

Данні про цитування основних праць авторів роботи  
**« СТВОРЕННЯ ФУНКЦІОНАЛЬНИХ ВАКУУМНИХ ПЛАЗМОВИХ  
ТА ДИФУЗІЙНИХ ПОКРИТТІВ ШИРОКОГО СПЕКТРУ  
ЗАСТОСУВАННЯ»**

№	Назва статті (монографії), автори, назва видання, рік, том, сторінка або DOI	Scopus	Web of Science	Google Scholar
1	2	3	4	5
1	Structures and properties of hard and superhard nanocomposite coatings A.D. Pogrebnyak, A.P. Shpak, N.A. Azarenkov, V.M. Beresnev// Physics-Uspekhi.-2009.-Vol. 52(1).-P.. 29-54.	186	154	139
2	The structure and properties of high-entropy alloys and nitride coatings based on them / A.D. Pogrebnyak, A.A. Bagdasaryan, I.V. Yakushchenko and V.M. Beresnev // Russian Chemical Reviews.-2014.-Vol. 83(11).- P.1027-1061.	119	100	27
3	Nanocoatings nanosystems nanotechnologies/ Pogrebnyak A.D., Beresnev V.M.// Bentham Science Publishers.- P.O.Box446 Oak Park. IL.USA.-2012.-147p.	81	81	
4	Structure and properties of arc evaporated nanoscale TiN/MoN multilayered systems/ A.D.Pogrebnyak, D.Eyidi,G.Abadias,O.V.Bondar,V.M.Beresnev// International Journal of Refractory metals and hard materials.-2015.-Vol. 48.-P.222-228.	67	58	
5	Shape memory effect and superelasticity of titanium nickelide alloys implanted with high ion doses/A.D. Pogrebnyak, S.N. Bratushka, V.M. Beresnev and N. Levintant-Zayonts//Russian Chemical Reviews.- 2013.-Vol. 82(12).-P. 1135-1159.	66	57	14
6	Irradiation resistance, microstructure and mechanical properties of nanostructured (TiZrHfVNbTa)N coatings/A.D. Pogrebnyak I.V. Yakushchenko , O.V. Bondar, V.M. Beresnev , K. Oyoshi , O.M. Ivasishin , H. Amekura , Y.Takeda , M. Opielak , C. Kozak// Journal of Alloys and Compounds.-2016.- Vol. 679.-P.155-163.	65	63	
7	Corrosion resistance of Ti-6Al-4V alloy with nitride coatings in Ringer's solution / I. M. Pohrelyuk, V.M. Fedirko, O.V. Tkachuk, R.V. Proskurnyak // Corrosion Science. – 2013. – Vol. 66. - P. 392–398.	62	60	69
8	Adhesive strength, superhardness, and the phase and elemental compositions of nanostructured coatings based on Ti-Hf-Si-N/A. D. Pogrebnyak, V. M. Beresnev, A. A. Demianenko, V. S. Baidak, F. F. Komarov, M. V. Kaverin, N. A. Makhmudov & D. A. Kolesnikov// Physics of the Solid State.- 2012.-Vol. 54(9).-P. 1882-1890.	47	40	

1	2	3	4	5
9	Multilayer design of CrN/MoN protective coatings for enhanced hardness and toughness/ B.O. Postolnyi, V.M. Beresnev, G. Abadias , O.V. Bondar, L. Rebouta , J.P. Araujo , A.D. Pogrebnjak// Journal of alloys and compounds.- 2017,-Vol. 725.-P..1188-1198.	36	29	
10	Malinauskas, T., Jarasiunas, K., Ivakin, E., Ralchenko, V., Gontar, A., Ivakhnenko, S. Optical evaluation of carrier lifetime and diffusion length in synthetic diamonds (2008) Diamond and Related Materials, 17 (7-10), pp. 1212-1215.	34		
11	Superhard CrN/MoN coatings with multilayer architecture /A.D. Pogrebnjak, V.M. Beresnev , O.V. Bondar, B.O. Postolnyi, K. Zaleski, E. Coy , S. Jurga , M.O. Lisovenko , P. Konarski , L. Rebouta, J.P. Araujo //Materials and Design.- 2018 .-Vol. –P.153, c. 47-59	33	20	
12	Multilayered Nano-Microcomposite Ti-Al-N/TiN/Al <sub>2</sub> O <sub>3</sub> Coatings. Their Structure and Properties /A.D. Pogrebnjak, A.P. Shpak, G.V. Kirik, N.K. Erdybaeva, M.V. Il'yashenko,A.A. Dem'yanenko, Yu.A. Kunitskii, A. Sh. Kaverina, V.S. Baidak,N.A. Makhmudov, P.V. Zukowski, F.F. Komarov, V.M. Beresnev, Sh.M. Ruzimov and A.P. Shypylenko //Acta Physica Polonica A.- 2011.-Vol. 120(1),-P. 94-99.	28	30	
13	The effects of Cr and Si additions and deposition conditions on the structure and properties of the (Zr-Ti-Nb)N coatings /A.D.Pogrebnjak, A.A.Bagdasaryan,V.M.Beresnev,U.S.Nyemchenko,V.I.Ivashchenko,Ya.O.Kravchenko,ZH.K.Shaimardanov,S.V.Plotnikov, O.Maksakova//Ceramics International.-2017.-Vol. 43(1).-P. 771-782.	26	23	
14	Arc-Evaporated Nanoscale Multilayer Nitride-Based Coatings for Protection Against Wear, Corrosion, and Oxidation/ A.D.Pogrebnjak, O.M.Ivasishin, V.M.Beresnev//Uspehi Fiziki Metallov.-2016.-Vol. 17(1).-P.. 1-28.	25		
15	The influence of nitrogen pressure on the fabrication of the two-phase superhard nanocomposite (TiZrNbAlYCr)N coatings /A.D. Pogrebnjak , V.M. Beresnev , K.V. Smyrnova , Ya.O. Kravchenko , P.V. Zukowski ,G.G. Bondarenko // Materials Letters.-2018.-Vol. 21.-P. 316-318.	24	15	
16	The influence of nitrogen pressure on the fabrication of the two-phase superhard nanocomposite (TiZrNbAlYCr)N coatings./ A.D.Pogrebnjak,V.M.Beresnev,K.V.Smyrnova,Ya .O.Kravchenko,P.V.Zukowski,G.G.Bondarenko 2018 //Materials Letters.-2018.-Vol. 211.-P.316-318.	24	15	

