Bogdan O Postolnyi

List of Publications by Year
in descending order

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24 papers	688 citations	567281 15 h-index	794594 19 g-index
25 all docs	25 docs citations	25 times ranked	519 citing authors

#	Article	IF	Citations
1	Superhard CrN/MoN coatings with multilayer architecture. Materials and Design, 2018, 153, 47-59.	7.0	94
2	The Critical Raw Materials in Cutting Tools for Machining Applications: A Review. Materials, 2020, 13, 1377.	2.9	89
3	Multilayer design of CrN/MoN protective coatings for enhanced hardness and toughness. Journal of Alloys and Compounds, 2017, 725, 1188-1198.	5.5	85
4	Powder Bed Fusion Additive Manufacturing Using Critical Raw Materials: A Review. Materials, 2021, 14, 909.	2.9	69
5	First-principles quantum molecular dynamics study of Ti_xZr_{1â^'x}N(111)/SiN_y heterostructures and comparison with experimental results. Science and Technology of Advanced Materials, 2014, 15, 025007.	6.1	47
6	Multilayered vacuum-arc nanocomposite TiN/ZrN coatings before and after annealing: Structure, properties, first-principles calculations. Materials Characterization, 2017, 134, 55-63.	4.4	46
7	Nanoscale architecture of (CrN/ZrN)/(Cr/Zr) nanocomposite coatings: Microstructure, composition, mechanical properties and first-principles calculations. Journal of Alloys and Compounds, 2020, 831, 154808.	5.5	34
8	Promising Methods for Corrosion Protection of Magnesium Alloys in the Case of Mg-Al, Mg-Mn-Ce and Mg-Zn-Zr: A Recent Progress Review. Metals, 2021, 11, 1133.	2.3	31
9	Critical Raw Materials Saving by Protective Coatings under Extreme Conditions: A Review of Last Trends in Alloys and Coatings for Aerospace Engine Applications. Materials, 2021, 14, 1656.	2.9	27
10	Structure and Properties of Multilayer Nanostructured Coatings TiN/MoN Depending on Deposition Conditions. Acta Physica Polonica A, 2014, 125, 1280-1283.	0.5	25
11	Comparison of tribological characteristics of nanostructured TiN, MoN, and TiN/MoN Arc-PVD coatings. Journal of Friction and Wear, 2014, 35, 374-382.	0.5	25
12	The effect of nanolayer thickness on the structure and properties of multilayer TiN/MoN coatings. Technical Physics Letters, 2014, 40, 215-218.	0.7	24
13	Composition, structure and tribotechnical properties of TiN, MoN single-layer and TiN/MoN multilayer coatings. Journal of Superhard Materials, 2015, 37, 27-38.	1.2	19
14	Structure and properties of (Zr-Ti-Cr-Nb)N multielement superhard coatings. Journal of Superhard Materials, 2015, 37, 101-111.	1.2	16
15	Properties and structure of oxidized coatings deposited onto Al-Cu and Al-Mg alloys. Technical Physics, 2012, 57, 840-848.	0.7	15
16	Fabrication and Research of Superhard (Zr-Ti-Cr-Nb)N Coatings. Acta Physica Polonica A, 2015, 128, 867-871.	0.5	10
17	Investigation of Nanoscale TiN/MoN Multilayered Systems, Fabricated Using Arc Evaporation. Acta Physica Polonica A, 2015, 128, 836-841.	0.5	8
18	Structural analysis of multilayer metal nitride films CrN/MoN using electron backscatter diffraction (EBSD). , 2016, , .		7

#	Article	IF	Citations
19	Multilayer and high-entropy alloy-based protective coatings for solving the issue of critical raw materials in the aerospace industry. IOP Conference Series: Materials Science and Engineering, 2021, 1024, 012009.	0.6	7
20	Control of Structural and Magnetic Properties of Polycrystalline Co2FeGe Films via Deposition and Annealing Temperatures. Nanomaterials, 2021, 11, 1229.	4.1	5
21	Predicting the Properties of the Refractory High-Entropy Alloys for Additive Manufacturing-Based Fabrication and Mechatronic Applications. , 2020, , .		5
22	Properties of superhard (Zr-Ti-Cr-Nb)N nanocoatings. , 2014, , .		0
23	Phase composition and crystallite size study of multilayered transition metal films based on molybdenum and chromium nitrides. , 2017, , .		0
24	Structure and elemental composition of multilayered nanocomposite TiN/ZrN coatings before and after annealing in air. , 2017, , .		0