

Curriculum Vitae



PERSONAL

Name
Nataliia Imbirovych

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INTERESTS

Methods of surface hardening of metals, Protective coatings, Structure of metals, Properties of metals

LANGUAGES

English ● ● ● ● ●

Ukrainian ● ● ● ● ●

PROFILE

Modeling, predicting and shaping the properties of coatings on metals by selecting them for specific tasks.

WORK EXPERIENCE

Sept 2025 - Sept 2030	Head of the Department of Material Science <i>Lutsk National Technical University, Lutsk</i>
Apr 2022 - Jul 2022	Project coordinator <i>House of Europe, Lutsk National Technical University</i> Creation of an online course "Technologies for surface treatment and restoration of products" using the best experience of European and Ukrainian practices for the manufacture and implementation of new generation implants
Jan 2023 - Jun 2023	Funded investigator <i>TEAM NET project of the Foundation for Polish Science, Lutsk, Bialostok</i> Modern biocomposites for the economy of the future: BIOG-NET
Jan 2017 - Dec 2018	Funded investigator <i>Government order, Lutsk</i> Development of technologies for obtaining materials for structural and tribotechnical purposes based on industrial waste

EDUCATION AND QUALIFICATIONS

Sept 1997 - Jun 2002	Master degree <i>Lutsk State Technical University, Lutsk</i> Material Science (summa cum laude)
Nov 2002 - Nov 2006	Ph.D <i>Lutsk National Technical University, Lutsk</i> Thesis on the topic: "Development of oxide ceramic coatings on zirconium and titanium alloys by plasma electrolytic treatment"
Sept 2020 - Jun 2024	Doctor of technical sciences <i>Lutsk National Technical University, Lutsk</i> Thesis on the topic: "Mechanisms and regularities of Plasma-electrolytic synthesis of biocoatings based on titanium alloys"

НАЛАШТОВУВАНИЙ РОЗДІЛ

Research interests & expertise:

- Technology of materials
- Electrochemistry, alkaline electrolytes
- Spectral properties of electrolyte plasma
- Oxide-ceramic coatings, surface hardening and functionalisation
- Microhardness, wear resistance, X-ray structural analysis

НАЛАШТОВУВАНИЙ РОЗДІЛ

TEACHING COURSES:

- Diagnosis and defectoscopy of materials and products
- Innovative technologies in materials science
- Technology of surface treatment and restoration of products
- Physicochemical properties of materials

НАЛАШТОВУВАНІЙ РОЗДІЛ

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57223183682>

Google Scholar: <https://scholar.google.com.ua/citations?hl=uk&user=DdepJHUAAAAJ>

Researchgate: [researchgate.net/profile/Natalia-Imbirovych?](https://researchgate.net/profile/Natalia-Imbirovych?ev=hdr_xprf&_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUlLCJwYWdlIjoicHVibGljYXRpd)

[ev=hdr_xprf&_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUlLCJwYWdlIjoicHVibGljYXRpd](https://researchgate.net/profile/Natalia-Imbirovych?ev=hdr_xprf&_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUlLCJwYWdlIjoicHVibGljYXRpd)

Web on Science: <https://www.webofscience.com/wos/author/record/AAC-9846-2019>

Google Academia: <https://scholar.google.com.ua/citations?hl=uk&user=DdepJHUAAAAJ>

LinkedIn: <https://www.linkedin.com/in/natalia-imbirvych-546874173/>

PUBLICATIONS

1. N. Imbirovych, O. Povstyanoy, I. Boiarska, N. Redko, T. Nykoliuk, in: V. Tonkonogyi, V. Ivanov, J. Trojanowska, G. Oborskyi (eds.), *Advanced Manufacturing Processes VI. Interpartner 2024. Lecture Notes in Mechanical Engineering*. Springer, Cham. 2025, pp.423-433; https://doi.org/10.1007/978-3-031-82746-4_37
2. N.Y. Imbirovych, O.I. Zvirko, K.J. Kurzydowski, *Mater. Sci.* 59 (2023) 451-458. <https://doi.org/10.1007/s11003-024-00797-4>
3. N. Imbirovych, O. Zvirko, O. Povstianoi, V. Tkachuk, *Proc. Str. Integr.* 59 (2024) 413-419. <https://doi.org/10.1016/j.prostr.2024.04.059>
4. O. Povstyanoy, N. Imbirovych, B. Smetjukh, Y. Karbovska, D. Seleznov, in: F.J.G. Silva, V. Ivanov, A.M.G. Pinto, R.d.C.M. Sales-Contini (eds), *Advances in Design, Simulation and Manufacturing VIII. DSMIE 2025. Lecture Notes in Mechanical Engineering*. Springer, Cham. 2025, pp.88-98. https://doi.org/10.1007/978-3-031-96413-8_9
5. O. Povstyanoy, N. Imbirovich, R. Redko, O. Redko, P. Savaryn, in: V. Tonkonogyi, V. Ivanov, J. Trojanowska, G. Oborskyi, I. Pavlenko (eds), *Advanced Manufacturing Processes V. InterPartner 2023. Lecture Notes in Mechanical Engineering*. Springer, Cham. 2023, pp.307-317. https://doi.org/10.1007/978-3-031-42778-7_28
6. N.Yu. Imbirovych, O.Yu. Povstyanoy, K.J. Kurdzydowski, V.V. Tkachuk, *The Paton Welding Journal* 12 (2024) 16-22. <http://dx.doi.org/10.37434/tpwj2024.12.03>
7. O. Povstyanoy, N. Imbirovych, V. Posuvailo, O. Zabolotnyi, T. Artyukh, in: V. Tonkonogyi, V. Ivanov, J. Trojanowska, G. Oborskyi, I. Pavlenko (eds), *Advanced Manufacturing Processes IV. InterPartner 2022. Lecture Notes in Mechanical Engineering*. Springer, Cham. 2021, pp.306-316. https://doi.org/10.1007/978-3-031-16651-8_29
8. N.Yu. Imbirovich, M.D. Klapkiv, V.M. Posuvailo, O.Yu. Povstyanoy, *Powder Metall. Met. Ceram.* 54 (2015) 47-52. <https://doi.org/10.1007/s11106-015-9678-7>
9. N.Yu. Imbirovich, O.I. Zvirko, O.Yu. Povstyanoy, A. Dubitsky, *Interuniversity collection "Scientific Notes"* 75 (2023) 120-125. <https://doi.org/10.36910/775.24153966.2023.75.21>
10. N.Yu. Imbirovich, O.Yu. Povstyanoy, N.P. Zaychuk, Y.P. Feshchuk, D.A. Gusachuk, *Interuniversity collection "Scientific Notes"* 69 (2020) 24-28. <https://doi.org/10.36910/6775.24153966.2020.69.4>
11. N. Imbirovych, *Commod. Bull.* 17 (2024) 17-26. <https://doi.org/10.62763/ef/1.2024.17>