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## EDUCATION

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**2020-2024: DSc** in Chemical and Process Engineering, Laboratory of Industrial Chemistry and Reaction Engineering, Åbo Akademi University, Finland (*Cotutelle*, double degree)

**2020-2024: PhD student** in Chemical Sciences, industrial chemistry, University of Naples Federico II, Naples, Italy (*Cotutelle*, double degree)

**2014-2016: MSc** in Chemical Engineering (first class academic standing), specialty of Energy and Environment, University of Calgary, Schulich School of Engineering, Calgary, Canada, GPA: 3.93

**2004-2009: BSc** in Chemical Engineering (first class academic standing), An-Najah National University, Faculty of Engineering, Nablus, Palestine, GPA: 85.5

**2003-2004: High School** in Science stream, Kamal Junblat, Nablus, Palestine, GPA:95

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## WORK EXPERIENCE

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- Assistant Professor at An-Najah National University: January 2024 – Present
- Instructor at An-Najah National University: August 2016 – December 2020
- Director of ABET Centre, An- Najah National University: September 2018 – May 2019
- Advisor of AIChE student Chapter, An-Najah National University: January 2017 – December 2020
- Research and Teaching Assistant: January 2014 – June 2016
- Senior Quality Engineer: October 2013 – December 2013
- Quality Executive Engineer: April 2011 – October 2013
- Teaching and Research Assistant: January 2011 – December 2011

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## TEACHING EXPERIENCE

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- Courses taught at An-Najah National University, Nablus, Palestine (Fall 2016-Fall 2021)
  1. Principles of Chemical Engineering Calculations (10626202)
  2. Fluid Mechanics (10626231)
  3. Numerical Methods for Engineers (10626251)
  4. Principles of Scientific Research and Technical Writing (64300)
  5. Special Topics in Environment (Engineered Nanotechnological materials) (1062954)
  6. Introduction to Professional Engineering Concepts (10626301)
  7. Design and Analysis of Experiments (10626554)
  8. Supervised students on their graduation Project entitled “Adsorptive removal of dyes from textile wastewater using nanoparticles (nanopyroxene)”
- Courses TA-ed at University of Calgary, Alberta, Canada (Fall 2014, 2015, Summer 2015 and Winter 2016):
  1. Behaviour of Liquids, Gases and Solids (ENGG 201).
  2. Internship (INTE 513.03)
- Courses TA-ed at An-Najah National University, Nablus, Palestine (Winter, Summer and Fall 2011):
  1. Fluid Mechanics (64231).
  2. Mass Transfer (64361).

3. Reactor design (64441).
4. Computer Aided Equipment Design (64444).

### AWARDS AND SCHOLARSHIPS

1. Schlumberger Foundation, Faculty for the Future Fellowship, April 2022.
2. Society of Swedish Literature, Environmental management and technology, January, 2022.
3. 2021 Excellence in E-Learning Award in advancing the educational process and innovation in the field of educational course management system (Moodle), An-Najah National University, July 2021.
4. 2020 AIChE Student Chapter Advisor Honor Roll.
5. Scientific Research Award, Deanship of Scientific Research, An-Najah National University, July 2020.
6. Scientific Research Award, Deanship of Scientific Research, An-Najah National University, July 2019.
7. Scientific Research Award, Deanship of Scientific Research, An-Najah National University, June 2018.
8. Scientific Research Award, Deanship of Scientific Research, An-Najah National University, June 2017.
9. FGS Maternity and Miscellaneous Award, Graduate Scholarship Office, University of Calgary, December 2014.
10. Schulich Student Activities Fund (SSAF) (to attend 64<sup>th</sup> CSChE conference, Niagara Falls, Ontario Conference, October 18-22, 2014), Schulich School of Engineering, University of Calgary, December 2014.
11. Best 3MT presentation award in “Research Seminar” course, Schulich School of Engineering, University of Calgary, November 2014.
12. Graduate Research Scholarship (MSc), Department of Chemical and Petroleum Engineering, University of Calgary, AB, Canada, January 2014.
13. Tuition Fee Waiver Award for Nine Semesters, An-Najah National University, Nablus, Palestine, 2005-2009. Amount: 33% off total tuition fees.
14. Dean’s List of Honor, An-Najah National University, Nablus, Palestine, 2004-2009.

