



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



**CARLOS MAURICIO MALDONADO DOMINGUEZ**

## Datos Generales

**Nombre:** CARLOS MAURICIO MALDONADO DOMINGUEZ

**Máximo nivel de estudios:**

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

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## Nombramientos

**Vigente:** PROFESOR DE CARRERA ASOCIADO C TC No Definitivo  
Facultad de Química  
Desde 16-05-2024

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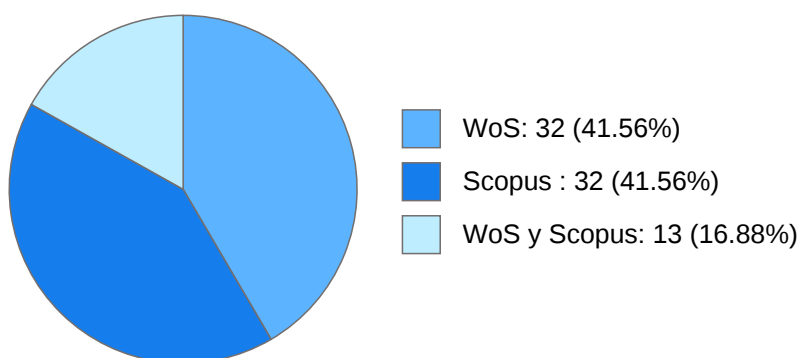
## Estímulos, programas, premios y reconocimientos

SNI IVIGENTE  
SNI I 2017 - 2023  
EQUIVALENCIA PRIDE B 2023 - 2024

**CARLOS MAURICIO MALDONADO DOMINGUEZ**

**DOCUMENTOS EN REVISTAS**

**Histórico de Documentos**



| # | Título                                                                                                                                                                                             | Autores                                                                                                        | Revista                              | Año  |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------|------|
| 1 | Reshaping the aggregation landscape of benzothiadiazole employing steroidal scaffolds and conformationally free alkyne tethers                                                                     | VIOLETA ALVAREZ VENICIO<br>MARGARITA ROMERO AVILA MARIA<br>DEL PILAR CARREON CASTRO et al.                     | JOURNAL OF<br>MOLECULAR<br>STRUCTURE | 2025 |
| 2 | Synthesis and characterization of carbohydrate dimers based on $\alpha$ - and $\beta$ -D-phenyl glucopyranosides cores linked by fluorescent bridges                                               | JOSUE VAZQUEZ CHAVEZ CARLOS<br>MAURICIO MALDONADO DOMINGUEZ<br>ANDRES AGUILAR GRANDA et al.                    | JOURNAL OF<br>MOLECULAR<br>STRUCTURE | 2025 |
| 3 | Low-Temperature Dynamics at Nano- and Macroscales: Organic Crystal That Exhibits Low-Temperature Molecular Motion and the Thermosolvent Effect                                                     | JOSE LUIS BELMONTE VAZQUEZ<br>CARLOS MAURICIO MALDONADO<br>DOMINGUEZ BRAULIO VICTOR<br>RODRIGUEZ MOLINA et al. | CHEMISTRY OF<br>MATERIALS            | 2025 |
| 4 | Antibacterial Effect, ADMET Properties, and Molecular Docking of Morpholine Derivatives with Varying Alkyl Chain Length Against Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA) Isolates | MARGARITA ROMERO AVILA CARLOS<br>MAURICIO MALDONADO DOMINGUEZ<br>BLAS FLORES PEREZ et al.                      | Chemistryselec<br>t                  | 2024 |
| 5 | Heterocycles as supramolecular handles for crystal engineering: a case study with 7-(diethylamino)coumarin derivatives                                                                             | GERALDYNE LIZBETH CASTRO<br>HERRERA MARGARITA ROMERO AVILA<br>JOSE NORBERTO FARFAN GARCIA et al.               | RSC ADVANCES                         | 2024 |

