

Lista de lucrări științifice

a) Lista de lucrări:

1. Manu Ioana Daniela, *Polietilena-Polimer Reprezentativ, Modificarea caracteristicilor fizico-mecanice ale polietilenei*, International Multilingual Journal of Science and Technology (IMJST), ISSN:2528-9810, 2020, vol. 5, nr. 11, pp. 1890-1895, <https://www.imjst.org/wp-content/uploads/2020/11/IMJSTP29120369.pdf>.
2. Ioana-Daniela Manu, *The Effect of Rotating-Bending Fatigue on High-Density Polyethylene*, Romanian Journal of Petroleum & Gas Technology, 2022, vol. III (LXXIV), nr. 1, pp. 71-82, DOI: 10.51865/JPGT.2022.01.08.
3. Ioana Daniela Manu, *Internal Pressure Test on HDPE Pipe Ring*, Materiale Plastice, 2022, vol. 59, nr. 3, pp. 21-30, <https://doi.org/10.37358/MP.22.3.5603>.
4. Ioana-Daniela Manu, Marius Gabriel Petrescu, Dragoș Gabriel Zisopol, Ramadan Ibrahim Naim, Costin Nicolae Ilinca, *The Mechanical Behavior of High-Density Polyethylene under Short-Time Hydraulic Pressure Test*, Engineering, Technology & Applied Science Research, 2024, vol. 14, nr. 3, pp. 14062-14068, <https://doi.org/10.48084/etasr.7182>.
5. Ioana-Daniela Manu, Marius Gabriel Petrescu, Ramadan Ibrahim Naim, *Theoretical and Experimental Considerations Regarding the Evaluation of the Mechanical Characteristics of Polyethylene Pipes Under Multiple Loading Conditions*, International Journal of Advanced Engineering and Management Research, 2025, vol. 10, nr. 01, pp. 200-220, ISSN: 2456-3676, <http://dx.doi.org/10.51505/ijaemr.2025.1011>.
6. Ioana-Daniela Manu, Marius Gabriel Petrescu, Cătălin Blag, Ramadan Ibrahim Naim, *Assessment of the Service Life of Polyethylene Pipes with Controlled Defects Using Internal Pressure Test*, Materials, 2025, vol. 18, nr. 23, pp. 2796-2811, <https://doi.org/10.3390/ma18235407>.

b) Teza de doctorat

Ioana-Daniela Manu, Teză de doctorat, Cercetări privind influența defectelor asupra rezistenței mecanice a conductelor de polietilenă, UPG Ploiești, 2024, [\[PDF\] upg-ploiesti.ro](#).

Data completării: 02.06.2026