

ОФИЦИАЛЬНЫЙ ОППОНЕНТ

Федоров Виктор Александрович

доктор физико-математических наук (специальность 01.04.07 – Физика твердого тела),
профессор, заслуженный деятель науки РФ,
профессор кафедры теоретической и экспериментальной физики
ФГБОУ ВО «Тамбовский государственный университет им. Г.Р. Державина»

Публикации:

1. **V.A. Fedorov**, A.D. Berezner, A.I. Beskrovnyi, T.N. Fursova, A.V. Pavlikov, A.V. Bazhenov. Investigation of the Structure and Properties of SiO_x Films Synthesized by Chemical Etching of Amorphous Alloy Bands // Journal "Engineering Physics". – 2019. – No. 1. – Pp. 3-10.
DOI: 10.25791/infizik.01.2019.387
2. A.D. Berezner, **V.A. Fedorov**, N.S. Perov, T.N. Pluzhnikov, D.Yu. Fedotov, A.A. Schlikova. Magnetic properties of Co-based and Fe-based tape amorphous alloys // Journal of Physics: Condensed Matter, 2020. – Vol. 32. – №11 (114001) – Pp. 1-9.
DOI.org/10.1088/1361-648X/ab5ab3.
3. **Fedorov V.A.**, Boytsova M.V., Pluzhnikova T.N., Berezner A.D. Influence of the β -particle flux and uv-irradiation on the properties of alloys, being at the non-equilibrium state // Journal of Physics: Conference Series. – 2020. – Vol. 1431. – Pp. 1-6.
DOI:10.1088/1742-6596/1431/1/012011
4. Berezner A.D., Pluzhnikova T.N., **Fedorov V.A.**, Fedotov D.Yu., Yakovlev A.V. Behavior of Metallic Glasses Under Local Loading And After External Action // Mechanics of Solids. – 2020. – Vol. 55. – No. 1. – Pp. 16–21.
DOI: 10.3103/S0025654420010057
5. **Fedorov V.A.**, Yakovlev A.V., Fedotov D.Y., Pluzhnikova T.N. Processes in tape metallic glasses when the synergistic impact of mechanical load and pulse electric current // Journal of Physics: Conference Series. – 2020. – V. 1697 (012103).
DOI: 10.1088/1742-6596/1697/1/012103
6. Berezner A.D., **Fedorov V.A.**, Zadorozhnyy M. Yu., Golovin I.S., Louzguine-Luzgin D.V. Deformation of Al₈₅Y₈Ni₅Co₂ Metallic Glasses under Cyclic Mechanical Load and Uniform Heating // Metals. – 2021. – Vol. 11 (6) – 908 – Pp. 1-9.
<https://doi.org/10.3390/met11060908>
7. T. N. Pluzhnikova, **V.A. Fedorov**, D.V. Balybin, A. D. Berezner, Yu. L. Mikhlin, D. Yu. Fedotov. Solid-phase hydrogen diffusion through a Fe₉₂Si₆b₆ amorphous membrane and its effect on the mechanical properties of a non-crystalline environment // Protection of metals and physical chemistry of surfaces. – 2021. – vol. 57. – №. 6. – Pp. 1235–1241.
DOI:10.1134/S2070205121060174
8. Berezner A.D., **Fedorov V.A.**, Zadorozhnyy M. Yu., Golovin I.S., Louzguine-Luzgin D. V. Deformation of Cu-Pd-P metallic glass under cyclic mechanical load on continuous heating // Theoretical and Applied Fracture Mechanics. 2022. – Vol. 118. – 103262 – Pp. 1-6.
<https://doi.org/10.1016/j.tafmec.2022.103262>
9. **V. A. Fedorov**, T. N. Pluzhnikova, D. Yu. Fedotov Mechanisms of the Fatigue Failure of Band Amorphous Metal Alloys In Tensile and Bending Tests // Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques, 2022. – Vol. – 16. – No. 1. – Pp. 63–67.
DOI: 10.1134/S1027451022010049
10. A.D. Berezner, **V.A. Fedorov**, M. Yu. Zadorozhnyy. Relaxation behavior of an Al-Y-Ni-Co metallic glass in as-prepared and cold-rolled state // Journal of Alloys and Compounds, 923 (2022). – 166313. – Pp. 1-10.
<https://doi.org/10.1016/j.jallcom.2022.166313>

11. Arseniy Berezner, **Victor Fedorov**. Non-isothermal dynamic mechanical analysis of ribbon metallic glasses and its thermodynamic description // Materials, 2022. – 15(8659).
<https://doi.org/10.3390/ma15238659>
12. A.V. Yakovlev, D.V. Balybin, **V.A. Fedorov**, T.N. Pluzhnikova, D.Yu. Fedotov, A.A. Shlykova Investigation of the Corrosion Properties of Bulk Amorphous Metal Alloys Based on Zirconium // Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques, 2023. – Vol. 17. – No. 5. – Pp. 960–965.
DOI: 10.1134/S1027451023050130
13. **V.A. Fedorov**, D.V. Balybin, T.N. Pluzhnikova, M.V. Boitsova, D.Yu. Fedotov, A.D. Berezner, A.V. Yakovlev. Features of electrochemical behavior of an amorphous iron- based alloy in acidic solutions containing potassium rhodanide //St. Petersburg State Polytechnical University Journal. Physics and Mathematics, 2023. – Vol. 16. – No. 1.1– Pp. 211–217.
DOI: <https://doi.org/10.18721/JPM.161.136>
14. **V.A. Fedorov**, D.V. Balybin, T.N. Pluzhnikova, D.Yu. Fedotov, A.D. Berezner, M. V. Boitsova. Corrosion Behavior of $\text{Fe}_{80.22}\text{Si}_{8.25}\text{Nb}_{10.09}\text{Cu}_{1.44}$ Amorphous Alloy in Alkali Solutions with Additions of Potassium Thiocyanate // Protection of Metals and Physical Chemistry of Surfaces, 2023. – Vol. 59. – No. 2. – Pp. 272–278.
DOI: 10.1134/S2070205123700235
15. **V.A. Fedorov**, T.N. Pluzhnikova, D.Yu. Fedotov, M.V. Boitsova. Multicycle electric pulse loading of amorphous cobalt- and iron-based alloys // Physics of the Solid State, 2024. – Vol. 66. – No.1. – Pp.123-125.
DOI: 10.61011/PSS.2024.01.57865.5039

Адрес: 392000 г. Тамбов, ул. Интернациональная, 33

Телефон: 8 (4752) 72-34-34, доб. 2018

E-mail: fedorov-tsu.tmb@inbox.ru

Сайт: <https://www.tsutmb.ru/>

Официальный оппонент

 В.А. Федоров

Проректор по научной работе,
доктор биологических наук, профессор

 А.А. Гусев

« 17 » декабря 2024 г.