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|    |                                                                                                                                                                                                                                   |                                                                                                             |                                                                    |      |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------|
| 6  | A Crystalline Dimeric Steroidal Diboronate with Electronically Impeded Rotation                                                                                                                                                   | MARCOS FLORES ALAMO CARLOS MAURICIO MALDONADO DOMINGUEZ BRAULIO VICTOR RODRIGUEZ MOLINA et al.              | JOURNAL OF ORGANIC CHEMISTRY                                       | 2023 |
| 7  | Mechanistic Insights on Pd-Catalyzed Three-Component Reactions of Alkynols, Methyl Orthoformate, and Salicylaldehyde Derivatives. Application to the Synthesis of Steroid Chroman Ketals and Spiroketal with Antioxidant Activity | MARTHA CRISTINA MAYORQUIN TORRES CARLOS MAURICIO MALDONADO DOMINGUEZ OMAR NOEL MEDINA CAMPOS et al.         | JOURNAL OF ORGANIC CHEMISTRY                                       | 2023 |
| 8  | Effect of the rc-bridge on the light absorption and emission in push-pull coumarins and on their supramolecular organization                                                                                                      | ROSALBA MONTSERRAT MIRANDA OLVERA MARIA DEL PILAR CARREON CASTRO CARLOS MAURICIO MALDONADO DOMINGUEZ et al. | SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY | 2022 |
| 9  | Synthesis and Characterization of Hybrid Dimeric Steroid Spiroketal                                                                                                                                                               | MARTHA CRISTINA MAYORQUIN TORRES CARLOS MAURICIO MALDONADO DOMINGUEZ MARCOS FLORES ALAMO et al.             | Synthesis-Stuttgart                                                | 2022 |
| 10 | Design and synthesis of benzothiadiazole-based molecular systems: self-assembly, optical and electronic properties                                                                                                                | ROSALBA MONTSERRAT MIRANDA OLVERA RAFAEL OMAR ARCOS RAMOS CARLOS MAURICIO MALDONADO DOMINGUEZ et al.        | NEW JOURNAL OF CHEMISTRY                                           | 2022 |
| 11 | Self-Assembly of an Amphiphilic Bile Acid Dimer: A Combined Experimental and Theoretical Study of Its Medium-Responsive Fluorescence                                                                                              | ANDRES AGUILAR GRANDA AARON TORRES HUERTA MARCOS FLORES ALAMO et al.                                        | JOURNAL OF ORGANIC CHEMISTRY                                       | 2022 |
| 12 | Turing patterns by supramolecular self-assembly of a single salphen building block                                                                                                                                                | MARTHA VERONICA ESCARCEGA BOBADILLA CARLOS MAURICIO MALDONADO DOMINGUEZ MARGARITA ROMERO AVILA et al.       | Iscience                                                           | 2022 |
| 13 | Oleate-modified hyaluronan: Controlling the number and distribution of side chains by varying the reaction conditions                                                                                                             | CARLOS MAURICIO MALDONADO DOMINGUEZ ?trympl O. Vohlídal J. et al.                                           | CARBOHYDRATE POLYMERS                                              | 2021 |
| 14 | Bifurcating reactions: distribution of products from energy distribution in a shared reactive mode                                                                                                                                | CARLOS MAURICIO MALDONADO DOMINGUEZ Bharadwaz P. Srnec M.                                                   | CHEMICAL SCIENCE                                                   | 2021 |
| 15 | Palladium-Catalyzed Generation of ortho-Quinone Methides. A Three-Component Synthesis of L-Shaped Dimeric Steroidal Scaffolds                                                                                                     | MARTHA CRISTINA MAYORQUIN TORRES CARLOS MAURICIO MALDONADO DOMINGUEZ MARCOS FLORES ALAMO et al.             | JOURNAL OF ORGANIC CHEMISTRY                                       | 2021 |