### PUBLICATIONS, PRESENTATIONS, PERFORMANCES, EXHIBITIONS

#### Peer-reviewed journal articles:

- I. **M. Hmoudah**, C. Chianese, A. El-Qanni, V. Russo, M. Di Serio, T. Salmi, Photodegradation of ibuprofen using ZnO and TiO<sub>2</sub> nanoparticles: Comprehensive kinetics modeling, mechanisms, and thermodynamics study, *Journal of Water Process Engineering* 69 (2025): 106598. <https://doi.org/10.1016/j.jwpe.2024.106598>
- II. **M. Hmoudah**, R. Paparo, M. De Luca, M. E. Fortunato, R. Tesser, M. Di Serio, C. Ferone, G. Roviello, O. Tarallo, V. Russo, Adsorption of methylene blue on metakaolin-based geopolymers: a kinetic and thermodynamic investigation, *Langmuir*. (*under review*)
- III. **M. Hmoudah**, A. El-Qanni, R. Tesser, R. Esposito, A. Petrone, O. Jung, T. Salmi, V. Russo, and M. Di Serio Assessment of the Robustness of MIL-88A in an Aqueous Solution: Experimental and DFT Investigations, *Materials Science and Engineering: B* 288 (2023): 116179. [doi.org/10.1016/j.mseb.2022.116179](https://doi.org/10.1016/j.mseb.2022.116179)
- IV. **M. Hmoudah**, M. E. Fortunato, R. Paparo, M. Trifuoggi, A. El-Qanni, R. Tesser, D. Murzin, T. Salmi, V. Russo, M. Di Serio, Ibuprofen adsorption on activated carbon: thermodynamic and kinetic investigation via adsorption dynamic intraparticle model (ADIM), *Langmuir*, 2023. [doi.org/10.1021/acs.langmuir.2c03350](https://doi.org/10.1021/acs.langmuir.2c03350)
- V. **M. Hmoudah**, A. El-Qanni, S. Abuhatab, N. N. Marei, A. El-Hamouz, B. J. Abu Tarboush, I. H. Alsurakji, H. M. Baniowda, V. Russo, M. Di Serio, Competitive adsorption of Alizarin Red S and Bromocresol Green from aqueous solutions using brookite TiO<sub>2</sub> nanoparticles: experimental and

