



Education

- **Université de Montréal – École Polytechnique de Montréal** (since 2019)

Ph.D. Degree, Department of Chemical Engineering

- **Chemical Engineering – Military Technical college (MTC)** (2013-2016)

M.Sc. Degree, Department of Chemical Engineering

- **Chemical Engineering – Military Technical college (MTC)** (2003-2009)

B.Sc. Degree, Department of Chemical Engineering

PhD Thesis: Synthesis and characterization of graphene / metal oxide nanocomposite.

Research Interests

- Composite materials.
- Energetic materials.
- Material Characterization.
- Energy and renewable energy.

Work Experience

Researcher, Technical Research Center (TRC) <i>Cairo, Egypt</i>	Research Associate	(2015-2019)
Department of Chemical Engineering, Military Technical College (MTC) <i>Cairo, Egypt</i>	M.Sc. Student	(2013-2016)
Researcher, Technical Research Center (TRC) <i>Cairo, Egypt</i>	Research Assistant	(2011-2013)

Expertise

- ICT Thermodynamic Code simulation (Institute of Chemical Technology in Germany, virgin 2008).
- Instrumental chemical analysis.
- Optical analysis spectrometers (Ocean Optix USB4000 and ARCOptix).
- LabVIEW.
- COMSOL simulation.



Journal Publications

- Ramy Sadek, Mohamed Kassem, Mohamed Abdo, Sherif Elbasuney, “Novel yellow colored flame compositions with superior spectral performance”, Defence Technology, Volume 13, Issue 1, Pages 33-39, ScienceDirect, Elsevier, 2017.
- Ramy Sadek, Mohamed Kassem, Mohamed Abdo, Sherif Elbasuney, “Spectrally adapted red flare tracers with superior spectral performance”, Defence Technology, Volume 13, Issue 6, Pages 406-412, ScienceDirect, Elsevier, 2017.
- Ramy Sadek, Mohamed Kassem, Mohamed Abdo, Sherif Elbasuney, “Novel blue flare tracer with enhanced color quality and luminous intensity”, the Journal of Luminescence, Volume 195, Pages 8-13, ScienceDirect, Elsevier, 2018.
- Sherif Elbasuney, Ahmed Fahd, Hosam E. Mostafa, Sherif F. Mostafa, Ramy Sadek, “Chemical stability, thermal behavior, and shelf life assessment of extruded modified double-base propellants”, Defence Technology, Volume 14, Issue 1, Pages 70-76, ScienceDirect, Elsevier, 2018.
- Sherif Elbasuney, Amir Elsaidy, Mohamed Kassem, Hesham Tantawy, Ramy Sadek, Ahmed Fahd, Mohamed Gobara “Super-Thermite (Al/Fe₂O₃) Fluorocarbon Nanocomposite with Stimulated Infrared Thermal Signature via Extended Primary Combustion Zones for Effective Countermeasures of Infrared Seekers”, Journal of Inorganic and Organometallic Polymers and Materials, Volume 28, Issue 6, Pages 2231-2240, Springer, 2018.
- Sherif Elbasuney, Ashraf.M.A.Elghafour, Mostafa Radwan, Ahmed Fahd, Hosam Mostafa, Ramy Sadek, Amr Motaz , “Novel aspects for thermal stability studies and shelf life assessment of modified double-base propellants”, Defence Technology, Volume 15, Issue 3, Pages 300-305, ScienceDirect, Elsevier, 2019.
- Ramy Sadek, Mohamed Kassem, Mohamed Abdo, Ahmed Fahd, Hesham Tantawy, Amir Elsaidy, Sherif Elbasuney, “Novel colored flames via chromaticity of essential colors”, Defence Technology, Volume 15, Issue 2, Pages 210-215, ScienceDirect, Elsevier, 2019.
- Sherif Elbasuney, Amir Elsaidy, Mohamed Kassem, Hesham Tantawy, Ramy Sadek, Ahmed Fahd, “Infrared Spectra of Customized Magnesium/Teflon/Viton Decoy Flares”, Combustion, Explosion, and Shock Waves, Volume 55, Issue 5, Pages 599-605, Springer, 2019.

Conference Publications

- Ramy Sadek, Mohamed Kassem, Mohamed Abdo, Sherif Elbasuney, “Spectrally Adapted Red Flares with Enhanced Color Quality and Luminous Intensity”, Proceeding of the 8th International Conference On CHEMICAL & ENVIRONMENTAL ENGINEERING (ICEE), pp.CA-CA, Egypt, 19 – 21 April, 2016.
- R.Sadek, E.M.Youssef, “Spectrally Adapted Yellow IR tracers with Enhanced Luminous Intensity”, Proceeding of the 48th International Annual Conference of the Fraunhofer ICT (ICT), pp.84, Germany, 27 – 30 June, 2017.