**CARLOS MAURICIO MALDONADO DOMINGUEZ**

|    |                                                                                                                                                   |                                                                                               |                                                                                 |      |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------|
| 16 | Passive organic cationic tracers for carbonate formations: Development and performance at oil reservoir emulating conditions                      | CARLOS MAURICIO MALDONADO DOMINGUEZ OSCAR GONZALEZ ANTONIO MARCO ANTONIO ALMARAZ GIRON et al. | Fuel                                                                            | 2021 |
| 17 | Understanding and Predicting Post H-Atom Abstraction Selectivity through Reactive Mode Composition Factor Analysis                                | CARLOS MAURICIO MALDONADO DOMINGUEZ Srnec M.                                                  | JOURNAL OF THE AMERICAN CHEMICAL SOCIETY                                        | 2020 |
| 18 | Reactive mode composition factor analysis of transition states: The case of coupled electron-proton transfers                                     | CARLOS MAURICIO MALDONADO DOMINGUEZ Bím D. Fucík R. et al.                                    | PHYSICAL CHEMISTRY CHEMICAL PHYSICS                                             | 2019 |
| 19 | Dissecting the Temperature Dependence of Electron-Proton Transfer Reactivity                                                                      | CARLOS MAURICIO MALDONADO DOMINGUEZ Bím D. Fucík R. et al.                                    | JOURNAL OF PHYSICAL CHEMISTRY C                                                 | 2019 |
| 20 | Beyond the classical thermodynamic contributions to hydrogen atom abstraction reactivity                                                          | CARLOS MAURICIO MALDONADO DOMINGUEZ Bím D. Rulísek L. et al.                                  | PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA | 2018 |
| 21 | 3-Substituted-7-(diethylamino)coumarins as molecular scaffolds for the bottom-up self-assembly of solids with extensive pi-stacking               | RAFAEL OMAR ARCOS RAMOS CARLOS MAURICIO MALDONADO DOMINGUEZ JAVIER ORDOÑEZ HERNANDEZ et al.   | JOURNAL OF MOLECULAR STRUCTURE                                                  | 2017 |
| 22 | Synthesis of steroidal molecular compasses: exploration of the controlled assembly of solid organic materials                                     | CARLOS MAURICIO MALDONADO DOMINGUEZ RAFAEL OMAR ARCOS RAMOS MARGARITA ROMERO AVILA et al.     | Crystengcomm                                                                    | 2017 |
| 23 | Synthesis of 1,3-and 1,2,3-functionalized pyrroles via Ir(I)-catalyzed vinylation of allyl alcohols                                               | CARLOS MAURICIO MALDONADO DOMINGUEZ MARGARITA ROMERO AVILA JOSE MANUEL MENDEZ STIVALET et al. | CHEMISTRY OF HETEROCYCLIC COMPOUNDS                                             | 2017 |
| 24 | Experimental-Theoretical Approach to the Adsorption Mechanisms for Anionic, Cationic, and Zwitterionic Surfactants at the Calcite-Water Interface | CARLOS MAURICIO MALDONADO DOMINGUEZ OSCAR GONZALEZ ANTONIO MARGARITA ROMERO AVILA et al.      | Langmuir                                                                        | 2016 |
| 25 | On the structure of meso-substituted F-BODIPYs and their assembly in molecular crystals: An experimental-theoretical approach                     | ALISUL ATZIN ISLAS MEJIA HECTOR GARCIA ORTEGA MARGARITA ROMERO AVILA et al.                   | JOURNAL OF ORGANOMETALLIC CHEMISTRY                                             | 2016 |

