



**Sistema Integral de Información Académica**  
**Dirección General de Evaluación Institucional**  
**Reporte de Producción Académica**



**LOURDES SOLEDAD BAZAN DIAZ**

## Datos Generales

**Nombre:** LOURDES SOLEDAD BAZAN DIAZ

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 6 años

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## Nombramientos

**Vigente:** TECNICO ACADEMICO TITULAR A TC No Definitivo  
Instituto de Investigaciones en Materiales  
Desde 01-09-2019  
Desde 01-09-2019 PROFESOR ASIGNATURA A TP No Definitivo  
Facultad de Ciencias  
Desde 16-09-2023

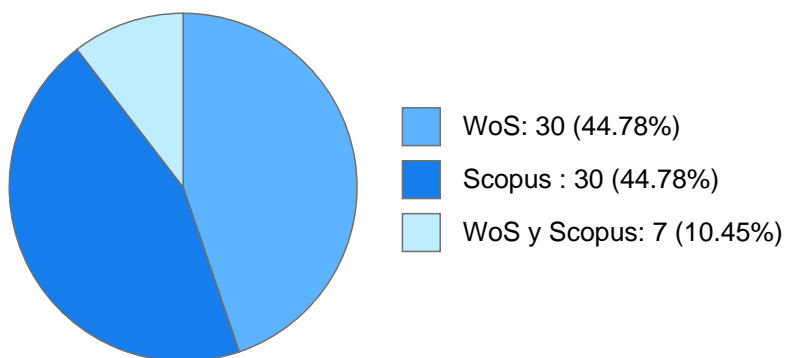
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## Estímulos, programas, premios y reconocimientos

SNI I 2018 - 2023  
EQUIVALENCIA PRIDE B 2020 - 2022

## DOCUMENTOS EN REVISTAS

### Histórico de Documentos



| # | Título   | Autores  | Revista                                | Año  |
|---|--|--|--|------|
| 1 | Using Recycled Tetrapak and Doped Titanyl/Vanadyl Phthalocyanine to Make Solid-State Devices   | LOURDES SOLEDAD BAZAN DIAZ<br>ROBERTO RENE SALCEDO PINTOS<br>Sánchez Vergara M.E. et al. | Materials                              | 2024 |
| 2 | Experimental High-Resolution Observation of the Truncated Double-Icosahedron Structure: A Stable Twinned Shell in Alloyed Au-Ag Core@Shell Nanoparticles | RUBEN MENDOZA CRUZ STEPHAN<br>MARIO LOPEZ LOPEZ LOURDES<br>SOLEDAD BAZAN DIAZ et al.     | NANO LETTERS                           | 2024 |
| 3 | Spiers Memorial Lecture: Nanoalloys of multiple components; the road to advance the field and experimental and theoretical challenges                    | RUBEN MENDOZA CRUZ LOURDES<br>SOLEDAD BAZAN DIAZ Alexander<br>Lehr et al.                | FARADAY<br>DISCUSSIONS                 | 2023 |
| 4 | Decahedra and Icosahedra Everywhere: The Anomalous Crystallization of Au and Other Metals at the Nanoscale   | RUBEN MENDOZA CRUZ LOURDES<br>SOLEDAD BAZAN DIAZ Rogers B. et al.                        | CRYST RES<br>TECHNOL                   | 2023 |
| 5 | PDDA induced step-pyramidal growth of nickel-platinum (Ni-Pt) nanoparticles for enhanced 4-nitrophenol reduction   | LOURDES SOLEDAD BAZAN DIAZ<br>RUBEN MENDOZA CRUZ Ariadna<br>Perez et al.                 | CHEMICAL<br>COMMUNICATIO<br>NS         | 2023 |
| 6 | Decay emission study of ZnO nanostructures obtained by low-pressure vapor transport technique  | ANDRES GALDAMEZ MARTINEZ ATEET<br>DUTT LOURDES SOLEDAD BAZAN DIAZ<br>et al.              | Applied Surface<br>Science<br>Advances | 2022 |