- molecular dynamics simulation, Environmental Science and Pollution Research 29(51), (2022): 77992-78008. [doi.org/10.1007/s11356-022-21368-7](https://doi.org/10.1007/s11356-022-21368-7)
- VI. N. Gallucci, **M. Hmoudah**, E. Martinez, A. El-Qanni, M. Di Serio, L. Paduano, G. Vitiello, V. Russo, Sustainable photodegradation of ibuprofen using CeO<sub>2</sub> nanostructured materials, Journal of Environmental Chemical Engineering 10.3 (2022): 107866. [doi.org/10.1016/j.jece.2022.107866](https://doi.org/10.1016/j.jece.2022.107866)
  - VII. M. Melchiorre, D. Lentini, M. Cucciolito, F. Taddeo, **M. Hmoudah**, M. Di Serio, F. Ruffo, V. Russo, and R. Esposito. Sustainable ketalization of glycerol with ethyl levulinate catalyzed by the iron(III)-based Metal-Organic Framework MIL-88A, Molecules 27, no. 21 (2022): 7229. [doi.org/10.3390/molecules27217229](https://doi.org/10.3390/molecules27217229)
  - VIII. M. Toscanesi, V. Russo, A. Medici, A. Giarra, **M. Hmoudah**, M. Di Serio, M. Trifuoggi, Heterogeneous Photodegradation for the Abatement of Recalcitrant COD in Synthetic Tanning Wastewater, Journal of ChemEngineering 6, no. 2 (2022): 25. [doi.org/10.3390/chemengineering6020025](https://doi.org/10.3390/chemengineering6020025)
  - IX. A. El-Qanni, M. Alsayed, I. H. Alsurakji, M. Najjar, D. Odeh, S. Najjar, **M. Hmoudah**, M. Zubair, V. Russo, and M. Di Serio. A techno-economic assessment of biological sludge dewatering using a thermal rotary dryer: a case study of design applicability, economics, and managerial feasibility, Biomass Conversion and Biorefinery (2022): 1-15. [doi.org/10.1007/s13399-022-03480-3](https://doi.org/10.1007/s13399-022-03480-3)
  - X. V. Russo, **M. Hmoudah**, F. Broccoli, M. R. Iesce, O. S. Jung, and M. Di Serio, Applications of Metal Organic Frameworks in Wastewater Treatment: A Review on Adsorption and Photodegradation, Front. Chem. Eng, 2 (2020): 581487. [doi.org/10.3389/fceng.2020.581487](https://doi.org/10.3389/fceng.2020.581487)
  - XI. S. Abuhatab, A. El-Qanni, H. Al-Qalaq, **M. Hmoudah** and W. Ziad, Effective Adsorptive Removal of Zn<sup>2+</sup>, Cu<sup>2+</sup>, and Cr<sup>3+</sup> Heavy Metals from aqueous solutions using Silica-Based Embedded with NiO and MgO Nanoparticles, Journal of Environmental Management 268 (2020): 110713 [doi.org/10.1016/j.jenvman.2020.110713](https://doi.org/10.1016/j.jenvman.2020.110713)
  - XII. S. Abuhatab, A. El-Qanni, N. N. Marei, **M. Hmoudah** and A. El-Hamouz, Sustainable Competitive Adsorption of Methylene Blue and Acid Red 88 from Synthetic Wastewater using NiO and/or MgO Silicate Based Nanosorbents: Experimental and Computational Modeling Studies, RSC Advances 9.61 (2019): 35483-35498. [10.1039/C9RA07001J](https://doi.org/10.1039/C9RA07001J)
  - XIII. N. Marei, N.N. Nassar, **M. Hmoudah**, A. El-Qanni, G. Vitale, and A. Hassan, Nanosize Effects of NiO Nanosorbents on Adsorption and Catalytic Thermo-Oxidative Decomposition of Vacuum Residue Asphaltenes, Canadian Journal of Chemical Engineering (2017): 1864-1874. [doi.org/10.1002/cjce.22884](https://doi.org/10.1002/cjce.22884)
  - XIV. **M. Hmoudah**, N. N. Nassar, G. Vitale, and A. El-Qanni, Effect of nanosized and surface-structural-modified nano-pyroxene on adsorption of violanthrone-79, RSC Advances 69 (2016), 64482-64493. [doi.org/10.1039/C6RA05838H](https://doi.org/10.1039/C6RA05838H)

#### **Peer-reviewed conference proceeding:**

Abu-Safa, A. and **M. Hmoudah**, Engineering Education in Palestine (Evaluation and Accreditation Criteria), Second Conference of Engineering Education in the Arab Homeland in Lebanon, Beirut 22-23<sup>th</sup> March 2012.

#### **Peer-reviewed abstracts:**

- **M. Hmoudah**, C. Chianese, V. Russo, M. Di Serio, T. Salmi, Investigating Photocatalytic Performance and Kinetics of Commercial TiO<sub>2</sub>-P25 and ZnO Nanoparticles for Ibuprofen Photodegradation. 15<sup>th</sup> European congress on catalysis, Prague, Czech Republic, August 27<sup>th</sup> – September 1<sup>st</sup>, 2023. (Poster presentation)
- **M. Hmoudah**, P. Tolvanen, V. Russo, M. Di Serio, T. Salmi, Revolutionizing Wastewater Treatment: The Potential of Mxenes in Removing Emerging Contaminants, Finnish Young Scientist Forum for Catalysis, March 31<sup>st</sup>, 2023 (Poster presentation)