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|    |                                                                                                                                                             |                                                                                                        |                                                   |      |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------|------|
| 26 | Structural and morphological studies of meso-ethylcarbazole F-BODIPY thin films                                                                             | RAFAEL OMAR ARCOS RAMOS<br>CARLOS MAURICIO MALDONADO<br>DOMINGUEZ HECTOR GARCIA<br>ORTEGA et al.       | MONATSHFTE<br>FUR CHEMIE                          | 2016 |
| 27 | On the Brassard's rule of regioselectivity in Diels-Alder reactions between haloquinones and polar dienes                                                   | CARLOS MAURICIO MALDONADO<br>DOMINGUEZ OSCAR GONZALEZ<br>ANTONIO MARGARITA ROMERO AVILA<br>et al.      | RSC ADVANCES                                      | 2016 |
| 28 | Engineering organic semiconducting solids. Multicomponent access to crystalline 3-(4-aryl-1,2,3-triazolyl)coumarins                                         | CLAUDIO CESAR DE LA CERDA<br>NEGRET RAOUL ARCOS RAMOS<br>CARLOS MAURICIO MALDONADO<br>DOMINGUEZ et al. | Crystengcomm                                      | 2016 |
| 29 | On the molecular structure of (E)-3-(9H-fluoren-2-yl)-1-(pyridin-2-yl) prop-2-en-1-one, theoretical calculations and SXRD studies                           | PABLO LABRA VAZQUEZ Alejandra<br>Zaavik LugoAranda CARLOS<br>MAURICIO MALDONADO DOMINGUEZ<br>et al.    | JOURNAL OF<br>MOLECULAR<br>STRUCTURE              | 2015 |
| 30 | Design, synthesis, in vitro evaluation and preliminary SAR studies of N-(2-(heteroaryloxy)propyl)phenothiazines against Rhipicephalus microplus cattle tick | CARLOS MAURICIO MALDONADO<br>DOMINGUEZ David Alavez Rosas<br>Humberto Aguilar et al.                   | BIOORGANIC &<br>MEDICINAL<br>CHEMISTRY<br>LETTERS | 2014 |
| 31 | The amide bridge in donor-acceptor systems: Delocalization depends on push-pull stress                                                                      | CARLOS MAURICIO MALDONADO<br>DOMINGUEZ RAFAEL OMAR ARCOS<br>RAMOS MARGARITA ROMERO AVILA<br>et al.     | NEW JOURNAL<br>OF CHEMISTRY                       | 2014 |
| 32 | Effect of an herbivorous diet on energy balance of Litopenaeus vannamei at selected ontogenetic stages                                                      | CARLOS MAURICIO MALDONADO<br>DOMINGUEZ Emilio Guzman LUIS<br>ARTURO SOTO GONZALEZ et al.               | Aquaculture                                       | 2009 |



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**LIBROS Y CAPITULOS CON ISBN**

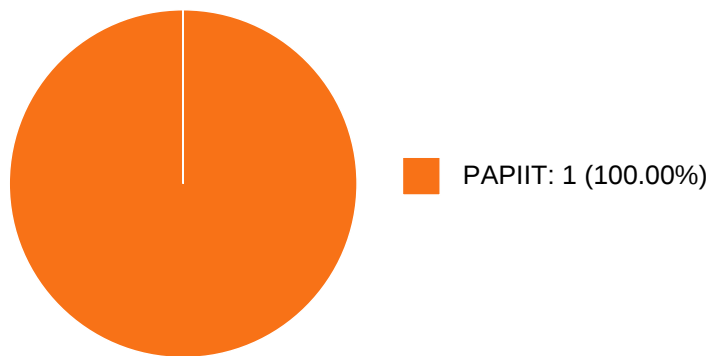
**No se encuentran registros en la base de datos de Humanindex asociados a:**

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**PARTICIPACIÓN EN PROYECTOS**

**Histórico de participación en proyectos**



| # | Nombre                                                                                          | Participantes                       | Fuente          | Fecha inicio | Fecha fin  |
|---|-------------------------------------------------------------------------------------------------|-------------------------------------|-----------------|--------------|------------|
| 1 | Síntesis de compuestos bioactivos empleando técnicas de funcionalización tardía y fotocatálisis | CARLOS MAURICIO MALDONADO DOMINGUEZ | Recursos PAPIIT | 01-01-2024   | 31-12-2025 |



