Sergei Grigoriev

List of Publications by Year
in descending order

280	5,544	44042	123376
papers	citations	48 h-index	61 g-index

283	283	283	1458
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Definition of brightness temperature and restoration of true temperature in laser cladding using infrared camera. Surface and Coatings Technology, 2013, 220, 244-247.	2.2	99
2	Control of parameters of the cutting process on the basis of diagnostics of the machine tool and workpiece. Measurement Techniques, 2012, 55, 555-558.	0.2	97
3	On productivity of laser additive manufacturing. Journal of Materials Processing Technology, 2018, 261, 213-232.	3.1	96
4	Diagnostic Systems as Basis for Technological Improvement. Procedia CIRP, 2012, 1, 599-604.	1.0	95
5	Development of residual cutting tool life prediction algorithm by processing on CNC machine tool. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 790-796.	0.5	90
6	The Control Platform for Decomposition and Synthesis of Specialized CNC Systems. Procedia CIRP, 2016, 41, 858-863.	1.0	89
7	Study of cracking mechanisms in multi-layered composite nano-structured coatings. Wear, 2017, 378-379, 43-57.	1.5	87
8	Measurement problems in technological shaping processes. Measurement Techniques, 2011, 54, 744-749.	0.2	85
9	Research and Development of a Cross-platform CNC Kernel for Multi-axis Machine Tool. Procedia CIRP, 2014, 14, 517-522.	1.0	82
10	Delamination and longitudinal cracking in multi-layered composite nano-structured coatings and their influence on cutting tool life. Wear, 2017, 390-391, 209-219.	1.5	79
11	Role of the thermal factor in the wear mechanism of ceramic tools. Part 2: Microlevel. Journal of Friction and Wear, 2015, 36, 40-44.	0.1	78
12	Effect of adhesion and the wear-resistant layer thickness ratio on mechanical and performance properties of ZrN - (Zr,Al,Si)N coatings. Surface and Coatings Technology, 2019, 357, 218-234.	2.2	78
13	Development of Wear-resistant Complex for High-speed Steel Tool when Using Process of Combined Cathodic Vacuum Arc Deposition. Procedia CIRP, 2013, 9, 8-12.	1.0	76
14	The role of the thermal factor in the wear mechanism of ceramic tools: Part 1. Macrolevel. Journal of Friction and Wear, 2014, 35, 505-510.	0.1	75
15	Effect of graphene addition on the mechanical and electrical properties of Al 2 O 3 -SiCw ceramics. Journal of the European Ceramic Society, 2017, 37, 2473-2479.	2.8	75
16	Investigation of wear dynamics for cutting tools with multilayer composite nanostructured coatings in turning constructional steel. Wear, 2019, 420-421, 17-37.	1.5	75
17	Nano-scale Multilayered Composite Coatings for Cutting Tools Operating under Heavy Cutting Conditions. Procedia CIRP, 2014, 14, 239-244.	1.0	70
18	Improving the Efficiency of the Cutting Tool Made of Ceramic when Machining Hardened Steel by Applying Nano-Dispersed Multi-Layered Coatings . Key Engineering Materials, 0, 581, 68-73.	0.4	67

#	Article	IF	Citations
19	Tribological characteristics of (TiZrHfVNbTa)N coatings applied using the vacuum arc deposition method. Journal of Friction and Wear, 2014, 35, 359-364.	0.1	67
20	Optical Monitoring in Laser Cladding of Ti6Al4V. Journal of Thermal Spray Technology, 2012, 21, 1357-1362.	1.6	66
21	Comparative analysis of cutting properties and nature of wear of carbide cutting tools with multi-layered nano-structured and gradient coatings produced by using of various deposition methods. International Journal of Advanced Manufacturing Technology, 2017, 90, 3421-3435.	1.5	66
