

MA. DEL SOCORRO AGUILAR HERNÁNDEZ

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Nombre completo

Ma. Del Socorro Aguilar Hernández

Categoría: Investigadora posdoctoral

Formación

Carrera: Licenciatura en Ciencias Físico-Matemáticas, Universidad Michoacana de San Nicolás de Hidalgo. Morelia, Michoacán, 25/08/2010.

Doctorado (Último grado): Doctorado en Ciencias en Metalurgia y Ciencias de los materiales. Universidad Michoacana de San Nicolás de Hidalgo. Morelia, Michoacán, 27/08/2019.

Posdoctorado: Universidad Michoacana de San Nicolás de Hidalgo, Morelia, Michoacán, 1/10/2021-30/09/2026

Reconocimiento SNI

NIVEL: Candidato

Vigencia: 01/01/2023-31/12/2026

PRODEP

Si ___ No

Vigencia: no aplica

Línea de Investigación e Incidencia Social (LIES)

LIES-2: Caracterización y Análisis de Materiales.

Publicaciones

1.- Synthesis of Cu nanoparticles by chemical reduction method (2019)

[https://doi.org/10.1016/S1003-6326\(19\)65058-2](https://doi.org/10.1016/S1003-6326(19)65058-2)

2.-Facile synthesis of Cu₂O particles with different morphologies (2019)

<https://doi.org/10.1016/j.jssc.2018.11.019>

3.-A new synthesis of Cu₂O spherical particles for the degradation of methylene blue dye (2019), <https://doi.org/10.1016/j.enmm.2018.100195>

4.-Time-dependent facile synthesis of CuO hedgehog-like nanostructures and their catalytic activity (2019) <https://doi.org/10.1016/j.jssc.2019.05.034>

5.-Green Synthesis of Gold Nanoparticles Using *Origanum vulgare* (2019)

[doi:10.1017/S1431927619012625](https://doi.org/10.1017/S1431927619012625)

6.- Green Synthesis of Silver Nanoparticles Using *Valeriana*

officinalis Aqueous Extract (2018)

[doi:10.1017/S1431927618009121](https://doi.org/10.1017/S1431927618009121)

7.-Photoelectrochemical Study of the Performance Enhancement of CNT-Based Counter Electrodes by Adding NS Doped rGO in QD Solar Cells (2022)

<https://doi.org/10.1007/s11664-024-11606-8>

8.-Photoelectrochemical Study of the Performance Enhancement of CNT-Based Counter Electrodes by Adding NS Doped rGO in QD Solar Cells (2025).

<https://doi.org/10.1007/s11664-024-11606-8>

9.-Synthesis and characterization of cesium lead bromide perovskite quantum dots with photovoltaic applications (2022)

<https://link.springer.com/article/10.1557/s43580-022-00386-0>

10.- Effect of reaction temperature on CsPbBr₃ perovskite quantum dots with photovoltaic applications (2023),

<https://link.springer.com/article/10.1557/s43580-022-00386-0>

11.-Effect of PVP surfactant on the synthesis of CuO nanoribbons by the chemical reduction method

(2022).<https://doi.org/10.1016/j.jcrysgro.2022.126918>

Alumnos graduados (últimos 10 años, nombre, grado y fecha de graduación)

Co-asesoria externa

1. Elizabeth Corona Sánchez, Licenciatura, 19/10/2023
2. Abraham Martínez Razo, Licenciatura, 22/11/2023
3. Jeimmy Brigitte Aguilar Saldivar, Licenciatura, 15/11/2023
4. Wendy Yaridid Solis Peñaloza, Licenciatura, 19/06/2025