1	2	3	4	5
17	Structure and Properties of Multilayer Nanostructured Coatings TiN/MoN Depending on Deposition Conditions/ A.D. Pogrebnjak; G. Abadias; O.V. Bondar; B.O. Postolnyi; M.O. Lisovenko; O.V. Kyrychenko; A.A. Andreev; V.M. Beresnev; D.A. Kolesnikov; M. Opielak// Acta Physica Polonica A.-2014.-Vol. 125(6).- P. 1280-1283.	20	19	
18	Comparison of tribological characteristics of nanostructured TiN, MoN, and TiN/MoN Arc-PVD coatings/V. M. Beresnev, O. V. Bondar, B. O. Postolnyi, M. O. Lisovenko, G. Abadias, P. Chartier, D. A. Kolesnikov, V. N. Borisyuk, B. A. Mukushev, B. R. Zhollybekov & A. A. Andreev// Journal of Friction and Wear .-2014.-Vol.35(5).- P.374-382.	20	18	
19	Effect of mass transfer and segregation on the formation of superhard nanostructured Ti-Hf-N(Fe) catings/A. D. Pogrebnjak, A. G. Ponomarev, D. A. Kolesnikov, V. M. Beresnev, F. S. S. Mel'nik & M. V. Kaverin//Technical Physics Letters.-2012.-Vol. 38(7).-P. 623-626.	19	19	
20	The influence of deposition conditions and bilayer thickness on physical-mechanical properties of CA-PVD multilayer ZrN/CrN coatings/ O.Maksakova,S.Simoēs,A.Pogrebnjak,O.Bondar, Y.Kravchenko,V.Beresnev,N.Erdybaeva// Materials Characterization.-2018.Vol. 140.- P.189-196.	19	9	
21	A new type of (TiZrNbTaHf)N/MoN nanocomposite coating: Microstructure and properties depending on energy of incident ions/ A.A.Bagdasaryan, A.V.Pshyk ,L.E.Coy, P.Konarski ,M.Misnik V.I.Ivashchenko, M.Kempiński , N.R.Mediukh, A.D.Pogrebnjak, V.M.Beresnev, S.Jurga//Composities part B. Engineering.-2018.-Vol. 146.-P.132-144.	18	13	
22	Protection of specimens against friction and wear using titanium-based multicomponent nanocomposite coatings: A review/ A.D. Pogrebnjak, A. V. Pshyk, V. M. Beresnev & B. R. Zhollybekov// Journal of friction and wear.- 2014 -T. 35(1).-C. 55-66	18	16	
23	Nano- multilayered coatings of (TiAlSiY)N MeN (Me=Mo, Cr and Zr) influence of composition of the alternating layer on their structural and mechanical properties/Y.O Kravchenko., I.E.Goy, B. Peplińska, I.Iatsunsky, K. Zaleski, M.Kempiński, V.M.Beresnev, P.Konarski, S.Jurga, A.D.Pogrebnjak// J. of Alloys and Compounds.-2018.-Vol.767. P.-483-495.	17	11	

1	2	3	4	5
24	Microstructure and Physical–Mechanical Properties of (TiAlSiY)N Nanostructured Coatings Under Different Energy Conditions/ K. V. Smyrnova, A. D. Pogrebnjak, V. M. Beresnev, S. V. Litovchenko, S. O. Borba-Pogrebnjak, A. S. Manokhin, S. A. Klimenko, B. Zhollybekov, A. I. Kupchishin, Ya. O. Kravchenko. O. V. Bondar //Metals and Materials International. -2018.-Vol. 24.-P.1024–1035	16	6	
25	High temperature behavior of functional TiAlBSiN nanocomposite coatings/A.V.Pshyk, L.E.Coy,G.Nowaczyk,M.Kempiński,B.Peplińska, A.D.Pogrebnjak,V.M.Beresnev,S.Jurga //Surface and coatings technology.-2016.V. 305.-P.49-61	16	17	
26	Nanostructured multielement (TiHfZrNbVTa)N coatings before and after implantation of N <sup>+</sup> ions (10 <sup>18</sup> cm <sup>-2</sup> ): Their structure and mechanical properties/A.D.Pogrebnjak, O.V.Bondar, S.O.Borba, G.Abadias, P.Konarski, S.V.Plotnikov,V.M.Beresnev,L.G.Kassenova //Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms.-2016.-Vol. 385, - P. 74-83	13	10	
27	ЕН Решетняк, ВЕ Стрельницкий. Синтез упрочняющих наноструктурных покрытий // Вопросы атомной науки и техники, 2008, № 2, С. 119-130.	13		67
28	Kutsay, O., Yan, C., Chong, Y.M., Ye, Q., Bello, I., Zhang, W.J., Zapien, J.A., Zhou, Z.F., Li, Y.K., Garashchenko, V., Gontar, A.G., Novikov, N.V., Lee, S.T. Studying cubic boron nitride by Raman and infrared spectroscopies (2010) Diamond and Related Materials, 19 (7-9), pp. 968-971.	13		
29	Lysenko, O., Novikov, N., Grushko, V., Shcherbakov, A., Katrusha, A., Ivakhnenko, S., Tkach, V., Gontar, A. Fabrication and characterization of single crystal semiconductive diamond tip for combined scanning tunneling microscopy (2008) Diamond and Related Materials, 17 (7-10), pp. 1316-1319.	13		
30	Formation of superhard Ti-Hf-Si-N/NbN/Al <sub>2</sub> O <sub>3</sub> multilayer coatings for highly effective protection of steel /A. D. Pogrebnjak, V. M. Beresnev, A. Sh. Kaverina, A. P. Shypylenko, O. V. Kolisnichenko, K. Oyoshi, Y. Takeda, H. Murakami, D. A. Kolesnikov, M. S. Prozorova //Technical Physics Letters-2013.- Vol 39(2).-p. 189-192.	12	13	4
31	Oxidation of nitride layers formed on Ti-6Al-4V alloys by gas nitriding / Dong-Bok Lee, Min Jung Kim, Li Chen, Sang Hwan Bak, O. Yaskiv, I.	12		12