22	Working efficiency of cutting tools with multilayer nano-structured Ti-TiCN-(Ti,Al)CN and Ti-TiCN-(Ti,Al,Cr)CN coatings: Analysis of cutting properties, wear mechanism and diffusion processes. Surface and Coatings Technology, 2017, 332, 198-213.	2.2	65
23	Investigation of wear and diffusion processes on rake faces of carbide inserts with Ti-TiN-(Ti,Al,Si)N composite nanostructured coating. Wear, 2018, 416-417, 72-80.	1.5	65
24	Modification of the structure and properties of high-speed steel by combined vacuum-plasma treatment. Metal Science and Heat Treatment, 2012, 54, 8-12.	0.2	64
25	Broad beam source of fast atoms produced as a result of charge exchange collisions of ions accelerated between two plasmas. Instruments and Experimental Techniques, 2009, 52, 602-608.	0.1	63
26	Cutting Tools Made of Layered Composite Ceramics with Nano-Scale Multilayered Coatings. Procedia CIRP, 2012, 1, 301-306.	1.0	63
27	Glow discharge with electrostatic confinement of electrons in a chamber bombarded by fast electrons. Plasma Physics Reports, 2011, 37, 628-637.	0.3	62
28	Broad beam sources of fast molecules with segmented cold cathodes and emissive grids. Instruments and Experimental Techniques, 2012, 55, 122-130.	0.1	62
29	Investigation of multicomponent nanolayer coatings based on nitrides of Cr, Mo, Zr, Nb, and Al. Surface and Coatings Technology, 2020, 401, 126258.	2.2	62
30	Investigation of the influence of the thickness of nanolayers in wear-resistant layers of Ti-TiN-(Ti,Cr,Al)N coating on destruction in the cutting and wear of carbide cutting tools. Surface and Coatings Technology, 2020, 385, 125402.	2.2	62
31	Comprehensive Optical Monitoring of Selective Laser Melting. Journal of Laser Micro Nanoengineering, 0, , .	0.4	62
32	Broad fast neutral molecule beam sources for industrial-scale beam-assisted deposition. Surface and Coatings Technology, 2002, 156, 44-49.	2.2	61
33	Structure and mechanical properties of Wâ€“Seâ€“C/diamond-like carbon and Wâ€“Se/diamond-like carbon bi-layer coatings prepared by pulsed laser deposition. Thin Solid Films, 2012, 520, 6476-6483.	0.8	61
34	Vacuum-arc multilayer nanostructured TiN/Ti coatings: structure, stress state, properties. Metal Science and Heat Treatment, 2012, 54, 28-33.	0.2	61
35	Nano-scale multi-layered coatings for improved efficiency of ceramic cutting tools. International Journal of Advanced Manufacturing Technology, 2017, 90, 27-43.	1.5	61
36	Pulsed laser deposition of composite Moâ€“Seâ€“Niâ€“C coatings using standard and shadow mask configuration. Surface and Coatings Technology, 2012, 206, 5046-5054.	2.2	60

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37	Characteristics of a fast neutral atom source with electrons injected into the source through its emissive grid from the vacuum chamber. Instruments and Experimental Techniques, 2012, 55, 288-293.	0.1	60
38	Experimental and numerical study of the chemical composition of WSe thin films obtained by pulsed laser deposition in vacuum and in a buffer gas atmosphere. Applied Surface Science, 2012, 258, 7000-7007.	3.1	59
39	Filling the vacuum chamber of a technological system with homogeneous plasma using a stationary glow discharge. Plasma Physics Reports, 2009, 35, 1058-1067.	0.3	58
40	Contemporary state and outlook for development of metrological assurance in the machine-building industry. Measurement Techniques, 2013, 55, 1311-1315.	0.2	58
41	Velocity of the Particles Accelerated by a Cold Spray Micronozzle: Experimental Measurements and Numerical Simulation. Journal of Thermal Spray Technology, 2013, 22, 75-80.	1.6	58
42	Influence of a shape of single track on deposition efficiency of 316L stainless steel powder in cold spray. Surface and Coatings Technology, 2017, 309, 951-958.	2.2	58
