

Noah B. Manz

Curriculum vitae

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EDUCATION

Master of Science in Materials and Metallurgical Engineering

- New Mexico Institute of Mining and Technology, Jun. 2022
- Thesis: *Optimizing the Combination of Natural Pigments for Co-Sensitization of Panchromatic TiO₂ Dye Sensitized Solar Cells*
- Adviser: Dr. Paul A. Fuierer
- Ashman Award
- GPA: 4.0 / 4.0 (31 CH's)

Bachelor of Science in Materials Engineering with Option in Biomaterials Engineering, with Honors

- New Mexico Institute of Mining and Technology, May 2021
- Senior Design Project: *Design of an Explosive Microparticle Accelerator to Simulate Micrometeoroid Impacts in Space*
- Adviser: Dr. Paul A. Fuierer
- GPA: 3.5 / 4.0 (167 CH's)

Non-Degree Seeking Dual Credit and Professional Development Courses

- San Juan College (2015 – 2022)
- AUTE 113, CHEM 110, ENGL 218, ANTH 1115, PSYC 1110

ACADEMIC

EMPLOYMENT

HISTORY

Teaching Assistant, New Mexico Tech, MTLs 235 / 235L	Jan. '22 - May '22
Teaching Assistant, New Mexico Tech, MTLs 101 / 101L	Aug. '21 - Dec. '21
Intel Future Skills Instructor, San Juan College	Jun. '18 - Aug. '18
NASA EPSCoR Research Assistant, New Mexico Tech	Aug. '17 - May '19

PEER-
REVIEWED
JOURNAL
PUBLICATIONS

- [1] Manz, N.B., Fuierer, P.A. “Mathematical Approach to Optimizing the Panchromatic Absorption of Natural Dye Combinations for Dye-Sensitized Solar Cells”. *Colorants* 2023, 2, 90-110.
- [2] Manz, N.B. “Optimizing the Combination of Natural Pigments for Co-Sensitization of Panchromatic TiO₂ Dye Sensitized Solar Cells”. Proquest Dissertations Publishing. 2022.
- [3] (*in review*) Manz, N.B., Fuierer, S.H., Fuierer, P.A. “Design of an Explosive Microparticle Accelerator to Simulate Micrometeoroid Impacts in Space”. Submitted to Journal of Student Reporting for review. 2022.
- [4] Kowalski, B.M., Manz N.B., Kalugin N.G., “Role of Humidity in Oxidation of Ultrathin GaSe”. *Materials Research Express*, 2019, 6.
- [5] Manz, N.B. “Turbocharger Turbojet”. *New Mexico Journal of Science: Water, Energy, and the Environment*, 2014, 48.

TECHNICAL
CONFERENCE
PRESENTATIONS

- [1] The 32nd Annual Rio Grande Symposium on Advanced Materials, Albuquerque 2022. “Optimizing the Combination of Natural Pigments for Co-Sensitization of Panchromatic TiO₂ Dye Sensitized Solar Cells”.
- [2] Intel ISEF, Los Angeles 2017. “A Low Pressure Graphene Epitaxy on Cu from Activated Amorphous Carbon”.
- [3] Intel ISEF, Phoenix 2016. “Constituent Disintegration of CO₂ and Sonic Exfoliation of Graphite Oxide for Graphene Synthesis”.