1	2	3	4	5
	Pohrelyuk, V. Fedirko // Metals and Materials International. - 2011. - vol. 17. - №3. - P. 471 – 477.			
32	Gas nitriding and subsequent oxidation of Ti-6Al-4V alloys / Dong Bok Lee, Iryna Pohrelyuk, Oleh Yaskiv, Jae Chun Lee // Nanoscale Research Letters. - 2012. - 7:21.	12		24
33	Formation of Oxynitrides on Titanium Alloys by Gas Diffusion Treatment / N. Yaskiv, O.I., Pohrelyuk, I.M., Fedirko, V.M., Lee, Dong Bok, Tkachuk, O.V. // Thin Solid Films. – 2011. - Vol. 519, №19. – P. 6508 – 6514.	11	11	19
34	Investigation of the structure and physicochemical properties of combined nanocomposite coatings based on Ti–N–Cr/Ni–Cr–B–Si–Fe/ A.D. Pogrebnyak, M. M. Danilenok, A. A. Drobyshevskaya, V. M. Beresnev, N. K. Erdybaeva, G. V. Kirik, S. N. Dub, V. S. Rusakov, V. V. Uglov, A. P. Shipilenko & Yu. Zh. Tuleushev//Russian physics journal.-2009.-Vol. 52(12).-P.1317-1324	10	13	8
35	Formation of functional coatings based on interstitial compounds on titanium under the conditions of thermodiffusion saturation / V. M. Fedirko, I. M. Pohrelyuk and O. I. Yas'kiv // Materials Science. - 2006. – Vol.42, No.3. - P.299-308.	10	8	8
36	Lysenko, O., Novikov, N., Gontar, A., Grushko, V., Shcherbakov, A. Combined scanning nanoindentation and tunneling microscope technique by means of semiconductive diamond Berkovich tip (2007) Journal of Physics: Conference Series, 61 (1), art. no. 148, pp. 740-744. .	10		
37	Kutsay, O., Loginova, O., Gontar, A., Perevertailo, V., Zanevskyy, O., Katrusha, A., Ivakhnenko, S., Gorokhov, V., Starik, S., Tkach, V., Novikov, N. Surface properties of amorphous carbon films (2008) Diamond and Related Materials, 17 (7-10), pp. 1689-1691.	9		10
38	Structural and mechanical characterization of (TiZrNbHfTa)N/WN multilayered nitride coatings/A.A. Bagdasaryan, A.V. Pshyk, L.E. Coy, M. Kempinski, A.D.Pogrebnyak, V.M.Beresnev. S. Jurga//Materials Letters .- 2018.Vol. 229.-p. 364-367.	8	6	
39	Multicomponent and multilayered vacuum-Arc coatings for the cutting tools /V.M. Beresnev, M.Yu. Kopejkina, S.A. Klimenko//Problems of atomic science and technology.- 2008. № 1. (17), P.152 – 158	8	1	9

1	2	3	4	5
40	Stoichiometry, phase composition, and properties of superhard nanostructured Ti-Hf-Si-N coatings obtained by deposition from high-frequency vacuum-arc discharge/A. D. Pogrebnyak, A. P. Shpak, V. M. Beresnev, G. V. Kirik, D. A. Kolesnikov, F. F. Komarov, P. Konarski, M. V. Kaverin, V. V. Grudnitskii //Technical Physics Letters .-2011.-vol. 37(7).-P. 636-639.	8	9	9
41	Soroka, O.B., Klymenko, S.A., Kopeikina, M.Yu. Evaluation of residual stresses in PVD-coatings. Part 2 (2010) Strength of Materials, 42 (4), pp. 450-458.	8		12
42	<u>Formation of oxynitride layers on titanium alloys by gas diffusion treatment</u> / I. Pohrelyuk, O. Yaskiv, O. Tkachuk, and Dong Bok Lee // Metals and Materials International:. – 2009. - Volume 15, Number 6, 949-953.	7		8
43	Wear Resistance of VT22 Titanium Alloy After Nitriding Combined with Heat Treatment / I. M. Pohrelyuk, M. V. Kindrachuk, S. M. Lavrys' // Materials Science. 2016. Vol. 52, Is. 1. P. 56-61.	7	5	9
44	Kinetics of the electron beam induced crystallization of Amorphous ZrO <sub>2</sub> Films obtained via ion-plasma and laser sputtering/ A.G.Bagmut, V.M. Beresnev//Physics Solid State.-2017.- Vol.59(1).-P.151-155	7	7	
45	Wear resistance of two-phase titanium alloy after deformation-diffusion treatment / I. M. Pohrelyuk, S.E. Sheykin, J. Padgurskas, S.M. Lavrys // Tribology Internations. 2018. Vol. 127. P. 404–411.	7	7	9
46	Rubshtein, A.P., Trakhtenberg, I.Sh., Volkova, E.G., Vladimirov, A.B., Gontar, A.G., Uemura, K. The interrelation between structure and mechanical properties of CN <sub>x</sub> (0 ≤ x ≤ 0.5) coatings obtained by graphite arc sputtering (2005) Diamond and Related Materials, 14 (11-12), pp. 1820-1823.	7		
47	Corrosion resistance of the nitrated Ti-6Al-4V titanium alloy in 0,9% NaCl / I. M. Pohrelyuk, O. V. Tkachuk and R.V.Proskurnyak // JOM. – 2011. - Volume 63, Number 6. - P. 35 - 40.	6	5	10
48	Formation of carbonitride coatings on titanium through thermochemical treatment from carbon-nitrogen-oxygen-containing media / Pohrelyuk I.M., Yaskiv, O., Fedirko V. // JOM.- Volume 59, Number 6 / June 2007. – P.32 – 37.	6		10
49	Influence of parameters of modifying oxygen-containing atmosphere on oxynitriding of titanium alloys/ Pohrelyuk, I.M., Fedirko, V.M., Yas'Kiv, O.I., Lee, D.-B., Tkachuk, O.V. // Materials Science. - 2009. – Vol.45, No.6. - P.779-789.	5	6	6