43	An ARM-based Multi-channel CNC Solution for Multi-tasking Turning and Milling Machines. Procedia CIRP, 2016, 46, 525-528.	1.0	57
44	Scalable Open Cross-Platform Kernel of PCNC System for Multi-Axis Machine Tool. Procedia CIRP, 2012, 1, 238-243.	1.0	56
45	Influence of the nanostructure of Ti-TiN-(Ti,Al,Cr)N multilayer composite coating on tribological properties and cutting tool life. Tribology International, 2020, 150, 106388.	3.0	56
46	A compact vapor source of conductive target material sputtered by 3-keV ions at 0.05-Pa pressure. Instruments and Experimental Techniques, 2009, 52, 731-737.	0.1	54
47	Development and Research of Environmentally Friendly Dry Technological Machining System with Compensation of Physical Function of Cutting Fluids. Procedia CIRP, 2013, 7, 311-316.	1.0	54
48	The Role of Thin-Film Vacuum-Plasma Coatings and Their Influence on the Efficiency of Ceramic Cutting Inserts. Coatings, 2018, 8, 287.	1.2	54
49	Properties of (Cr,Al,Si)N-(DLC-Si) composite coatings deposited on a cutting ceramic substrate. Ceramics International, 2020, 46, 18241-18255.	2.3	53
50	Development of DLC-Coated Solid SiAlON/TiN Ceramic End Mills for Nickel Alloy Machining: Problems and Prospects. Coatings, 2021, 11, 532.	1.2	53
51	Crack-free selective laser melting of silica glass: single beads and monolayers on the substrate of the same material. International Journal of Advanced Manufacturing Technology, 2016, 85, 1461-1469.	1.5	50
52	Effect of high-voltage pulses on the structure and properties of titanium nitride vacuum-arc coatings. Metal Science and Heat Treatment, 2012, 54, 195-203.	0.2	46
53	Investigation of wear mechanisms for the rake face of a cutting tool with a multilayer composite nanostructured Crâ€“CrN-(Ti,Cr,Al,Si)N coating in high-speed steel turning. Wear, 2019, 438-439, 203069.	1.5	46
54	Selective laser melting of fused silica: Interdependent heat transfer and powder consolidation. International Journal of Heat and Mass Transfer, 2017, 104, 665-674.	2.5	38

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55	DLC-coating Application to Improve the Durability of Ceramic Tools. Journal of Materials Engineering and Performance, 2019, 28, 4415-4426.	1.2	38
56	WEDM as a Replacement for Grinding in Machining Ceramic Al2O3-TiC Cutting Inserts. Metals, 2021, 11, 882.	1.0	38
57	Specific features of the structure and properties of arc-PVD coatings depending on the spatial arrangement of the sample in the chamber. Vacuum, 2022, 200, 111047.	1.6	38
58	Electrical discharge machining of oxide and nitride ceramics: A review. Materials and Design, 2021, 209, 109965.	3.3	37
59	Cutting Tools Nitriding in Plasma Produced by a Fast Neutral Molecule Beam. Japanese Journal of Applied Physics, 2011, 50, 08JG04.	0.8	37
60	The Effect of TiC Additive on Mechanical and Electrical Properties of Al2O3 Ceramic. Applied Sciences (Switzerland), 2018, 8, 2385.	1.3	35
61	Electrical discharge machining of ceramic nanocomposites: sublimation phenomena and adaptive control. Heliyon, 2019, 5, e02629.	1.4	34
62	Investigation of the influence of the features of the deposition process on the structural features of microparticles in PVD coatings. Vacuum, 2022, 202, 111144.	1.6	34
63	Electrical Discharge Machining of Oxide Nanocomposite: Nanomodification of Surface and Subsurface Layers. Journal of Manufacturing and Materials Processing, 2020, 4, 96.	1.0	33
64	Cutting Tools Nitriding in Plasma Produced by a Fast Neutral Molecule Beam. Japanese Journal of Applied Physics, 2011, 50, 08JG04.	0.8	32
