

Dedicated and accomplished academic with a Ph.D. in Advanced Chemistry from Complutense University of Madrid, and over 9 years of teaching and research experience at Tishreen University. Specialized in Inorganic Industrial Chemistry with a strong track record of supervising Master's and Ph.D. students, publishing in peer-reviewed national and international journals, and leading research projects on Ruddlesden–Popper oxides and their structural and physical properties. Seeking new academic or research opportunities to further contribute to advanced materials science and education in a collaborative and innovative environment.

Education

Ph.D. in Advanced Chemistry
Complutense University of Madrid, Spain – 2016

Thesis: Synthesis and Characterization of New Advanced Functional Cobalt-Based Oxides

M.Sc. in Chemistry
Complutense University of Madrid, Spain – 2012

Thesis: Ordered Nanoporous Oxide Structures for Application in Batteries

B.Sc. in Chemistry
Tishreen University, Latakia, Syria – 2003 – 2008

Graduated with Distinction, ranked first in class each academic year
Awarded the Al-Basel Certificate of Academic Excellence for four consecutive years

Academic Positions

2016–2025: Lecturer, Department of Inorganic Industries, Tishreen University, Syria

2025–present: Assistant Professor, Department of Inorganic Industries, Tishreen University, Syria

Teaching Experience

Course Name	Year(s)	Department	University	Academic Year(s)
General Chemistry I	First Year	Physics	Tishreen	2016–2024
General Chemistry II	First Year	Physics	Tishreen	2016–2026
Inorganic Industries I	Fourth Year	Chemistry	Tishreen	2022–2026
Inorganic Industries II	Fourth Year	Chemistry	Tishreen	2023–2026
Applied and Inorganic Chemistry	Master	Inorganic Chemistry	Tishreen	2020–2026
Applied and Inorganic Chemistry	Master	Applied Chemistry	Tishreen	2020–2026
Soil Chemistry	Fourth Year	Civil Engineering	Tishreen	2016–2018
General and Inorganic Chemistry	First Year	Natural Science	Tishreen	2017–2019

Supervision and Research Group Work

- Supervised several Master’s and Ph.D. theses.
- Led a research group at Tishreen University focusing on the synthesis of cobalt oxides and related compounds from the Ruddlesden–Popper series, investigating their electrical properties and crystal structures.



CONTACT ADDRESS

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manara.g.h@gmail.com

Nationality: Syrian

Date of Birth: 25 Jan 1987

LinkedIn:
<https://www.linkedin.com/in/manar-hassan-a1b38a116>

LANGUAGES

- Arabic: Excellent
- Spanish: Very Good
- English: Good

HOBBIES

- Cooking
- Reading

Published Research

Full list of published research available upon request.:

1. Khalid Boulahya, Manar Hassan, Daniel Muñoz Gil, Julio Romero, Adrián Gómez Herrero, Susana García-Martín, and U. Amador, "Exploring the physical properties of $\text{Eu}_2\text{SrCo}_{1.5}\text{Mn}_{0.5}\text{O}_7$, a new $n = 2$ member of the Ruddlesden–Popper series $(\text{Eu},\text{Sr})_{n+1}(\text{Co},\text{Mn})_n\text{O}_{3n+1}$," *J. Mater. Chem. A*, 3 (2015), 22931–22939. <https://doi.org/10.1039/c5ta05464h>
2. Khalid Boulahya, Daniel Muñoz Gil, Manar Hassan, Susana García-Martín, and Ulises Amador, "Structural and microstructural characterization and properties of new phases in the Nd–Sr–Co–(Fe/Mn)–O system as air-electrodes in SOFCs," *Dalton Trans.* 46 (2017), 1283–1289. <https://doi.org/10.1039/C6DT03970G>
3. Khalid Boulahya, Manar Hassan, Jesús C.G. Minguez, and Stavros Nicolopoulos, "Electron Microscopy and Electron Energy-Loss Spectroscopy Study of $\text{Nd}_{1-x}\text{Sr}_x\text{CoO}_{3-\delta}$ ($0 \leq x \leq 1$) System," *Microscopy and Microanalysis*, 20 (3), 2014, 687–691. <https://doi.org/10.1017/S1431927614000336>
4. Manar Hassan, "Synthesis of the crystalline compounds $\text{Sr}_{2-x}\text{Sm}_x\text{CoO}_4$ belonging to the Ruddlesden–Popper series by partial substitution of strontium (Sr) with samarium (Sm) and study of their crystal structure and some physical properties," *Tishreen University Journal for Research and Scientific Studies*, 45(6), 2023.
5. Manar Hassan, "Synthesis and study of the crystal structure and magnetic properties of $\text{Sm}_2\text{SrCoFeO}_7$ belonging to the Ruddlesden–Popper series ($n=2$)," *Al-Baath Journal of Medical, Engineering, Basic, and Applied Sciences*, 46(6), 2024.
6. Manar Hassan et al., "Synthesis and study of the physical properties of perovskite $(\text{Sr}_{2-x}\text{Gd}_x)(\text{Co}_{1-y}\text{Cu}_y)\text{O}_4$ belonging to the Ruddlesden–Popper series," *Tishreen University Journal for Basic Sciences*, 42(2), 2020.
7. Manar Hassan et al., "Synthesis and study of the physical properties of perovskite $(\text{Sr}_{2-x}\text{Gd}_x)(\text{Co}_{1-y}\text{Cu}_y)\text{O}_4$ belonging to the Ruddlesden–Popper (RP) series," *Chemistry Research Journal*, 5(1), 2020, 92–98.
8. Manar Hassan et al., "Synthesis and study of the structural properties of perovskite $\text{Sr}_2(\text{Co}_{1-y}\text{Cr}_y)\text{O}_4$ belonging to the Ruddlesden–Popper series," *Tishreen University Journal for Basic Sciences*, 44(2), 2022.
9. Manar Hassan et al., "Synthesis of cobalt oxides from the Ruddlesden–Popper series doped with copper and chromium $\text{Sr}_2(\text{Co}_{1-y}\text{Cr}_y\text{Cu}_y)\text{O}_4$ and determination of their structural properties," *Tartous University Journal for Basic Sciences*, 6(1), 2022.
10. Manar Hassan et al., "Synthesis and study of the structural properties of oxides $\text{Sr}_{2-x}(\text{Gd}_x\text{Eu}_x)(\text{Co}_{1-y}\text{Cu}_y\text{Cr}_y)\text{O}_4$ belonging to the Ruddlesden–Popper series ($n=1$)," *Tartous University Journal for Basic Sciences*, 6(3), 2022.
11. Manar Hassan et al., "Determination of oxygen content in perovskite oxides belonging to the Ruddlesden–Popper (RP) series and study of their conductivity and electrical resistance," *Tartous University Journal for Basic Sciences*, 6(6), 2022.
12. Manar Hassan et al., "Synthesis of compounds $(\text{Sr}_{3-x}\text{Tb}_x\text{Co}_{2-y}\text{Cu}_y\text{O}_7)$ ($x=0.5, y=1, 0.5$) belonging to the Ruddlesden–Popper series ($n=2$)," *Tartous University Journal for Basic Sciences*, 7(4), 2023.
13. Manar Hassan et al., "Determination of the thermal synthesis program for new oxides belonging to the Ruddlesden–Popper series ($n=2$)," *Tartous University Journal for Basic Sciences*, 7(1), 2023.
14. Manar Hassan et al., "Synthesis of $(\text{Sr}_{3-x}\text{Tb}_x\text{Co}_{2-y}\text{Fe}_y\text{O}_7, \text{Sr}_{3-x}\text{Yb}_x\text{Co}_{2-y}\text{Fe}_y\text{O}_7)$ ($x=0.5, y=1, 0.5$) compounds belonging to the Ruddlesden–Popper series ($n=2$) by partial substitution of Co with Fe at the B-site and Sr with rare-earth elements at the A-site using the ceramic method," *Tishreen University Journal for Basic Sciences*, 45(4), 2023.

Computer Skills

- ICDL Certificate (Microsoft Office, Internet, Windows, etc.)