- **M. Hmoudah**, V. Russo, M. Di Serio, T. Salmi, The role of Women in STEM, Schlumberger Foundation Faculty for the Future Fellows & Alumnae Regional Forum, Cambridge, United Kingdom, October 23<sup>rd</sup>-26<sup>th</sup>, 2022. (Poster presentation)
- **M. Hmoudah**, V. Russo, M. Di Serio, T. Salmi, Innovative Materials for Water Purification, October 21<sup>st</sup>, 2022, Aurum day (Poster presentation)
- **M. Hmoudah**, A. El-Qanni, R. Tesser, R. Esposito, A. Petrone, F. Taddeo, O.S. Jung, T. Salmi, V. Russo, M. Di Serio, Assessment of the Robustness of MIL-88A in an Aqueous Solution: experimental and DFT investigations, XXII National Congress on Catalysis 2022, Riccione, Italy, 4-7 September, 2022. (Poster presentation)
- O. Tammam, M. Chianese, **M. Hmoudah**, R. Tesser, L. Fabris, M. Camellone, B. Masenelli, V. Russo, M. Di Serio, S. Esposito, Reverse Micelles Synthesis of Mesoporous Fe-doped CeO<sub>2</sub> as UV/Visible Photocatalyst for Ibuprofen Degradation, 1<sup>o</sup> Congresso Nazionale della Divisione di Chimica per le Tecnologie della Società Chimica Italiana, Naples, Italy, 21-25 August, 2022. (Oral presentation)
- **M. Hmoudah**, M. E. Fortunato, R. Paparo, M. Trifuoggi, R. Tesser, M. Di Serio, V. Russo, Adsorption of Ibuprofen on Activated Carbon: Experimental Data Validation using Adsorption Dynamic Intraparticle Model (ADIM)., 26<sup>th</sup> International Congress of Chemical and Process Engineering (CHISA), Prague, Czech Republic, 21-25 August, 2022. (Poster presentation)
- **M. Hmoudah**, M. Di Serio, V. Russo, Promising Applications of Metal Organic Frameworks (MOFs) in Wastewater Treatment through Adsorption and Photodegradation., 7<sup>th</sup> CUCS, Naples, Italy, April 21<sup>st</sup>-23<sup>rd</sup>, 2021. (Oral presentation)
- **M. Hmoudah**, N. Gallucci, E. Martinez, A. El-Qanni, M. Di Serio, L. Paduano, G. Vitiello, V. Russo, Sustainable Photodegradation of Ibuprofen using CeO<sub>2</sub> Nanostructured Materials, Merk Young Chemists Symposium, Rimini, Italy, November 22<sup>nd</sup>-24<sup>th</sup>, 2021. (Oral presentation)
- **M. Hmoudah**, V. Russo and M. Di Serio, Assessment of the Robustness of Iron-Based Metal organic Frameworks (MIL-88A) in an Aqueous Environment, XXVII Congresso Nazionale della Società Chimica Italiana September 14<sup>th</sup>-23<sup>rd</sup>, 2021, Virtual Conference. (Oral presentation)
- **M. Hmoudah**, V. Russo and M. Di Serio, Adsorption and Photocatalytic Degradation of Congo Red Dye from Aqueous Solution using MIL-88 A: Kinetics and Modeling, IUPAC-CCCE 2021 Virtual Conference, Canada, August 13<sup>th</sup>-20<sup>th</sup>, 2021. (Oral presentation)
- H. Baniowda, **M. Hmoudah**, A. El-Qanni, S. Abuhata, A. El-Hamouz and N. Marei, Competitive Adsorption and Photocatalytic Degradation of Alizarin Red S and Bromocresol Green Anionic Dyes Using TiO<sub>2</sub> nanoparticles, 2019 AIChE Annual Meeting, Orlando, FL, USA, 10-15 November, 2019.
- A. Shahin, H. Al-qalaq, A. El-Qanni, **M. Hmoudah**, A. El-Hamouz and M. Fuqha, Nickel Oxide Silica Based and Commercial Nickel Oxide Nanosorbents for Adsorption of Cationic and Anionic Dyes Followed By Thermo-Oxidative Decomposition, 2019 AIChE Annual Meeting, Orlando, FL, USA, 10-15 November, 2019.
- S. Abuhatab, A. El-Qanni, A. El-Hamouz and **M. Hmoudah**, Competitive Adsorption Study of Cationic and Anionic Compounds over in-House Prepared Silicate Based Nanosorbents, 2018 AIChE Annual Meeting, Atlanta, **Pittsburgh, PA**, USA, October 28-November 2, 2018.
- **M. Hmoudah**, N. N. Nassar, A. El-Qanni, N. N. Marei, G. Vitale, and A. Hassan, Surface and structural-modified pyroxene nanoparticles for adsorption and catalytic thermal decomposition of visbroken residue asphaltenes, to be presented at 2016 AIChE Annual Meeting, San Francisco, U.S., November 13-18, 2016.
- **M. Hmoudah**, N. N. Nassar, G. Vitale, A. Hassan, Silicate-Based Nanoparticles for Enhancing Heavy Oil Quality, 2015 AIChE annual meeting, Salt Lake City, Utah, USA, November 8-13, 2015.