1	2	3	4	5
50	AlN-(TiCr)B <sub>2</sub> ion-plasma coating for cutting tools of cBN-based polycrystalline superhard material/ S.A.Klimenko, I.A.Podchernjaeva, V.M.Beresnev, V.M.Panashenko, A.An.Klimenko, M.Y.Kopeikina // J.Supper Hard Matirials - 2014, Vol. 36, No.3, pp 208-216.	5	4	4
51	Adhesive strength and physical, mechanical, and triboengineering properties of nano- and microstructural Al <sub>2</sub> O <sub>3</sub> coatings/A. D. Pogrebnyak, V. M. Beresnev, A. Sh. Kaverina, D. A. Kolesnikov, I. V. Yakushchenko, M. V. Ilyashenko and N. A. Makhmudov //Journal of Friction and Wear.-2012.- Vol. 33(3).-P.195–202	5	5	9
52	Investigation of the surface layers of titanium after thermodiffusive saturation in a boron-containing medium / Prytula, A.O., Pohrelyuk, I.M., Yas'kiv, O.I. // Materials Science. - 2004. – Vol.40, No.1. - P.60-64.	5	4	8
53	<u>Influence of the nonstoichiometry of titanium nitride TiN<sub>x</sub> on the degree of its modification with oxygen / Pohrelyuk, I.M., Fedirko, V.M., Yas'kiv, O.I., Lee, D.-B., Tkachuk, O.V., Li, C. // Materials Science. - 2009. – Vol.45, No.4. - P. 562-570.</u>	5	3	6
54	Selection of a medium for carboxidation of titanium alloys / Huryn, S.V., Fedirko, V.M., Pohreliuk, I.M., Yaskiv, O.I. // Materials Science. - 2003. – Vol.39, No.6. - P.66-70.	5	2	9
55	Triboengineering properties of nanocomposite coatings Ti-Zr-Si-N deposited by ion plasma method/V. M. Beresnev, M. V. Kaverin, Akhmed M. Makhmud, M. Yu. Smolyakova, D. A. Kolesnikov, G. V. Kirik, F. F. Komarov, V. V. Grudnitskii, U. S. Nemchenko //Journal of Friction and Wear .-2012.-Vol. 33(3).-P167–173	4	4	
56	Special features of the application of cutting tools from polycrystalline cubic boron nitride with protective coatings / S.A. Klimenko, S.An, Klimenko,A.S. Manokhin, V.M. Beresnev// J. Superhard Materials//-2017.-Vol.39(4).-p.288-297.	4	3	
57	Features of Investigations of Multilayer Nitride Coatings Based on Cr and Zr/ O.V.Maksakova, O.D.Pogrebnyak, V.M. Beresnev // Progress in Physics of Metals.- 2018.- Vol.19( 1.)- P. 25-48	4	3	
58	Laws of formation of oxycarbide layers on titanium in carbon- and oxygen-containing media / Pohrelyuk, I.M., Yas'kiv, O.I., Fedirko, V.M., Huryn, S.V. // Materials Science. - 2003. – Vol.39, No.3. - P.400-404.	4	4	8
59	Effect of impregnating atmosphere oxygen on boriding of titanium alloys / A. O. Prytula, I. N. Pogrelyuk and V. N. Fedirko // Metal Science and	4		4

1	2	3	4	5
	Heat Treatment. – 2008. - Volume 50, Numbers 5-6. – P. 232-237.			
60	Jarasiunas, K., Malinauskas, T., Aleksiejunas, R., Monemar, B., Ralchenko, V., Gontar, A., Ivakin, E. Optical characterization of defect-related carrier recombination and transport features in GaN substrates and CVD diamonds (2009) Materials Science Forum, 600-603, pp. 1301-1304.	4		
61	Pretreatment influence on titanium surface properties after gas nitriding / I. M. Pohrelyuk, S. M. Lavrys, O. M. Sakharuk, I. V. Stasyshyn; O. V. Penkovyi // Journal of Materials Engineering and Performance. 2017. Vol. 26. Is. 10. P. 5072 – 5078.	3		3
62	Gradient Nanostructured Coatings Obtained by Magnetron Sputtering of a Multiphase AlN–TiB <sub>2</sub> –TiSi <sub>2</sub> Target/ A. D. Pogrebnyak, A. V. Pshyk, E. Coy, K. Zaleski, B. Peplinska, G. Nowaczyk, A. I. Kupchishi, V. M. Beresnev, L. G. Kassenova, and Ya. O. Kravchenko// The Physics of Metals and Metallography, 2016, Vol. 117, No. 10, pp. 990–1002.	3	2	
63	Influence of the parameters of nitriding on the subsurface hardening of VT6 titanium alloy / Pohrelyuk, I.M., Fedirko, V.M., Kravchyshyn, T.M. // Materials Science. - 2007. – Vol.43, No.6. - P.807-813.	3	6	3
64	I.I. Aksenov, V.V. Vasilyev, B.Druz, A.A. Luchaninov, A.O. Omarov, V.E. Strel'nitskij. Transport of plasma through the tubular anode and discharge stability in a vacuum arc plasma source // Surface and Coatings Technology, vol. 201, 2007, P. 6084-6089.	3	5	5
65	V.V. Vasylyev, A.A. Luchaninov, V.E. Strel'nitskij. High-productive source of the cathodic vacuum-arc plasma with the rectilinear filter // Вопросы Атомной Науки и Техники, Серия «Вакуум, чистые материалы, сверхпроводники» 2014. №1(89) pp. 97-100.	3	1	7
66	<u>Kinetic features of the process of nitriding of (<math>\alpha + \beta</math>)-titanium alloys / Matychak, Ya.S., Pohrelyuk, I.M., Fedirko, V.M. // Materials Science. – 2011. - Volume 47, Number 5. – P. 660-668.</u>	3	3	4
67	Corrosion Resistance of Titanium Alloys with Oxynitride Coatings in Concentrated Inorganic Acids / I. M. Pohrelyuk, V. M. Fedirko, O. V. Tkachuk, R. V. Proskurnyak // Materials Science. – 2014. - Volume 50, Issue 2. – P. 269-276.	3	2	6



