Sara Chahid

Postdoctoral Research Fellow

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FORMATION_

2020	Postdoctoral Research Fellow in Advanced Physics laboratory at Chapman University
2019	Ph.D. Thesis, physics sciences (Synthetized and characterization of materials), University
	of science, Cadiz / Spain.
2014	Master, Photovoltaic solar cells University of science, Cadiz/ Spain.
2013	Bachelor in physics science, University of science Meknes / Morocco.
2009	Baccalaureate specialty physics science, with honors.
PROFESSIONAL EXPERIENCES	

- 2018 Research internship at the University of Science Tangier (Morocco), Synthesis and characterization of TiO₂ semiconductors doped with Cu and MoS₂ using Spray Pyrolysis technic.
- 2015 Research internship at the University of Science in Geneva (Switzerland), Study of the external quantum efficiency of Eu (II) emission for samples of content different from Eu (II) using a sphere integration.

PUBLICATIONS_

- [1] Gravitational waves Sensors Based on Superconducting Transducers, Physics Review X. April 13, 2020 (sent).
- [2] Isotherm analysis for removal of organic pollutants Using Synthesized Mo/Cu/ co-doped TiO₂ Nanostrucrured. 978-1-7281-1482-8/19©2019 IEEE, 2019.

Doi: 10.1109/ICOA.2019.8727623.

- [3] Mos₂/Tio₂ Mixture: A ModificationStrategies of TiO₂ Nanoparticles to Improve Photocatalytic Activity Under Visible Light Current Environmental Engineering. Doi: 10.2174/2212717806666190424151559.
- [4] Effect of Cu-doped TiO₂ photoanode on photovoltaic performance of dye-sensitized solar cells. 2018. SCA'18, October 10-11, 2018, Tetouan, Morocco © 2018 Copyright is held by the owner/ author (s). Publication rights licensed to ACM. ACM ISBN 978-1-4503-652. Doi:10-1145/3286606.3286854.
- [5] Isotherm, Kinetic, and thermodynamic analysis for removal of organic pollutant Using Synthesized Mo/Cu/ co-doped TiO₂ Nanostructured. 5th International Conference on Optimization and Applications (ICOA), 2019. DOI:10.1109/ICOA.2019.8727623.

[6] Mo/Cu/TiO₂ nanoparticles: synthesis, characterization and effect on photocatalytic decomposition of methylene blue in water under visible light. Water Science & Techology, Bonus Issue 1, 2017. **DOI: 10.2166/wst.2018.101**.

Book Chapter

- [1] Evaluation of Dye-Sensitized Cu-doped TiO₂ solar cells with a double flat band, **SCA'18**, October 10-11, 2018, Tetouan, Morocco. **Springer Book Series**.
- [2] Mo/TiO₂ mixture: An example of modification strategies of TiO₂ nanoparticles to improve photocatalytic activity. Materials and technologies for energy efficiency. **Antonio Mendez-Vila (Ed), BrownWalker Press**, Spain, 2015, ISBN-10: 1627345590.

National and International communication___

- [1] Superconducting GW detector targeting 10–30 Hz^{-1/2} strainsensitivity100Hz. **APS April Meeting** 18-21, Washington DC 2020.
- [2] Good performance of Photovoltaic and photocatalytic activity of Cu-doping TiO₂ nanostructures. International Conference on Optics, Information Processing and Renewable Energy (ICOIPRE 2018), Kenitra, Morocco, 22-23 November 2018 © **Springer Nature Switzerland** AG 2019., 940–946, 2019. **Doi.org/10.1007/978-3-030-11196-0_76.**
- Performance of DSSC and two flat band detected with Cu doped TiO₂ Electrode Fabricated by Hydrolysis at low temperature Technique. At the 3rd International Conference on Smart City Applications Held from 10 to 11 October 2018 (SCA2018) Tetouan, Morocco.
- [4] Photovoltaic properties of dye sensitized solar cells using Cu-doped TiO₂. 14th International Conference on Nanomaterials and Nanotechnology. Madrid (Spain), 30-31 Mars 2017.
- [5] Synergistic Effect of Mo / Cu co-doping on the Photocatalytic Activity of TiO₂. At the 21st German Women in Physics Conference in Ilmenau, 28 September 1 October 2017.

Skills_

Computer skills Proficient in LabVIEW, LaTex and Office, EXCEL spreadsheets,

POWER POINT presentations, PAINT artwork and images.

C ++ programming language.

Data analysis OriginLab, Igor Pro and Mathematica.

Language Proficiency English, French, Spanish and Arabic.