- **M. Hmoudah**, N. N. Nassar, G. Vitale, Adsorptive Removal of Visbroken n-C5 Asphaltenes from Heavy Oil by Silica-Based Nanoparticles, 65<sup>th</sup> Canadian Chemical Engineering Conference, Calgary, Alberta, Canada, October 4-7, 2015.
- **M. Hmoudah**, N. N. Nassar, G. Vitale, A. El-Qanni, N. Marei, Development of New Iron Silicate-based Nanoparticles for Adsorptive Removal of Polar Heavy Hydrocarbons from Athabasca Bitumen, Alberta Nanotechnology Symposium, Banff, Alberta, Canada, May 30-31, 2015.
- El-Qanni, A., N. Nassar, E. Ehrmann, **M. Hmoudah**, N. Marei, Hydrocarbons Recovery and Water Recycling from SAGD Produced Water Using Metal Oxide Nanoparticles, Alberta Nanotechnology Symposium, Banff, Alberta, Canada, May 30-31, 2015.
- Marei, N., N. Nassar, G. Vitale, A. El-Qanni, **M. Hmoudah**, Effect of nanosize on adsorptive and catalytic properties of NiO nanoparticles towards Quinolin-65, Alberta Nanotechnology Symposium, Banff, Alberta, Canada, May 30-31, 2015.
- Hamouz, A., A. Jaaron, F. Halawa, B. Shaheen, **M. Hmoudah**, The Impact of Effective Staff Involvement on the Successful Realization of ABET Requirements, 14 AIChE Annual Meeting, Atlanta, GA, USA, November 16-21, 2014.
- **Hmoudah, M.**, N. N. Nassar, G. Vitale, Nano-Iron Silicate for Adsorption of Waste Heavy Hydrocarbons, 64<sup>th</sup> Canadian Chemical Engineering Conference, Niagara Falls, Ontario, Canada, October 19-22, 2014.

#### **Funded Projects:**

- Principle Investigator of the Project entitled "Development of Metal Oxide Based Nanosorbents for Heavy Metals Treatment in Wastewater (\$15,000)": ANNU-MoHE-1819-Sc002
- Co-Investigator of the project entitled "Development of Metal Oxide Based Nanosorbents for Wastewater Treatment in the West Bank (\$15,000)": ANNU-MoHE-1819-Sc019
- Co-Investigator of the project entitled "Application of Developed Nano-adsorbent for Waste Engine oil in the West Bank (\$5,000)": ANNU1819 Sc006