1	2	3	4	5
68	Thermodiffusion saturation of $\alpha$ -titanium with nitrogen from a rarefied atmosphere / Matychak, Y.S., Pohrelyuk, I.M., Fedirko, V.M. // Materials Science. - 2009. – Vol.45, No.1. - P. 72-83.	3	2	7
69	Modeling of diffusion saturation of ( $\alpha+\beta$ ) titanium alloys by nitrogen in the rarefied medium / Matychak, Ya., Fedirko, V., Pohrelyuk, I., Yaskiv, O., Tkachuk, O. // Defect and Diffusion Forum. 2008. Vol. 277. -. P. 33-38.	3		3
70	Carbooxidation of titanium alloys by contact and noncontact methods / Guryn, S.V., Pogrelyuk, I.N., Fedirko, V.N. // Metal Science and Heat Treatment. – 2004. - Numbers 10. – P. 34-38.	3		
71	Effect of saturation parameters on the interaction of titanium alloys with carbon-nitrogen-containing media / Yas'kiv, O.I., Pohrelyuk, I.M., Fedirko, V.M., Dyuh, I.V. // Materials Science. - 2004. – Vol.40, No.3. - P.81-87.	3		2
72	Kutsay, O., Loginova, O., Gontar, A., Perevertailo, V., Zanevskyy, O., Katrusha, A., Novikov, N. Surface properties of amorphous carbon films. Diamond and related materials/ – 2008. – 17(7-10), 1689-1691	2		10
73	Description of the diffusion saturation of titanium with nonmetallic admixtures with regard for their segregation on the surface / Fedirko, M., Matychak, Ya.S., Pohrelyuk, I.M., Prytula, A.O. // Materials Science. - 2005. – Vol.41, No.1. - P.39-45.	2	2	5
74	Electrochemical Behavior of Titanium Synthesized by the Method of Powder Metallurgy in Hydrochloric Acid / I. M. Pohrelyuk, O. V. Ovchynnykov, A. A. Skrebtsov, B. P. Bakhmatyuk, Kh. S. Shvachko // Materials Science. 2016. Vol. 52, No 2. P. 246-252.	2	2	3
75	Effect of the rarefaction of an oxygen-containing medium on the formation of titanium oxynitrides / Pohrelyuk, I.M., Fedirko, V.M., Tkachuk, O.V. // Materials Science. - 2008. – Vol.44, No.1. - P.64-69.	2	2	4
76	Tribotechnical and mechanical properties of Ti-Al-N nanocomposite coatings deposited by the ion-plasma method/ V. M. Beresnev, A. D. Pogrebnyak, P. V. Turbin, S. N. Dub, G. V. Kirik, M. K. Kylyshkanov, O. M. Shvets, V. I. Gritsenko , A. P. Shipilenko //Journal of Friction and Wear.-2010. volume 31.-P.349–355	2	4	5
77	Increasing of functionality of c.p. titanium/UHMWPE tribo-pairs by thermodiffusion nitriding of titanium component / I. N. Pohrelyuk, S. E. Sheykin, S. M. Dub, A.G. Mamalis, I. Yu. Rostotskii, O.V. Tkachuk, S.M. Lavrys // Biotribology. 2016. Is.7. P. 38–45.	2		3

1	2	3	4	5
78	Study of wear resistance of thermal-diffusion boron nitride coatings on titanium / Pogrelyuk, I.N., Fedirko, V.N., Samborskii, A.V. // Journal of Friction and Wear. 2012. Vol. 33, Is. 5. P. 388-395.	2		2
79	Mechanism of carbooxidation of titanium by thermal diffusion saturation / S. V. Guryu, I. N. Pogrelyuk and V. N. Fedirko // Metal Science and Heat Treatment. – 2006. - Volume 48, Numbers 3-4. – P.181-184.	2		5
80	Carbooxidation of Titanium by a Gas-Phase Method from Powders // S. V. Huryn, I. N. Pohrelyuk, V. N. Fedirko // Metal Science and Heat Treatment. – 2014. - Volume 56, Issue 1. – P. 24-32.	2		3
81	Saturation of titanium alloys from graphite in nitrogen-containing environment / Pohreliuk, I.M., Yaskiv, O.I., Fedirko, V.M., Diuh, I.V. // Materials Science. - 2005. – Vol.41, No.5. - P.49-54.	2		2
82	Investigation of thermo-diffusion carbonitride coatings on titanium alloys / Pohreliuk, I.M., Diuh, I.V., Fedirko, V.M., Yaskiv, O.I. // Materials Science. - 2005. – Vol.41, No.4. - P.59-65.	2		2
83	Influence of thermodiffusion coatings on the mechanical properties of VT14 titanium alloy / A.T. Pichuhin, O. I. Yas'kiv, O. H. Luk'yanenko, I. M. Pohrelyuk // Materials Science. - 2012. - Volume 48, Number 4. – P. 538-545.	2		3
84	Kolmakov, A.G., Antipov, V.I., Klimenko, S.A., Manokhin, A.S., Kopeikina, M.Yu., Tkach, V.N., Kheifets, M.L., Tanovich, L. Structure, properties, and applications of ceramic composite produced of nanostructured powders of composition ZrO <sub>2</sub> + 3% Y <sub>2</sub> O <sub>3</sub> (2013) Journal of Superhard Materials, 35 (6), pp. 399-407.	2		8
85	Physical and Mechanical Properties, Effect of Thermal Annealing in Vacuum and in Air on Nanograin Sizes in Hard and Superhard Coatings Zr-Ti-Si-N/ A. Pogrebnjak, Ah. Mahmood, A. Demianenko, V. Baidak, V.Beresnev, A. Shypylenko, Vl. Grudnitskii, P. Zhukovski// PRZEGLĄD ELEKTROTECHNICZNY (Electrical Review) -2012. NR 7a.-P.315-318	1	6	
86	Effect of thermodiffusion nitriding on cytocompatibility of Ti-6Al-4V titanium alloy / I.M. Pohrelyuk, O.V. Tkachuk, R.V. Proskurnyak, N.M. Boiko, O.Yu. Kluchivska, R.S. Stoika // JOM. 2016. Vol. 68. P.1109-1115.	1	1	1
87	Effect of temperature on gas oxynitriding of Ti-6Al-4V alloy / I.Pohrelyuk, J.Morgiel, O.Tkachuk, K.Szymkiewicz // Surface and Coating Technology. 2019. Vol. 360. P.103–109.	1	1	2

