

---

# Experimental technique in investigating the energotechnological process of nitrogen condensation in titanium

© A.L. Lysenko

Kaluga Branch of Bauman Moscow State Technical University, Kaluga, 248000, Russia

*This paper describes the design of the device to condense nitrogen in titanium. The author considers the variants of condensation of wet and dry nitrogen. The main stages of carrying out the experiment are demonstrated.*

**Keywords:** *energotechnological processes, nitrogen condensation, transport and kinetic processes.*

## REFERENCES

- [1] Lysenko A.L. Fizicheskie protsessy protekayushchie pri szhiganii titana v srede azota, i razrabotka na ikh osnove tekhnologii vakuumirovaniya. [Physical processes occurring during the combustion of titanium in nitrogen, and the development of technology based on their evacuation]. *Avtoreferat dissertatsii na soiskanie uchenoi stepeni kandidata tekhnicheskikh nauk* [Author's abstract of PhD diss.]. Moscow, 2008.
- [2] Lysenko A.L., Gorbunov A.K., Grachev V.V., Bulanov A.V. *Fiziko-khimicheskie protsessy v tekhnologii vakuumirovaniya pri szhiganii poroshka titana v srede azota* [Physico-chemical processes in vacuum technology for burning titanium powder in nitrogen]. Moscow, Naukoemkie tekhnologii Publ., 2008.
- [3] Lysenko L.V., Bulanov A.V., Lysenko A.L. Otsenka kinetiki energotekhnologicheskikh protsessov [Evaluating the kinetics of energotechnological processes]. *V sbornike: Energotekhnologicheskie protsessy. Problemy i perspektivy* [Coll. Articles. Energotechnological processes. Problems and prospects]. Moscow, BMSTU Publ., 2004.

**Lysenko A.L.** (b. 1974) graduated from Kaluga Branch of Bauman Moscow State Technical University. Ph.D., Assoc. Professor of the Physics Department, Kaluga Branch of BMSTU. Scientific interests include investigation of energotechnological processes.

---