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|----|--|---|---|------|
| 7  | Spectroscopic analysis and nuclear magnetic resonance for silver nanoparticles synthesized with trans-resveratrol and cis-resveratrol                                  | RUBEN MENDOZA CRUZ LOURDES SOLEDAD BAZAN DIAZ Blanca E. Rodriguez Vazquez et al.                  | COLLOID AND POLYMER SCIENCE                         | 2022 |
| 8  | Graphene oxide bifunctionalized with NH <sub>2</sub> /NH <sub>3</sub> <sup>+</sup> and their outstanding-performance against corrosion                                 | LOURDES SOLEDAD BAZAN DIAZ Edgar H. Ramirez-Soria Ulises Leon-Silva et al.                        | APPLIED SURFACE SCIENCE                             | 2021 |
| 9  | Microwave-assisted synthesis of ceria nanoparticles on carbon nanotubes and their dye-removal assesstment  | SERGIO JOAQUIN JIMENEZ SANDOVAL LOURDES SOLEDAD BAZAN DIAZ RUBEN MENDOZA CRUZ et al.              | JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-J MR&T | 2021 |
| 10 | Particle size and convergent electron diffraction patterns of triangular prismatic gold nanoparticles  | LOURDES SOLEDAD BAZAN DIAZ JOSE REYES GASGA C. Fernando-Marquez et al.                            | REVISTA MEXICANA DE FISICA                          | 2021 |
| 11 | Gold Nanoclusters, Gold Nanoparticles, and Analytical Techniques for Their Characterization  | German Plascencia Villa RUBEN MENDOZA CRUZ LOURDES SOLEDAD BAZAN DIAZ et al.                      | Methods in Molecular Biology                        | 2020 |
| 12 | The preparation and characterization of co <sup>2+</sup> ni nanoparticles and the testing of a heterogenized co <sup>2+</sup> ni/alumina catalyst for co hydrogenation | LOURDES SOLEDAD BAZAN DIAZ López-Tinoco J. Mendoza-Cruz R. et al.                                 | CATALYSTS   | 2020 |
| 13 | 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 |
| 14 | Revisiting the conformational adsorption of L- and D-cysteine on Au nanoparticles by Raman spectroscopy  | PENELOPE RODRIGUEZ ZAMORA CEDRIC ALEXANDER CORDERO SILIS LOURDES SOLEDAD BAZAN DIAZ et al.        | JOURNAL OF RAMAN SPECTROSCOPY                       | 2020 |
| 15 | A comparative study of the synthesis and cathodoluminescence of BiOCl nanostructures using synthetic tannins   | FRANCISCO MIGUEL ASCENCIO AGUIRRE JOSE OCTAVIO ESTEVEZ ESPINOZA LOURDES SOLEDAD BAZAN DIAZ et al. | Materials Today Communications                      | 2020 |
| 16 | Orthorhombic distortion in Au nanoparticles induced by high pressure   | LOURDES SOLEDAD BAZAN DIAZ Mendoza-Cruz R. Parajuli P. et al.                                     | Crystengcomm  | 2019 |
| 17 | Asymmetric Deposition of Platinum Atoms on Gold Nanorods Reduced the Plasmon Field Distortion Induced by the Substrate   | LOURDES SOLEDAD BAZAN DIAZ RUBEN MENDOZA CRUZ Liao C.-K. et al.                                   | JOURNAL OF PHYSICAL CHEMISTRY C                     | 2019 |



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|----|--|--|--|------|
| 18 | Controlled Overgrowth of Five-Fold Concave Nanoparticles into Plasmonic Nanostars and Their Single-Particle Scattering Properties                      | LOURDES SOLEDAD BAZAN DIAZ<br>RUBEN MENDOZA CRUZ<br>Velázquez-Salazar J.J. et al.              | Acs Nano   | 2019 |
| 19 | Synthesis and Properties of the Self-Assembly of Gold-Copper Nanoparticles into Nanoribbons  | LOURDES SOLEDAD BAZAN DIAZ<br>FRANCISCO MIGUEL ASCENCIO<br>AGUIRRE RAUL HERRERA BECERRA et al. | Langmuir   | 2018 |
| 20 | Size and Shape Effects on the Phase Diagrams of Nickel-Based Bimetallic Nanoalloys   | LOURDES SOLEDAD BAZAN DIAZ<br>Guisbiers G. Mendoza-Pérez R. et al.                             | JOURNAL OF PHYSICAL CHEMISTRY C                  | 2017 |
| 21 | Silver/zinc oxide self-assembled nanostructured bolometer  | LOURDES SOLEDAD BAZAN DIAZ<br>Sanchez J.E. Velazquez-Salazar J.J. et al.                       | INFRARED PHYSICS & TECHNOLOGY                    | 2017 |
| 22 | Integrative structural and advanced imaging characterization of manganese oxide nanotubes doped with cobaltite   | LOURDES SOLEDAD BAZAN DIAZ<br>MARIA JOSEFINA ARELLANO JIMENEZ<br>Enrique Samaniego J. et al.   | Crystengcomm                                     | 2017 |
| 23 | Chemical synthesis and characterization of bismuth oxychloride BiOCl nanoparticles   | FRANCISCO MIGUEL ASCENCIO<br>AGUIRRE ALFREDO GOMEZ<br>RODRIGUEZ RAUL HERRERA BECERRA et al.    | APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING | 2017 |
| 24 | Evaporation of Gold on NaCl Surfaces as a Way to Control Spatial Distribution of Nanoparticles: Insights on the Shape and Crystallographic Orientation | LUIS DAVID FERNANDO ROMEU<br>CASAJUANA LOURDES SOLEDAD BAZAN DIAZ Mendoza-Cruz, R. et al.      | CRYSTAL GROWTH & DESIGN                          | 2017 |
| 25 | Order-disorder phase transitions in Au-Cu nanocubes: from nano-thermodynamics to synthesis   | FRANCISCO MIGUEL ASCENCIO<br>AGUIRRE RAUL HERRERA BECERRA<br>LOURDES SOLEDAD BAZAN DIAZ et al. | Nanoscale  | 2017 |
| 26 | Tannic acid assisted synthesis of flake-like hydroxyapatite nanostructures at room temperature   | MARICELA SANTANA VAZQUEZ<br>FRANCISCO MIGUEL ASCENCIO<br>AGUIRRE RAUL HERRERA BECERRA et al.   | APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING | 2016 |
| 27 | Response to ?Comment on ?Electrum, the Gold-Silver Alloy, from the Bulk Scale to the Nanoscale: Synthesis, Properties, and Segregation Rules??         | LOURDES SOLEDAD BAZAN DIAZ<br>Guisbiers G. Mendoza-Cruz R. et al.                              | Acs Nano   | 2016 |
| 28 | In situ transmission electron microscopy mechanical deformation and fracture of a silver nanowire  | LOURDES SOLEDAD BAZAN DIAZ<br>Alducin D. Borja R. et al.                                       | SCRIPTA MATERIALIA                               | 2016 |