#### **Seminar presentation:**

- **Hmoudah, M.**, Nano-Pyroxene for Adsorption and Catalytic Thermal Decomposition of Visbroken Residue Asphaltenes, MSc thesis, Schulich School of Engineering, University of Calgary, April 7<sup>th</sup>, 2016.
- **Hmoudah, M.**, Pyroxene Nanoparticles for Adsorption and Catalytic Thermo-Oxidative Decomposition of Visbroken Residue Asphaltenes, Catalysis for Bitumen Upgrading Research Group Seminar, University of Calgary, March 15<sup>th</sup>, 2016.
- **Hmoudah, M.**, Nano-Aegirine for Adsorption and Subsequent Oxidation of VO-79 model molecule and Asphaltenes, Catalysis for Bitumen Upgrading Research Group Seminar, University of Calgary, September 4<sup>th</sup>, 2015.
- **Hmoudah, M.**, Development of Nano-Aegirine Nanoparticles for Adsorptive Removal of Polar Heavy Hydrocarbons, 4<sup>th</sup> Chair Meeting, University of Calgary, March 10<sup>th</sup>, 2015.
- **Hmoudah, M.**, Nano-iron silicate for Enhancing Heavy Oil Quality, 3MT presentation, ENCH 601 Research Seminar, Schulich School of Engineering, University of Calgary, November 18<sup>th</sup>, 2014.

#### **Thesis:**

- **Hmoudah, M.**, Innovative Materials for Water Purification, University of Naples Federico II, Naples, Italy, and Åbo Akademi University, Finland (Cotutelle, double degree), 2024.

- **Hmoudah, M.**, Nano-Pyroxene for Adsorption and Catalytic Thermal Decomposition of Visbroken Residue Asphaltenes, Master of Science Thesis, Schulich School of Engineering, University of Calgary, Canada, 2016.
- **Hmoudah, M.**, Charcoal Production and its Pollution Mitigation, Bachelor of Science Thesis, An-Najah National University, West Bank, Palestinian Authority, 2009.

#### PROFESSIONAL AFFILIATIONS

- Member of SCI Giovani (membership # 24134), Italy, June 2021-Present.
- Director: AIChE student chapter, An-Najah National University, May 2017-Present.
- Member: Chemical Institute of Canada and Constituent Societies (MCIC), 2014-present.
- Research Assistant in CBUG, University of Calgary, 2014-2016.
- Scholar of An-Najah National University, 2013-2016.
- Member: American Institute of Chemical Engineers, USA. (AIChE), 2012-present.
- Member: Institute of Chemical Engineers, UK. (IChemE), 2011-2016.
- Member: Jordanian Engineers Association, 2009-present.

#### PROFESSIONAL CIRTIFICATIONS AND DEVELOPMENTS

- Safety Training Course, University of Naples Federico II, May, 2021.
- Coaching workshop, Center of Excellence in Learning and Teaching (An-Najah National University), August, 2019.
- Creating and editing instructional video, Center of Excellence in Learning and Teaching (An-Najah National University), August, 2019.
- Community based learning, Center of Excellence in Learning and Teaching, (An-Najah National University), August, 2018.
- Instructor - TA: How to make the teamwork work, University of Calgary, April 2015.
- Instructional skills workshop for faculty members and graduate students, University of Calgary, April 2015.
- Graduate student teaching workshop: What makes a great TA? What is great about being a TA, University of Calgary, March 2015.
- Writing course learning outcomes and planning student assessment, University of Calgary, December 2014.
- First time TA orientation workshop, University of Calgary, September 2014.
- Overview of the NI LabVIEW environment, University of Calgary, April 2014.
- VMGSim Training Course, University of Calgary, March 2014.
- Valve Tube Bending Training Course, University of Calgary, February 2014.
- Workplace Hazardous Materials Information systems (WHIMIS), University of Calgary, February 2014.
- H<sub>2</sub>S Alive, University of Calgary, February 2014.
- French Course (Level 4), September 2013.
- IELTS academic band score 6.5, February 2013.

## REFERENCES

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**Prof. Martino Di Serio**, Ph.D, Department of Chemical Sciences, Professor, University of Naples Federico II, Address: Via Cintia, Monte Sant'Angelo, 80126 Napoli, Italy, Phone: +39 081 674414, Email: [diserio@unina.it](mailto:diserio@unina.it)

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**Prof. Amer El-Hamouz**, Ph.D, Department of Chemical Engineering, Professor, An-Najah National University, Address: Aljunaid Area, Rafidia P.O.Box 7 Nablus Palestinian Territories, Phone: +970 9 2345113 ext. 2199, Email: [elhamouz@najah.edu](mailto:elhamouz@najah.edu)

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