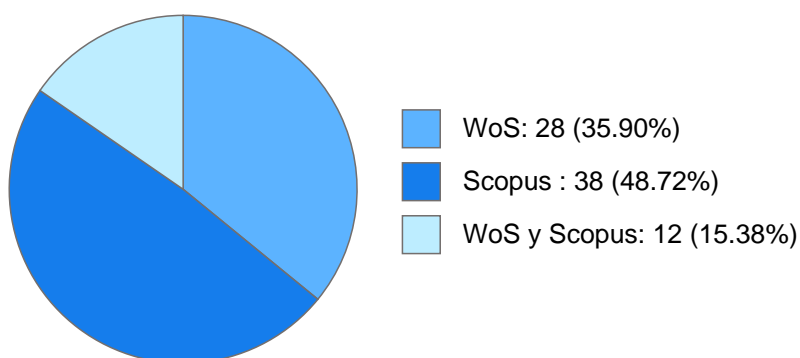
## Estímulos, programas, premios y reconocimientos

PEPASIG Nivel B (Maestría) 2009 - 2010, 3 horas asignadas  
EQUIVALENCIA PRIDE B 2014 - 2014

**MARIA JOSEFINA ARELLANO JIMENEZ**

**DOCUMENTOS EN REVISTAS**

**Histórico de Documentos**



#	Título	Autores	Revista	Año
1	Fungal Mycelium Conversion into Ultrananocrystalline Diamond via Microwave Plasma Pyrolysis	MARIA JOSEFINA ARELLANO JIMENEZ Stein B.E. Auciello O. et al.	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	2022
2	Optical and mechanical properties of Zr-oxide doped TiO <sub>2</sub> /SiO <sub>2</sub> anti-reflective coatings for PV glass covers	MARIA JOSEFINA ARELLANO JIMENEZ Zambrano-Mera D.F. Espinoza-González R. et al.	SOLAR ENERGY MATERIALS AND SOLAR CELLS	2022
3	Mechanical and microstructural properties of broadband anti-reflective TiO <sub>2</sub> /SiO <sub>2</sub> coatings for photovoltaic applications fabricated by magnetron sputtering	MARIA JOSEFINA ARELLANO JIMENEZ Zambrano D.F. Villarroel R. et al.	SOLAR ENERGY MATERIALS AND SOLAR CELLS	2021
4	Electron microscopy study of the carbon-induced 2H-3R-1T phase transition of MoS <sub>2</sub>	LOURDES SOLEDAD BAZAN DIAZ MARIA JOSEFINA ARELLANO JIMENEZ MacChione M.A. et al.	NEW JOURNAL OF CHEMISTRY	2020
5	Fast, facile synthesis method for BAL-mediated PVP-bismuth nanoparticles	ROBERTO VAZQUEZ MUÑOZ MARIA JOSEFINA ARELLANO JIMENEZ Lopez-Ribot J.L.	MethodsX	2020
6	Synthesis and structural analysis of electrodeposited Pb-Co films for oxygen evolution applications	MARIA JOSEFINA ARELLANO JIMENEZ Maril M. Tobosque P. et al.	MATERIALS CHARACTERIZAT ION	2019