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**PARTICIPACIÓN EN TESIS**

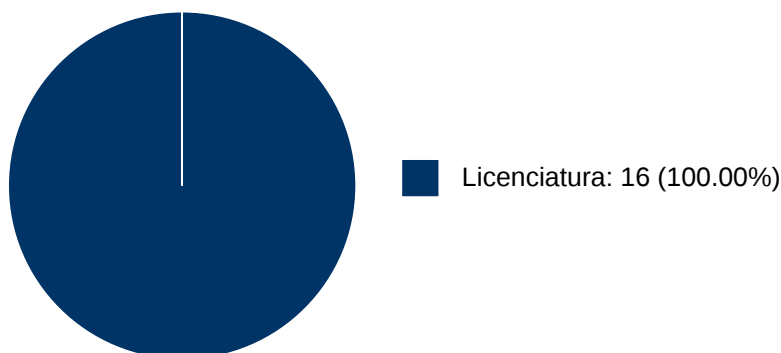
**No se encuentran registros en la base de datos de TESIUNAM asociados a:**

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**DOCENCIA IMPARTIDA**

**Histórico de docencia**



| #  | Nivel titulación | Asignatura          | Entidad             | Alumnos | Semestre |
|----|------------------|---------------------|---------------------|---------|----------|
| 1  | Licenciatura     | QUIMICA ORGANICA I  | Facultad de Química | 53      | 2025-2   |
| 2  | Licenciatura     | QUIMICA ORGANICA II | Facultad de Química | 22      | 2025-2   |
| 3  | Licenciatura     | SEMINARIO I         | Facultad de Química | 19      | 2025-2   |
| 4  | Licenciatura     | QUIMICA ORGANICA I  | Facultad de Química | 50      | 2025-1   |
| 5  | Licenciatura     | QUIMICA ORGANICA II | Facultad de Química | 37      | 2025-1   |
| 6  | Licenciatura     | SEMINARIO I         | Facultad de Química | 28      | 2025-1   |
| 7  | Licenciatura     | QUIMICA ORGANICA I  | Facultad de Química | 44      | 2024-2   |
| 8  | Licenciatura     | QUIMICA ORGANICA II | Facultad de Química | 62      | 2024-2   |
| 9  | Licenciatura     | QUIMICA ORGANICA II | Facultad de Química | 47      | 2024-2   |
| 10 | Licenciatura     | QUIMICA ORGANICA I  | Facultad de Química | 57      | 2024-1   |
| 11 | Licenciatura     | QUIMICA ORGANICA II | Facultad de Química | 45      | 2024-1   |
| 12 | Licenciatura     | QUIMICA ORGANICA II | Facultad de Química | 49      | 2023-2   |
| 13 | Licenciatura     | QUIMICA ORGANICA I  | Facultad de Química | 50      | 2015-1   |
| 14 | Licenciatura     | QUIMICA ORGANICA I  | Facultad de Química | 44      | 2013-1   |
| 15 | Licenciatura     | QUIMICA ORGANICA I  | Facultad de Química | 24      | 2012-2   |
| 16 | Licenciatura     | QUIMICA ORGANICA I  | Facultad de Química | 43      | 2012-1   |



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**PATENTES**

| # | Título                                                                                                                                                                  | Inventores                                                                                              | Sección               | Año  |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------|------|
| 1 | PROCESO DE SÍNTESIS PARA LA OBTENCIÓN DE SALES CATIÓNICAS CUATERNARIAS UTILES COMO TRAZADORES QUIMICOS EN YACIMIENTOS CARBONATADOS, Y PRODUCTOS OBTENIDOS CON EL MISMO. | CARLOS MAURICIO MALDONADO DOMINGUEZ, JOSE FERNANDO BARRAGAN AROCHE, MARCO ANTONIO ALMARAZ GIRON, et al. | CHEMISTRY; METALLURGY | 2022 |

**CARLOS MAURICIO MALDONADO DOMINGUEZ**

**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 |