POLYTECHNIQUE MONTRÉAL
LE GÉNIE EN PREMIÈRE CLASSE

Université de Montréal

James Diamond, PhD

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Education

- **Polytechnique Montreal, Montreal, QC, Canada** (since 2020)

  Ph.D. Student, Department of Chemical Engineering

  Co-supervision with Université de Montréal, Department of Physics

- **Université de Montréal, Montréal, Canada** (2018-2020)

  M.Sc. Degree, Department of Physics

- **Université de Montréal, Montréal, Canada** (2014-2018)

  B.Sc. Degree, Department of Physics

PhD Thesis: Microwave generated plasma for micro-particles treatment

Research Interests

- Plasma
- Micro-particles plasma treatment
- Mineral processing

Teaching Experience

• PHY 1441 - Électromagnétisme	Teaching Assistant	H19,A19, H20
• PHY 1651 – Mécanique Classique	Teaching Assistant	A18
• PHY 1501 – Introduction à la physique expérimentale	Teaching Assistant	H21
• PHY1902 – Électromagnétisme et optique	Teaching Assistant	H17, A20
• PHY1901 – Mécanique et physique moderne	Teaching Assistant	H16, A16

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Journal Publications

- Time-resolved imaging of pulsed positive nanosecond discharge on water surface: plasma dots guided by water surface, *Ahmad Hamdan, **James Diamond**, Luc Stafford, Plasma Sources Science and Technology, Volume 29, Number 11, 2020*

- Time and space-resolved imaging of an AC air discharge in contact with water, ***James Diamond**, Ahmad Hamdan, Jacopo Profili, Joelle Margot, Journal of Physics D: Applied Physics, Volume 53, Number 42, 2020*

- Pulsed nanosecond air discharge in contact with water: influence of voltage polarity, amplitude, pulse width, and gap distance, *Ahmad Hamdan, Daniel A Ridani, **James Diamond**, Rimeh Daghrir, Journal of Physics D: Applied Physics, Volume 53, Number 35, 2020*

- Characterization of Various Air Plasma Discharge Modes in Contact with Water and Their Effect on the Degradation of Reactive Dyes, ***James Diamond**, Jacopo Profili, Ahmad Hamdan, Plasma Chemistry and Plasma Processing, Volume 39, 2019*