Ilya Dyakov

List of Publications by Year
in descending order

20	235	1039406 9	1058022 14
papers	citations	h-index	g-index

20	20	20	69
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anode plasma electrolytic carburizing of commercial pure titanium. Surface and Coatings Technology, 2016, 307, 1303-1309.	2.2	24
2	Anodic Plasma Electrolytic Saturation of Steels by Carbon and Nitrogen. Advanced Materials Research, 0, 704, 37-42.	0.3	23
3	Influence of oxide layer on carbon diffusion during anode plasma electrolytic carburizing. Protection of Metals and Physical Chemistry of Surfaces, 2014, 50, 223-229.	0.3	23
4	Effect of compositions of active electrolytes on properties of anodic carburization. Protection of Metals and Physical Chemistry of Surfaces, 2010, 46, 715-720.	0.3	21
5	Surface Modification of Low-Carbon Steels by Plasma Electrolytic Nitrocarburising. Plasma Chemistry and Plasma Processing, 2016, 36, 1271-1286.	1.1	20
6	Plasma electrolytic modification of the VT1-0 titanium alloy surface. Journal of Surface Investigation, 2015, 9, 98-104.	0.1	19
7	Anode saturation with nitrogen and carbon in aqueous solutions of carbamide-bearing electrolytes. Metal Science and Heat Treatment, 2010, 52, 20-24.	0.2	17
8	Enhancement of Wear and Corrosion Resistance in Medium Carbon Steel by Plasma Electrolytic Nitriding and Polishing. Journal of Materials Engineering and Performance, 2019, 28, 5425-5432.	1.2	12
9	Wear mechanism of medium carbon steel after its plasma electrolytic nitrocarburising. Wear, 2020, 462-463, 203516.	1.5	12
10	Anode plasma electrolytic boronitrocarburising of low-carbon steel. Surface Engineering and Applied Electrochemistry, 2015, 51, 462-467.	0.3	10
11	Anodic electrolytic-plasma borocarburizing of low-carbon steel. Protection of Metals and Physical Chemistry of Surfaces, 2017, 53, 488-494.	0.3	9
12	Peculiarities of heat transfer at anodic plasma electrolytic treatment of cylindrical pieces. Surface Engineering and Applied Electrochemistry, 2014, 50, 346-355.	0.3	8
13	Increasing wear and corrosion resistance of tool steel by anodic plasma electrolytic nitriding. Surface and Coatings Technology, 2019, 362, 124-131.	2.2	8
14	Features of the distribution of heat fluxes in the anodeâ€“vapor-gas sheath system in anodic electrolytic heating. Journal of Engineering Physics and Thermophysics, 2008, 81, 1069-1075.	0.2	7
15	Increasing Wear Resistance of Titanium Alloys by Anode Plasma Electrolytic Saturation with Interstitial Elements. Journal of Materials Engineering and Performance, 2017, 26, 2404-2410.	1.2	6
16	Plasma electrolytic treatment of VT22 titanium alloy in electrolytes with carbon-containing compounds. Surface Engineering and Applied Electrochemistry, 2017, 53, 1-6.	0.3	5
17	Influence of hydrodynamical peculiarities of electrolyte flows on temperature of cylindrical workpiece by plasma electrolysis. Surface Engineering and Applied Electrochemistry, 2012, 48, 141-147.	0.3	4
18	Effect of Regimes of Anode Plasma Electrolytic Carburizing on Tribological Properties of Titanium Alloy VT 20. Materials Science Forum, 2016, 844, 133-140.	0.3	4

#	Article	IF	Citations
19	IMPROVEMENT OF CORROSION AND WEAR RESISTANCE OF 45 STEEL WITH ANODE PLASMA ELECTROLYTE NITRIDING. ChemChemTech, 2017, 60, 81.	0.1	3
20	Possibilities of combining plasma electrolytic nitriding and polishing of steel by varying the operating voltage. Journal of Physics: Conference Series, 2021, 1954, 012025.	0.3	0