65	An Approach to Creation of Terminal Clients in CNC System. , 2018, , .		31
66	Shadow masked pulsed laser deposition of WSex films: Experiment and modeling. Applied Surface Science, 2013, 282, 607-614.	3.1	29
67	Pulsed laser deposition of nanocomposite MoSe /Mo thin-film catalysts for hydrogen evolution reaction. Thin Solid Films, 2015, 592, 175-181.	0.8	29
68	Use of laser ablation for formation of discontinuous (discrete) wear-resistant coatings formed on solid carbide cutting tool by electron beam alloying and vacuum-arc deposition. Mechanics and Industry, 2016, 17, 720.	0.5	28
69	Parameters of the Gas-Powder Supersonic Jet in Cold Spraying Using a Mask. Journal of Thermal Spray Technology, 2013, 22, 551-556.	1.6	27
70	Possibilities of Manufacturing Products from Cermet Compositions Using Nanoscale Powders by Additive Manufacturing Methods. Materials, 2019, 12, 3425.	1.3	27
71	Influence of powder injection point position on efficiency of powder preheating in cold spray: Numerical study. Surface and Coatings Technology, 2014, 242, 226-231.	2.2	26
72	Surface Defects Formation in Grinding of Silicon Nitride Ceramics. Applied Mechanics and Materials, 2015, 752-753, 402-406.	0.2	26

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73	Investigation of the tribological properties of Ti-TiN-(Ti,Al,Nb,Zr)N composite coating and its efficiency in increasing wear resistance of metal cutting tools. Tribology International, 2021, 164, 107236.	3.0	25
74	Tribological properties of gradient Moâ€“Seâ€“Niâ€“C thin films obtained by pulsed laser deposition in standard and shadow mask configurations. Thin Solid Films, 2014, 556, 35-43.	0.8	23
75	Parametric analysis of SLM using comprehensive optical monitoring. Rapid Prototyping Journal, 2016, 22, 40-50.	1.6	23
76	Investigation of the properties of the Cr,Mo-(Cr,Mo,Zr,Nb)N-(Cr,Mo,Zr,Nb,Al)N multilayer composite multicomponent coating with nanostructured wear-resistant layer. Wear, 2021, 468-469, 203597.	1.5	23
77	Investigation of Technological Parameters for Machining Toroidal Section of Solid Ceramic End Mills. IOP Conference Series: Materials Science and Engineering, 2020, 971, 022065.	0.3	23
78	Creep-Feed Grinding: An Overview of Kinematics, Parameters and Effects on Process Efficiency. Strojniski Vestnik/Journal of Mechanical Engineering, 2014, 60, 213-220.	0.6	22
79	Investigation of tribological and functional properties of Cr,Mo-(Cr,Mo)N-(Cr,Mo,Al)N multilayer composite coating. Tribology International, 2021, 155, 106804.	3.0	22
80	Solidification behaviour during laser microcladding of Alâ€“Si alloys. Surface and Coatings Technology, 2015, 268, 303-309.	2.2	21
81	The formation of a hybrid structure from tungsten selenide and oxide plates for a hydrogen-evolution electrocatalyst. Technical Physics Letters, 2016, 42, 555-558.	0.2	21
82	Investigation of performance and cutting properties of carbide tool with nanostructured multilayer Zr-ZrN-(Zr0.5,Cr0.3,Al0.2)N coating. International Journal of Advanced Manufacturing Technology, 2019, 102, 2953-2965.	1.5	21
83	Properties of tungsten oxide thin films formed by ion-plasma and laser deposition methods for MOSiC-based hydrogen sensors. Semiconductors, 2012, 46, 401-409.	0.2	20
84	Materials, properties, manufacturing methods and cutting performance of innovative ceramic cutting tools â˚ a review. Manufacturing Review, 2019, 6, 19.	0.9	19
85	Wire Tool Electrode Behavior and Wear under Discharge Pulses. Technologies, 2020, 8, 49.	3.0	19
86	On the mechanism of encapsulated particle formation during pulsed laser deposition of WSe x thin-film coatings. Technical Physics Letters, 2013, 39, 312-315.	0.2	18
