Michael E. Evans

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EDUCATION:

Drexel University, Philadelphia, PA
Doctorate of Philosophy in Materials Science and Engineering — Ongoing

Villanova University, Villanova, PA
Master of Science in Mechanical Engineering, — May 2021
Bachelor of Science in Physics — May 2015

TECHNICAL SKILLS:

Proficient in Matlab, C++, Python, Unix, Linux, Microsoft Office Products,

ACADEMIC POSITIONS:

Dr. Yury Gogotsi, Drexel University, PA
PhD. Student — September 2025 – Present
- Responsibilities focused on synthesis of MXene 2-D nano materials and study of their properties/characteristics

Dr. Finley Shapiro and Dr. Gerard Jones, Villanova, PA
Graduate Assistant — Spring 2018 – July 2021
- Responsibilities included construction of solar prototype, sensor prototype, collection of data, monitoring of experimental set up, data analysis, coding of computer model, publishing of original thesis, and journal article

POSITIONS:

Lockheed Martin: Rotary and Mission Systems
Senior Member Engineering Staff, Integration & Test Engineer — July 2021 - present

PROJECTS:

Coding and Validation of Computer Model for Solar Prototype System — Spring 2018 – 2021
- Assisted in the development of underlying governing equations for computer model
- Coded, developed, and validated computer mode of solar prototype system

Fabrication of Solar Prototype system, Villanova University — Spring 2018 – 2021
- Assisting in the fabrication of the initial solar prototype and sensor system for data collection
- Assisting in monitoring of experimental set up, data collection, and data analysis

PAPERS AND PUBLICATIONS:

A Validated Model, Scalability, and Plant Growth Results for an Agri-voltaic Greenhouse
- Sustainability. 2022; 14(10):6154. http://doi.org/10.3390/su14106154

Reconsidering Beam and Diffuse Solar Fractions for Agri-Voltaics
- Solar Energy. Volume 237. 1 May 2022. https://doi.org/10.1016/j.solener.2022.03.014

THESIS: **A Validated Model, Scalability, and Plant Growth Results for an Agri-Voltaic Greenhouse**
- Villanova University ProQuest Dissertations Publishing, 2021
https://www.proquest.com/openview/6077389af495b2e836f4e9c04b77399d/1?pq-origsite=gscholar&cbl=18750&diss=y

Low-temperature and dynamic magnetism of highly frustrated $5d^2Li_4MgOsO_6$ polymorphs in comparison with $5d^3Li_3Mg_2OsO_6$

- Physical Review B. Volume 98. Issue 18. 1 Nov, 2018.
https://doi.org/10.1103/PhysRevB.98.184401