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|    |   |  |                    |      |
|----|---|--|--------------------|------|
| 29 | Electrum, the Gold-Silver Alloy, from the Bulk Scale to the Nanoscale: Synthesis, Properties, and Segregation Rules | LOURDES SOLEDAD BAZAN DIAZ<br>Guisbiers, Gregory Mendoza-Cruz,<br>Ruben et al.               | Acs Nano           | 2016 |
| 30 | Helical Growth of Ultrathin Gold-Copper Nanowires   | LOURDES SOLEDAD BAZAN DIAZ JOSE<br>REYES GASGA LUIS DAVID FERNANDO<br>ROMEU CASAJUANA et al. | NANO LETTERS       | 2016 |
| 31 | A stable multiply twinned decahedral gold nanoparticle with a barrel-like shape                                     | JOSE REYES GASGA LOURDES<br>SOLEDAD BAZAN DIAZ Santiago,<br>Ulises et al.                    | SURFACE<br>SCIENCE | 2016 |



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**LOURDES SOLEDAD BAZAN DIAZ**

**LIBROS Y CAPITULOS CON ISBN**

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

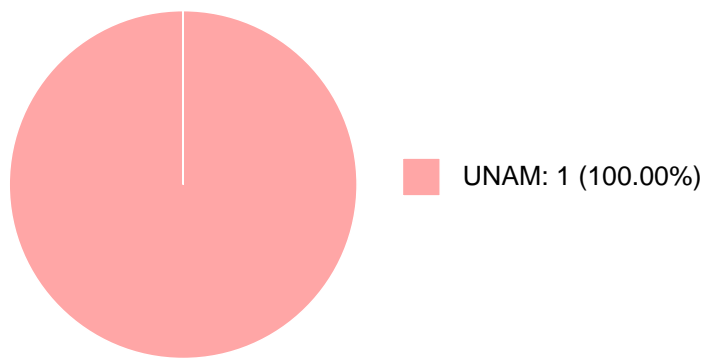
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## PARTICIPACIÓN EN PROYECTOS

### Histórico de participación en proyectos



| # | Nombre                   | Participantes              | Fuente   | Fecha inicio | Fecha fin  |
|---|--------------------------|----------------------------|--|--------------|------------|
| 1 | Microscopia electrónica. | LOURDES SOLEDAD BAZAN DIAZ | Presupuesto de la UNAM asignado a la Dependencia | 01-01-2021   | 31-12-2024 |



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**LOURDES SOLEDAD BAZAN DIAZ**

**PARTICIPACIÓN EN TESIS**

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

**LOURDES SOLEDAD BAZAN DIAZ**





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**LOURDES SOLEDAD BAZAN DIAZ**

**DOCENCIA IMPARTIDA**

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

**LOURDES SOLEDAD BAZAN DIAZ**



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**LOURDES SOLEDAD BAZAN DIAZ**

**TUTORIAS EN POSGRADO**

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

**LOURDES SOLEDAD BAZAN DIAZ**



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**LOURDES SOLEDAD BAZAN DIAZ**

**PATENTES**

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

**LOURDES SOLEDAD BAZAN DIAZ**



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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    | 2008-2023 |
| 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 |