87	Features of Al2O3â€“TiC-Ceramic Specimen Edge Morphology Formation During Diamond Grinding. Refractories and Industrial Ceramics, 2017, 58, 319-323.	0.2	18
88	Specific features of ion-initiated processes during pulsed laser deposition of MoSe2 coatings in pulsed electric fields. Technical Physics Letters, 2012, 38, 683-686.	0.2	17
89	The problems of metrological support for the preparation of production in machine construction. Measurement Techniques, 2012, 55, 526-529.	0.2	16
90	Laser post annealing of cold-sprayed Al/aluminaâ€“Ni composite coatings. Surface and Coatings Technology, 2015, 271, 265-268.	2.2	16

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91	Possibilities of the Technology of Additive Production for Making Complex-Shape Parts and Depositing Functional Coatings from Metallic Powders. Metal Science and Heat Treatment, 2016, 57, 579-584.	0.2	16
92	Modelling Complex Production Processes in Aerospace Industry based on Dimensional Analysis. Procedia CIRP, 2013, 7, 473-478.	1.0	15
93	Study of wire tool-electrode behavior during electrical discharge machining by vibroacoustic monitoring. Mechanics and Industry, 2016, 17, 717.	0.5	15
94	Basics of computer engineering surface layer of polished ceramics. Novye Ogneupory (new) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T	0.1	15
95	A new method for modeling edges of a toroidal cutting surface of solid ceramic end mills. , 2020, , .		15
96	Physicomechanical Nature of Acoustic Emission Preceding Wire Breakage during Wire Electrical Discharge Machining (WEDM) of Advanced Cutting Tool Materials. Metals, 2021, 11, 1865.	1.0	15
97	Beam Shaping in Laser Powder Bed Fusion: PÃ©clet Number and Dynamic Simulation. Metals, 2022, 12, 722.	1.0	15
98	Research of Tool Durability in Surface Plastic Deformation by Wide Burnishing of Cast Iron without Metalworking Fluids. Key Engineering Materials, 2017, 746, 120-125.	0.4	14
99	Effect of Cavitation Erosion Wear, Vibration Tumbling, and Heat Treatment on Additively Manufactured Surface Quality and Properties. Metals, 2020, 10, 1540.	1.0	14
100	Study of the triboengineering characteristics of ultradispersed composite powder materials. Journal of Friction and Wear, 2011, 32, 164-166.	0.1	13
101	Dependence of mechanical and tribological properties of diamond-like carbon coatings on laser deposition conditions and alloying by metals. Journal of Friction and Wear, 2012, 33, 253-259.	0.1	13
102	Tool Life and Wear Mechanism of Coated Si₃N₄ Ceramic Tools in Turning Grey Cast Iron. Key Engineering Materials, 2013, 581, 14-17.	0.4	13
103	Technological Capital: A Criterion of Innovative Development and an Object of Transfer in the Modern Economy. Procedia CIRP, 2014, 20, 56-61.	1.0	13
104	Effect of Thermal Loading on Stresses in Defective Surface Layer of Ceramics. Applied Mechanics and Materials, 2016, 827, 189-192.	0.2	13
105	Technological Parameters Forming the Surface Texture in Hyper Productive Surface Plastic Deformation Processing. Key Engineering Materials, 0, 746, 114-119.	0.4	13
106	Correlation of Diamond Grinding Regimes with Si3N4-Ceramic Surface Quality. Refractories and Industrial Ceramics, 2017, 58, 78-81.	0.2	13
107	Influence of DLC Coatings Deposited by PECVD Technology on the Wear Resistance of Carbide End Mills and Surface Roughness of AlCuMg2 and 41Cr4 Workpieces. Coatings, 2020, 10, 1038.	1.2	13
108	High-precision method for determining the optimal trajectory of movement of a conical grinding wheel relative to the helical grooves of solid ceramic mills. , 2020, , .		13

