

## Publications:

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5. E. Dryzek, M. Sarnek, K. Siemek, *Annealing behaviour of plastically deformed stainless steel 1.4304 studied by positron annihilation methods*, Nukleonika, 58 (2013) 215;
6. K. Siemek, J. Dryzek, *The Computer Code for Calculations of the Positron Distribution in a Layered Stack Systems*, Acta Phys. Polon. A, 125 (2014) 833-836;
7. P. Horodek, J. Dryzek, A.G. Kobets, M. Kulik, V.I. Lohmatov, I.N. Meshkov, O.S. Orlov, V. Pavlov, A.Yu. Rudakov, A.A. Sidorin, K. Siemek, S.L. Yakovenko, *Slow Positron Beam Studies of the Stainless Steel Surface Exposed to Sandblasting*, Acta Physica Polonica Series A, 125 (2014) 714;
8. J. Dryzek, K. Siemek, *Positron accumulation effect in particles embedded in a low-density matrix*, J. Appl. Phys. 117 (2015) 055901;
9. J.Dryzek, K. Siemek, K. Ziewiec, H. Schut, *Positron annihilation and tribological studies of nano-embedded Al-alloys*, Bull. Mater. Sci. 38 (2015) 1;
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11. J. Dryzek, S. Nojiri, M.Fujinami, E. Dryzek, K. Siemek, W. Pachla, *The positron probe micro-analyser studies of defect distribution induced by machining of copper, iron and titanium*, Tribology Letters 60 (2015) 16;
12. J. Dryzek, K. Siemek, *The detection of reverse accumulation effect in the positron annihilation profile of stack of aluminium and silver foils*, Nukleonika 60 (2015) 713;

13. J. Dryzek, K. Siemek, *Formation of subsurface zone induced by sliding wear in zirconium studied by positron lifetime spectroscopy*, Tribol. Lett. 64 (2016) 15;
14. K. Siemek, E.V. Ahmanova, M.K. Eseev, V.I. Hilinov, P. Horodek, A.G. Kobets, I.N. Meshkov, O.S. Orlov, A.A. Sidorin, *Realization of positron annihilation spectroscopy at LEPTA facility*, Proceedings of RuPAC2016, WEPSB059;
15. P. Horodek, K. Siemek, J. Dryzek, A.G. Kobets, M. Wróbel, *Positron annihilation and complementarny studies of stainless steel exposed to sandblasting at different angles*, Tribol. Lett. 64 (2017) 30;
16. P. Horodek, K. Siemek, J. Dryzek, M. Wróbel, *Positron Annihilation and Complementary Studies of Copper Sandblasted with Alumina Particles at Different Pressures*, Materials 10 (2017) 1343;
17. S. Kurdyumov, K. Siemek, P. Horodek, *Positron annihilation spectroscopy studies of bronze exposed to sandblasting at different pressure*, J. Phys.: Conf. Ser. 791 (2017) 012029;
18. J.Romanowska, E.Dryzek, J.Morgiel, K.Siemek, Ł.Kołek, M. Zagula-Yavorska, *Microstructure and positron lifetimes of zirconium modified aluminide coatings*, Archives of Civil and Mechanical Engineering 18 (2018) 1150;
19. K.Skowron, K.Siemek, *Positron annihilation spectroscopy studies of sandblasted copper*, Acta Physica Polonica B Proceedings Supplement 11 (2018) 4;
20. J.Dryzek, K.Siemek, *Defects and their range in pure bismuth irradiated with swift Xe ions studied by positron annihilation techniques*, Applied Physics A 125 (2019) 85;
21. K. Siemek, M. Kulik, M. K. Eseev, A. G. Kobets, M. Wróbel, O. S. Orlov, A. A. Sidorin, *Surface and subsurface defects studies of dental alloys exposed to sandblasting*, Acta Metallurgica Sinica (English Letters) 32 (2019) 1181;
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23. P.Horodek, K.Siemek, J.Dryzek, M. Wróbel, *Impact of abradant size on damaged zone of 304 AISI steel characterized by positron spectroscopy*, Metallurgical and Materials Transcations A 50 (2019) 1502;
24. M.Eseev, P.Horodek, V.Khilinov, A.Kobets, V.Kobets, I. Meshkov, O.Orlov, K.Siemek, A.Sidorin, *Developent of Positron Annihilation Spectroscopy at Joint Institute for Nuclear Research*, Acta Physica Polonica A 136 (2019) 315;
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30. R.Laptev, A. Lomygin, D. Krotkevich, M. Syrtanov, E. Kashkarov, Y. Bordulev, K. Siemek, A. Kobets, *Effect of Proton Irradiation on the Defect Evolution of Zr/Nb Nanoscale Multilayers*, Metals 2020, 10, 535