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7	Silver Nanoparticles Synthesized with Rumex hymenosepalus: A Strategy to Combat Early Mortality Syndrome (EMS) in a Cultivated White Shrimp	MARIA JOSEFINA ARELLANO JIMENEZ Alvarez-Cirerol F.J. López-Torres M.A. et al.	JOURNAL OF NANOMATERIALS	2019
8	Protocol optimization for a fast, simple and economical chemical reduction synthesis of antimicrobial silver nanoparticles in non-specialized facilities	ROBERTO VAZQUEZ MUÑOZ MARIA JOSEFINA ARELLANO JIMENEZ Lopez F.D. et al.	BMC Research Notes	2019
9	Polycrystalline diamond films with tailored micro/nanostructure/doping for new large area film-based diamond electronics	MARIA JOSEFINA ARELLANO JIMENEZ Alcantar-Peña J.J. de Obaldia E. et al.	DIAMOND AND RELATED MATERIALS	2019
10	Self-Supported Hydrous Iridium-Nickel Oxide Two-Dimensional Nanoframes for High Activity Oxygen Evolution Electrocatalysts	MARIA JOSEFINA ARELLANO JIMENEZ Godínez-Salomón F. Albiter L. et al.	ACS CATALYSIS	2018
11	Mechanochemically obtained Pd <sup>0</sup> Ag nanoframes. Structural considerations and catalytic activity	VICTOR FABIAN RUIZ RUIZ RODRIGO GONZALEZ OLVERA REBECA DIAZ PARDO et al.	Materialia	2018
12	Argon atoms insertion in diamond: New insights in the identification of carbon C 1s peak in X-ray photoelectron spectroscopy analysis	MARIA JOSEFINA ARELLANO JIMENEZ Veyan J.-F. de Obaldia E. et al.	Carbon	2018
13	Zinc oxide decorated multi-walled carbon nanotubes: Their bolometric properties	MARIA JOSEFINA ARELLANO JIMENEZ García-Valdivieso G. Velázquez-Salazar J.J. et al.	Nanotechnology	2018
14	Fundamentals towards large area synthesis of multifunctional Ultrananocrystalline diamond films via large area hot filament chemical vapor deposition bias enhanced nucleation/bias enhanced growth for fabrication of broad range of multifunctional devices	MARIA JOSEFINA ARELLANO JIMENEZ Alcantar-Peña J.J. de Obaldia E. et al.	DIAMOND AND RELATED MATERIALS	2017
15	Metallic Two-Dimensional Nanoframes: Unsupported Hierarchical Nickel-Platinum Alloy Nanoarchitectures with Enhanced Electrochemical Oxygen Reduction Activity and Stability	MARIA JOSEFINA ARELLANO JIMENEZ Godínez-Salomón F. Mendoza-Cruz R. et al.	ACS APPLIED MATERIALS & INTERFACES	2017
16	Integrative structural and advanced imaging characterization of manganese oxide nanotubes doped with cobaltite	LOURDES SOLEDAD BAZAN DIAZ MARIA JOSEFINA ARELLANO JIMENEZ Enrique Samaniego J. et al.	Crystengcomm	2017

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17	High-resolution analytical imaging and electron holography of magnetite particles in amyloid cores of Alzheimer's disease	MARIA JOSEFINA ARELLANO JIMENEZ JOSE ISRAEL BETANCOURT REYES Plascencia-Villa G. et al.	SCIENTIFIC REPORTS	2016
18	High-Performance Hydrogen Evolution from MoS <sub>2</sub> (1-x)P <sub>x</sub> Solid Solution	MARIA JOSEFINA ARELLANO JIMENEZ Ye R. Del Angel-Vicente P. et al.	ADVANCED MATERIALS	2016
19	Ultrastructural changes in methicillin-resistant staphylococcus aureus induced by positively charged silver nanoparticles	MARIA JOSEFINA ARELLANO JIMENEZ Romero-Urbina D.G. Lara H.H. et al.	BEILSTEIN JOURNAL OF NANOTECHNOLOGY	2015
20	Anti-bacterial selenium nanoparticles produced by UV/VIS/NIR pulsed nanosecond laser ablation in liquids	MARIA JOSEFINA ARELLANO JIMENEZ Guisbiers G. Wang Q. et al.	LASER PHYSICS LETTERS	2015
21	Atomic cobalt on nitrogen-doped graphene for hydrogen generation	MARIA JOSEFINA ARELLANO JIMENEZ Fei H. Dong J. et al.	NATURE COMMUNICATIONS	2015
22	Effect of silver nanoparticles on Candida albicans biofilms: An ultrastructural study	MARIA JOSEFINA ARELLANO JIMENEZ Lara H.H. Romero-Urbina D.G. et al.	JOURNAL OF NANOBIO TECHNOLOGY	2015
23	Functionalized carbon nanotube reinforced scaffolds for bone regenerative engineering: Fabrication, in vitro and in vivo evaluation	MARIA JOSEFINA ARELLANO JIMENEZ Mikael P.E. Amini A.R. et al.	BIOMEDICAL MATERIALS	2014
24	Osteopontin expression and localization of Ca <sup>2+</sup> deposits in early stages of osteoarthritis in a rat model	MARIA JOSEFINA ARELLANO JIMENEZ Martinez-Calleja, America Velasquillo, Cristina et al.	HISTOLOGY AND HISTOPATHOLOGY	2014
25	Preparation of functionalized platinum nanoparticles: A comparison of different methods and reagents	MARIA JOSEFINA ARELLANO JIMENEZ Liu G. Carter C.B. et al.	JOURNAL OF NANOPARTICLE RESEARCH	2013
26	Oxygen evolution during water electrolysis from thin films using bimetallic oxides of Ir-Pt and Ir-Ru	MARIA JOSEFINA ARELLANO JIMENEZ Roller, Justin M. Jain, Rishabh et al.	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	2013
27	Catalyst nanoscale assembly from the vapor phase on corrosion resistant supports	MARIA JOSEFINA ARELLANO JIMENEZ Haoran Yu Radenka Maric et al.	ELECTROCHIMICA ACTA	2013
28	Characterization of Zirconia Nanoparticles Produced by Biomimetic Condensation	MARIA JOSEFINA ARELLANO JIMENEZ Hire, C. Adamson, D. et al.	MICROSCOPY AND MICROANALYSIS	2012
29	Polycrystalline TiO <sub>2</sub> Produced by Electrospinning	MARIA JOSEFINA ARELLANO JIMENEZ Suresh, A. McCutcheon, J. et al.	MICROSCOPY AND MICROANALYSIS	2012

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30	Understanding the Micro-structural Evolution of Cobalt-doped Ceria with Respect to Sintering Temperature using FIB and TEM	MARIA JOSEFINA ARELLANO JIMENEZ Suresh, A. Wilhite, B.A. et al.	MICROSCOPY AND MICROANALYSIS	2012
31	Ultramicrotoming Pt Catalyzed Substrates and Dispersion Supports	MARIA JOSEFINA ARELLANO JIMENEZ Roller, J. Bogart, J. et al.	MICROSCOPY AND MICROANALYSIS	2012
32	Microtomy of Reinforced Polymer Scaffolds	MARIA JOSEFINA ARELLANO JIMENEZ Bogart, J. Carter, C.B. et al.	MICROSCOPY AND MICROANALYSIS	2012
33	ON THE OBSERVATION OF THE HAP-OCP INTERFACE BY ELECTRON MICROSCOPY	JOSE REYES GASGA MARIA JOSEFINA ARELLANO JIMENEZ RAMIRO GARCIA GARCIA	ACTA MICROSCOPICA	2010
34	Synthesis and hydrolysis of octacalcium phosphate and its characterization by electron microscopy and X-ray diffraction	MARIA JOSEFINA ARELLANO JIMENEZ RAMIRO GARCIA GARCIA JOSE REYES GASGA	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2009
35	Structural and thermal behaviour of human tooth and three synthetic hydroxyapatites from 20 to 600 degrees C	JOSE REYES GASGA RAMIRO GARCIA GARCIA MARIA JOSEFINA ARELLANO JIMENEZ et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2008
36	Characterization of hydroxyapatite by electron microscopy	MARIA JOSEFINA ARELLANO JIMENEZ Rodríguez-Lugo V. Sanchez Hernández J. et al.	MICROSCOPY AND MICROANALYSIS	2005
37	Electron microscopy characterization of hydroxyapatite obtained by hydrothermal synthesis	MARIA JOSEFINA ARELLANO JIMENEZ JOSE REYES GASGA Rodríguez Lugo V.	MICROSCOPY AND MICROANALYSIS	2003
38	Characterization of hydroxyapatite by electron microscopy	MARIA JOSEFINA ARELLANO JIMENEZ Sánchez Hernández J. Rodríguez Lugo V.	MICROSCOPY AND MICROANALYSIS	2003



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**MARIA JOSEFINA ARELLANO JIMENEZ**

**LIBROS Y CAPITULOS CON ISBN**

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

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**MARIA JOSEFINA ARELLANO JIMENEZ**

**PARTICIPACIÓN EN PROYECTOS**

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

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**MARIA JOSEFINA ARELLANO JIMENEZ**

**PARTICIPACIÓN EN TESIS**

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

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**MARIA JOSEFINA ARELLANO JIMENEZ**

**DOCENCIA IMPARTIDA**

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

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**MARIA JOSEFINA ARELLANO JIMENEZ**

**TUTORIAS EN POSGRADO**

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

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**MARIA JOSEFINA ARELLANO JIMENEZ**

**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	2008-2024
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