1	2	3	4	5
88	Enhancement of the corrosion resistance of titanium alloys of the Ti-Al-Mo-V system by carbonitriding / Pohrelyuk, I.M., Fedirko, V.M., Yas'kiv, O.I., Tykhonovych, V.V., Proskurnyak, R.V. // <u>Materials Science</u> . - 2006. – Vol.42, No.4. - P.507-513.	1	1	1
89	Kinetics of Thermodiffusion Saturation of VT22 Titanium Alloy with Nitrogen Within the Temperature Range 800–950°C / V. M. Fedirko, I. M. Pohrelyuk, T. M. Kravchyshyn // <u>Materials Science</u> . – 2013. - Volume 49, Number 2. – P. 145 - 158.	1	1	1
90	Surface Hardening of VT1-0 Titanium in the Course of Thermodiffusion Saturation with Nitrogen Within the Temperature Range 650–750°C / I. M. Pohrelyuk, S. E. Sheikin, D. V. Efrosinin // <u>Materials Science</u> . – 2014. - Volume 50, Issue 1. – P. 70-79.	1	1	1
91	Electrochemical Behavior of Ti–6Al–4V Alloy in Ringer’s Solution After Oxynitriding / Tkachuk O., Pohrelyuk I., Proskurnyak R., Guspiel J., Beltowska-Lehman E., Morgiel J. // <u>Materials Science</u> . 2019. Vol. 54, Is. 4. P. 542–546.	1	1	
92	Corrosion Properties of Titanium Obtained by the Method of Powder Metallurgy / I. M. Pohrelyuk, O. V. Ovchynnykov, A. A. Skrebtsov, Kh. S. Shvachko, R. V. Proskurnyak, S. M. Lavrys’ // <u>Materials Science</u> . 2017. Vol. 52, Is. 2. P. 246–252.	1	1	
93	Regularities of Thermal Diffusion Saturation with Nitrogen Combined with Standard Heat Treatment of VT22 Titanium Alloy / I. M. Pohrelyuk, V. M. Fedirko, S. M. Lavrys’, T. M. Kravchyshyn // <u>Materials Science</u> . 2016. Vol. 52, Is. 6. P. 841–847.	1	1	3
94	Influence of regulated modification of nitride layer by oxygen on electrochemical behaviour of Ti-6Al-4V alloy in Ringer's solution / Pohrelyuk I, Tkachuk O, Proskurnyak R, Guspiel J, Beltowska-Lehman E, Morgiel J. // <u>Materials and Corrosion</u> . 2019. Vol. 70. P .2320 – 2325.	1		1
95	Carbo-oxidising of titanium by diffusion treatment in carbon-oxygen containing media / O. Yaskiv, I. Pohrelyuk, Dong Bok Lee, V.M. Fedirko, S.V.Huryn // <u>International Heat Treatment and Surface Engineering</u> . – June 2012. – Volume 6. – Number 2. – P. 72-79(8).	1		2
96	Effect of oxidation of nitride coatings on corrosion properties of Ti-6Al-4V alloy in 0.9% NaCl at 40	1		1

1	2	3	4	5
	°C / I. M. Pohrelyuk, O.V. Tkachuk, R.V. Proskurnyak // Central European Journal of Chemistry. - February 2014. - Volume 12, Issue 2. – P. 260-265.			
97	Corrosion behaviour of thermodiffusion coatings on titanium implants in simulated body fluids / Oleh Tkachuk, Roman Proskurnyak, Iryna Pohrelyuk, Viktor Fedirko // Solid State Phenomena. - 2015. – Vol.227. – P. 503 – 506.	1		1
98	Gas Nitriding and Oxidation of Ti-6Al-4V Alloy / Dong Bok Lee, Waheed Ali Abro, Kun Sang Lee, Muhammad Ali Abro, Iryna Pohrelyuk, and Oleh Yaskiv // Defect and Diffusion Forum. 2018. Vol. 382. P. 155-159.	1		1
99	Effect of Hydrogen Heat Treatment on Antifriction Properties of Nitrided VT6 Titanium-Based Alloy / I.N. Pohrelyuk, S.V. Skvortsova, V.N. Fedirko, A.G. Lukyanenko, V.S. Spektor, O.V. Tkachuk // Journal of Friction and Wear. 2016. Vol. 37, Is. 3. P. 274–281.	1		1
100	Anodic Behavior of Nitride-Coated Titanium Alloys in the Sulfate Acid Solution / I.N. Pohrelyuk, O.I. Yaskiv // Russian Journal of Non-Ferrous Metals. – 2008. - Vol. 49, No. 1. – P. 49–54.	1		2
101	Effect of the Starting Powder Mixture on the Porosity and Corrosion Properties of Sintered Titanium in Corrosive Media / I. M. Pogrelyuk, O. V. Ovchynnykov, A. A. Skrebtsov, Kh. S. Shvachko // Powder Metallurgy and Metal Ceramics. 2016. Vol. 55, Is. 7,. P. 445–453.	1		1
102	Conditions required for the formation of carboxide phase in the course of treatment of titanium from carbon-and-oxygen-containing media / Huryn, S.V., Pohrelyuk, I.M., Fedirko, V.M. // Materials Science. - 2005. – Vol.41, No.6. - P.743-748.	1		3
103	Dependence of the interaction of titanium with a carbon-nitrogen-containing medium on the saturation parameters / Yas'kiv, O.I., Pohrelyuk, I.M., Dyuh, I.V. // Materials Science. - 2005. – Vol.41, No.2. - P.71-75.	1		3
104	Laws of the thermodiffusion saturation of titanium alloys from amorphous boron in nitrogen / V. M. Fedirko, I. M. Pohrelyuk and O. V. Sambors'kyi // Materials Science. – 2011. - Volume 47, Number 6. – P. 790-798.	1		2
105	One- and Two-Component Diffusive Saturation of Titanium With Interstitial Elements / Ya. S. Matychak, V. M. Fedirko, I. M. Pohrelyuk, and O. V. Tkachuk // Materials Science. – 2014. - Volume 49, Issue 6. – P. 768-777.	1		