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109	Methodology of formation of multi-layered coatings for carbide cutting tools. Mechanics and Industry, 2016, 17, 706.	0.5	12
110	Focused beams of fast neutral atoms in glow discharge plasma. Journal of Applied Physics, 2017, 121, .	1.1	12
111	Wire Electrical Discharge Machining, Mechanical and Tribological Performance of TiN Reinforced Multiscale SiAlON Ceramic Composites Fabricated by Spark Plasma Sintering. Applied Sciences (Switzerland), 2021, 11, 657.	1.3	12
112	A new approach for controlling of curved cutting edges of toroid-shaped end-milling cutter. , 2021, , .		12
113	Information model of production and logistics systems of machine-building enterprises as the basis for the development and maintenance of their digital twins. IOP Conference Series: Materials Science and Engineering, 2020, 971, 032094.	0.3	12
114	Deformation behavior of root dentin under SjÃ¶gren's syndrome. Materials Letters, 2011, 65, 2435-2438.	1.3	11
115	Gas discharge source of metal vapor and fast gas atoms. Instruments and Experimental Techniques, 2013, 56, 358-364.	0.1	11
116	The Friction Force Determination of Large-Sized Composite Rods in Pultrusion. Applied Composite Materials, 2014, 21, 651-659.	1.3	11
117	Effect produced by thickness of nanolayers of multilayer composite wear-resistant coating on tool life of metal-cutting tool in turning of steel AISI 321. Procedia CIRP, 2018, 77, 549-552.	1.0	11
118	Design of Toroid-Shaped Solid Ceramic End Mill. EPJ Web of Conferences, 2019, 224, 05001.	0.1	11
119	Investigation of wear mechanisms of multilayer nanostructured wear-resistant coatings during turning of steel. Part 2: Diffusion, oxidation processes and cracking in Ti-TiN-(Ti,Cr,Mo,Al)N coating. Wear, 2021, 486-487, 204096.	1.5	11
120	Advanced Method of NC Programming for 5-Axis Machining. Procedia CIRP, 2012, 1, 102-107.	1.0	10
121	Role of electrostatic and magnetic electron confinement in a hollow-cathode glow discharge in a nonuniform magnetic field. Plasma Physics Reports, 2015, 41, 188-197.	0.3	10
122	Applications of Multi-Level Method of Stress-Strain State Analysis in Ceramic Tools Design. Applied Mechanics and Materials, 0, 827, 173-176.	0.2	10
123	Production Process Planning for Preparing Si3N4-Ceramic Objects Taking Account of Edge Defectiveness. Refractories and Industrial Ceramics, 2018, 58, 562-565.	0.2	10
124	Influence of thickness of multilayer composite nano-structured coating Ti-TiN-(Ti,Al,Cr)N on tool life of metal-cutting tool. Procedia CIRP, 2018, 77, 545-548.	1.0	10
125	Influence of the Thickness of Multilayer Composite Nano-Structured Coating Tiâ€“TiNâ€“(Ti,Al,Si)N on the Tool Life of Metal-Cutting Tools and the Nature of Wear. Coatings, 2019, 9, 730.	1.2	10
126	Influence of Postprocessing on Wear Resistance of Aerospace Steel Parts Produced by Laser Powder Bed Fusion. Technologies, 2020, 8, 73.	3.0	10

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127	Investigation of MAO Coatings Characteristics on Titanium Products Obtained by EBM Method Using Additive Manufacturing. Materials, 2022, 15, 4535.	1.3	10
128	Application of laser surface engineering to solve tribological problems. Journal of Friction and Wear, 2014, 35, 470-476.	0.1	9
129	Effect of energy fluence and Ti/W co-deposition on the structural, mechanical and tribological characteristics of diamond-like carbon coatings obtained by pulsed Nd:YAG laser deposition on a steel substrate. Surface and Coatings Technology, 2014, 259, 415-425.	2.2	9
130	Surface hardening by means of plasma immersion ion implantation and nitriding in glow discharge with electrostatic confinement of electrons. