

Yaron I. Ganor

Born: 17/11/1987
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Education

- 2022 - present Ph.D. Candidate, Department of Mechanical Engineering, Ben Gurion University,
Thesis subject: "Microstructural Investigation in the Electron Beam Powder Bed
Fusion Process of Stainless Steel",
Thesis advisors: Prof. Gennady Ziskind, Prof. Am. Nahum Frage, and Dr. Eitan
Tiferet.
- 2017 - 2020 M.Sc., Department of Materials Engineering, Ben Gurion University,
Thesis subject: "Selected Mechanical Properties and Anelastic Phenomena in
Ti6Al4V Alloy Additively Manufactured by Electron Beam Melting",
Thesis advisors: Prof. Roni Z. Shneck and Dr. Ori Yeheskel.
- 2012 - 2017 B.Sc. in Materials Engineering, Faculty of Engineering, Ben Gurion University of
the Negev.
- 2012 - 2017 B.Sc. in Mechanical Engineering, Faculty of Engineering, Ben Gurion University
of the Negev.

Employment

- 2018 - present Materials Department, Nuclear Research Center Negev.
- 2017-2018 Additive Manufacturing Center, Rotem Industries Ltd.
- 2016-2017 Metallurgic Laboratory, Bet-Shemesh Engines Ltd.

Professional and Administrative Activities

- 2018 - present Research Staff Member
- Additive manufacturing
 - Simulation and verification of processes and experiment design.
 - Manipulation of additive manufacturing processes for optimization of mechanical properties and microstructure.
 - Tailoring post processes for additive manufacturing.
 - Powder technology densification systems (HIP, CIP, sintering).
- 2017 - 2018 Research and Development Engineer
- 2016 - 2017 Metallurgist

Awards and Honors

- 2021 Nuclear Research Center Negev Director's Award for Outstanding Research

Academic Publications

- M1. E. Strumza, P. Landau, G. Kimmel, **Y.I. Ganor**, O. Yehekel, S. Hayun, "Thermophysical Properties of Ti6Al4V Fabricated by Powder Bed Fusion Methods", *Additive Manufacturing*, 2022, 58, 103045.
- M2. K.M. Bertsch, T. Voisin, J.B. Forien, E. Tiferet, **Y.I. Ganor**, M. Chonin, Y.M. Wang, M.J. Matthews, "Critical Differences Between Electron Beam Melted and Selective Laser Melted Ti-6Al-4V", *Materials & Design*, 2022, 216, 110533.
- M3. **Y.I. Ganor**, M. Chonin, A. Garkun, R.Z. Shneck, O. Yehekel, "Anelastic Phenomena at Room Temperature in Ti6Al4V Produced by Electron Beam Melting", *Additive Manufacturing*, 102722, Accepted Feb. 27, 2022.
- M4. **Y.I. Ganor**, E. Tiferet, S.C. Vogel, D. W. Brown, M. Chonin, A.M. Hajaj, A. Pesach, A. Garkun, S. Samuha, R. Z. Shneck, O. Yehekel "Tailoring Microstructure and Mechanical Properties of Additively Manufactured Ti6Al4V Using Post Processing", *Materials*, 2021, 14,658.
- M5. E. Damri, E. Tiferet, M. Chonin, **Y.I. Ganor**, D. Braun, I. Orion, "Optimization of gas pressure during electron beam energy deposition in EBM additive manufacturing process", *Metals*, 2021, 11, 601.
- M6. E. Landau, E. Tiferet, **Y. I. Ganor**, R. K. Ganeriwala, J. M. Manyalibo, D. Braun, M. Chonin and G. Ziskind, "Thermal characterization of the build chamber in electron beam melting," *Additive Manufacturing*, August 2020.
- M7. N.U. Navi, J. Tenenbaum, E. Sabatani, G. Kimmel, R. Ben David, B.A. Rosen, Z. Barkay, V. Ezersky, E. Tiferet, **Y.I. Ganor**, N. Eliaz, "Hydrogen effects on electrochemically charged additive manufactured by electron beam melting (EBM) and wrought Ti6Al4V alloys", *International Journal of Hydrogen Energy*, Published July 2020.
- M8. E. Tiferet, M. Ganor, D. Zolotaryov, A. Hadjadj, M. Chonin, **Y.I. Ganor**, D. Noiman, I. Halevy, O. Tevet, O. Yehekel, "Mapping the tray of Melting of Ti64: Properties and microstructure", *Materials*, 12, 1470; doi 103390/m, a12091470, 2019.