1	2	3	4	5
106	Increasing the Serviceability of Products From Single-Phase Titanium Alloys by Thermochemical Treatment / Fedirko, V., Luk'yanenko, A., Pohrelyuk, I., Trush, V. // Materials Performance and Characterization. 2017. Vol. 6, Is. 4. P. 642-655	1		3
107	Corrosion behaviour of Ti-6Al-4V alloy with nitride coatings in simulated body fluids at 36 °C and 40 °C / I. M. Pohrelyuk, O.V. Tkachuk, R.V. Proskurnyak // ISRN Corrosion. - 2013. - Volume 2013, Article ID 241830, 7 pages.	1		8
108	Diffusion of Nitrogen and Phase-Structural Transformations in Titanium / O. Tkachuk, Ya. Matychak, I. Pohrelyuk, V. Fedirko // Metallofiz. Noveishie Tekhnol. – 2014. - т. 36, № 8. - С. 1081–1090.	1		
109	Manokhin, A.S., Klimenko, S.A., Kopeikina, M.Yu., Klimenko, S.An., Roshchupkin, V.V., Lyakhovitskii, M.M. Tribology of cutting by tools equipped with cBN-based PSHM (2014) Journal of Superhard Materials, 36 (2), pp. 124-135.	1		1
110	Soroka, E.B., Klimenko, S.A., Kopeikina, M.Y. Ensuring the adhesion and cohesion strength of PVD (TiAl)N and TiN coatings (2011) Russian Metallurgy (Metally), 2011 (4), pp. 350-355.	1		3
111	Структура и свойства защитных покрытий и модифицированных слоев/ Азаренков Н.А., Береснев В.М., Погребняк А.Д.-Харьков: - ХНУ им. В.Н. Каразина, 2007.-576с.			37
112	Нанокристаллические и нанокompозитные покрытия, структура, свойства/ В.М.Береснев, А.Д. Погребняк, Н.А. Азаренков, В.И. Фареник, Г.В. Кирик// Физическая инженерия поверхности – 2007. – Т. 5, № 1-2. – С. 4-27.			30
113	Micro-and nanocomposite защитные покрытия на основе Ti- Al- N/Ni- Cr- B- Si- Fe dased protective coatings: Structure and properties структура и свойства/ А.Д. Погребняк, А.А. Дробышевская, В.М. Береснев, М.К. Кылышканов, Т.В. Кирик, С.Н. Дуб, Ф.Ф. Комаров, А.П. Шипиленко, Ю.Ж. Тулеушев // Technical Physics -2011-vol.56(7).-P.1023-1030,		12	17
114	Экологически безопасные вакуумно-плазменное оборудование и технологии нанесения покрытий/Береснев В.М. Перлов Д.Л., Федоренко А.И.-Харьков: ХИСПИ, 2003.-292с.			16
115	Влияние многокомпонентных и многослойных покрытий на процессы трения и износа/ В.М Береснев//Фізична інженерія поверхні, - 2004- Т.2, 34.-С.214-219			13

1	2	3	4	5
116	Структура, свойства и получение твердых нанокристаллических покрытий, осаждаемых несколькими способами/В. М. Береснев, А. Д. Погребняк, Н. А. Азаренков, Г. В. Кирик, Н. К. Ердубаева, В. В. Понарядов//Успехи физики металлов.-2007.-Т.8.,№3.-С.171-246.			15
117	Hard nanocomposite coatings, their structure and properties/ A.D. Pogrebnyak, V.M. Beresnev Books: Nanocomposites – new trends and developments, (edit. F.Ebrahimi) INTECH: Rijeka, Croatia.-2012.- P. 123-160		11	18
118	Structure and tribological behavior of layered TiN-BrAZh9-4 coatings obtained from metallic plasma flows/ V. M. Beresnev, A. D. Pogrebnyak, L. V. Malikov // Journal of Friction and Wear.- 2008-Vol.29(1).-P.35-38		3	
119	Нанокompозитные покрытия на основе нитридов переходных металлов/ А.А. Дробышевская, Г.А. Сердюк, Е.В. Фурсова, В.М. Береснев//Фізична інженерія поверхні.- 2008. – Т. 6, № 1-2. – С. 81-88			18
120	Наноматериалы,нанопокрyтия, нанотехнологии/ Азаренков Н.А., Береснев В.М., Погребняк А.Д., Турбин П.В., Маликов Л.В.- Х.: ХНУ имени В.Н. Каразина, 2009.-209с.			60
121	Наноструктурные покрытия и наноматериалы: Основы получения, Свойства. Области применения, Особенности современного наноструктурного направления и технологии/ Азаренков Н.А., Береснев В.М., Погребняк А.Д., Колесников Д.А.- М.: Книжный дом «ЛИБРОКОМ»,2012.-368с.			19
122	A.A. Voevodin, J.G. Jones, T.C. Back, J.S. Zabinski, I.I. Aksenov, V.E. Strel'nikij. Comparative study of wear resistant DLC and fullerene-like CN <sub>x</sub> coatings produced by pulsed laser and filtered cathodic arc depositions // Surface and Coatings Technology, 197, 2005, P. 116-125.			64
123	И.И. Аксенов, В.Е. Стрельницкий. Пленки алмазоподобного углерода // Харьков.: ИПП «Контраст», 2006, 344с.			22
124	В.В. Васильев, А.И. Калиниченко, В.Е. Стрельницкий. Влияние параметров ионного осаждения в импульсном режиме на характеристики алмазоподобного покрытия // Вісник ХНУ №1025, серія фізична, «Ядра, частинки, поля». 2012, вып. 4/56 /, с. 102 – 106.			4
125	В.В. Васильев, А.А. Лучанинов, В. Е. Стрельницкий. Нанесение алмазоподобных покрытий (АПП) на торцевые поверхности колец из карбида кремния для сухих газовых		1	2

1	2	3	4	5
	уплотнений для компрессоров высокого давления // ВАНТ, сер. «Вакуум, чистые материалы, сверхпроводники», №1 (113) 2018, с. 88-92.			
126	И.И. Аксенов, В.В. Васильев, А.А. Лучанинов, В.Е. Стрельницкий. Транспортировка вакуумно-дуговой плазмы в неоднородном магнитном поле // ВАНТ, Серия: Физика радиационных повреждений и радиационное материаловедение, 2005, №5 (88). С. 142-145.			
127	Васильев В.В., Стрельницький В.С.. Спосіб транспортування вакуумно-дугової катодної плазми із фільтруванням від мікрочасток і пристрій для його здійснення // ВИНАХІДНИК І РАЦІОНАЛІЗАТОР, 2016, №4, с. 3-7.			
128	V.V. Vasylyev, A.A. Luchaninov, V.E. Strel'nitskij Investigation of the abrasive durability of the multilayer diamond-like coatings for the ring-shaped dry gaseous seals made of SiC // Problems of Atomic Science and Technology, №1, 2019, с. 216-218.			
129	Influence at Rolling on Structure and Wear Resistance of a Titanium Alloy VT22 / Pohrelyuk I., Lavrysh S. // Metallofiz. Noveishie Tekhnol. 2016. Vol. 38, No. 6: 783—793.		2	
130	Chemico-thermal Treatment of Titanium Alloys – Nitriding / Iryna Pohrelyuk Viktor Fedirko Titanium // Alloys - Towards Achieving Enhanced Properties for Diversified Applications; Book edited by Prof. Dr. Akm Nurul Amin. – InTech, 2012. – P. 141 – 174.			18
131	Термодифузійне багатоконпонентне насичення титанових сплавів / Федірко В. М., Погрелюк І.М., Яськів О.І. – К.: Наук. думка, 2009. – 168 с.			16
132	Klimenko, S.A., Kopeikina, M.Y., Melniychuk, Y.A., Manokhin, A.S., THE WAYS TO INCREASE THE EFFICIENCY OF THE USE OF TOOLS WITH PCBN (2012)13th International Conference on Tools, MAR 27-28,Miskolc, HUNGARY			
133	Kopeikina, M.Y., Klimenko, S.A., Mel'niichuk, Y.A., Beresnev, V.M. Efficiency of cutting tools equipped with cBN-based polycrystalline superhard materials having vacuum-plasma coating (2008)JOURNAL OF SUPERHARD MATERIALS, 30, 5, pp.355–363.			16
134	Kutsay, O., Loginova, O., Gontar, A., Perevertailo, V., Zanevskyy, O., Katrusha, A., Novikov, N. (2008). Surface properties of amorphous carbon films. Diamond and related materials, 17(7-10), 1689-1691	2		10

1	2	3	4	5
135	Tkach, S.V., Kuzmenko, E.F., Tkach, V.N., Gontar, A.G., Shulzhenko, A.A., Bilyaeva, T.N. The effect of the structure of a two-layer cutting insert on its physicomachanical characteristics (2004) Innovative Superhard Materials and Sustainable Coatings for Advanced Manufacturing. NATO Advanced Research Workshop on Innovative Superhard Materials and Sustainable Coatings MAY 12-15, Kiev, UKRAINE			
136	Trakhtenberg, I.S., Yugov, V.A., Vladimirov, A.B., Rubstein, A.P., Gontar, A.G., Dub, S.N. Certification of hardened diamond like coatings (DLCs) mechanical properties (2004) Innovative Superhard Materials and Sustainable Coatings for Advanced Manufacturing. NATO Advanced Research Workshop on Innovative Superhard Materials and Sustainable Coatings, MAY 12-15, Kiev, UKRAINE, p.p. 429–436.			
137	Гонтарь А.Г., Куцай А.М., Горохов В.Ю., Старик С.П. Плазмохимическое осаждение алмазоподобных углеродных пленок // Синтез, спекание и свойства сверхтвердых материалов. К.: ИСМ им. В.Н. Бакуля, 2005. С. 108–112.			
138	С. П. Старик, О. Г. Гонтар, Б. А. Горштейн, В. Ю. Горохов, С. М. Дуб, О. М. Куцай Багатошарові просвітлюючі інтерференційні покриття з захисною алмазоподібною плівкою для діапазону довжин хвиль 8—12 мкм// Сверхтвердые материалы, 2006, № 2			
139	Gontar, A.G., Starik, S.P., Tkach, V.M., Gorochov, V.Y., Gorshtein, B.A., Mozkova, O.M. Application of diamond-like films for improving transparency in the (2004) NATO Advanced Research Workshop on Innovative Superhard Materials and Sustainable Coatings, MAY 12-15, Kiev, UKRAINE, p.p. 445–453.			
140	Vasin, A.V., Rusavsky, A.V., Kushnirenko, V.I., Nazarov, A.N., Lysenko, V.S., Starik, S.P., Kutsay, O.M., Semenov, A.V., Gontar, A.G., Dub, S.N., Puzikov, V.M. Comparative study of near stoichiometric a-SiC : H and a-SiC films: Effect of the bonded hydrogen (2004) Innovative Superhard Materials and Sustainable Coatings for Advanced Manufacturing. NATO Advanced Research Workshop on Innovative Superhard Materials and Sustainable, MAY 12-15, Kiev, UKRAINE, pp.. 419–428.			
141	Shilo, A.E., Kukhareno, S.A., Klimenko, N.G., Tkach, V.N., Gontar, A.G., Kuz'menko, E.F. The			



	effect of diffusion processes on the interaction in multicomponent silicate systems (2008) JOURNAL OF SUPERHARD MATERIALS, 30, 2, pp.. 105–114.			
<b>Загальна кількість цитувань</b>		<b>1438</b>	<b>1077</b>	<b>1058</b>

**h- індекс: Scopus – 24, Google Scholar – 22.**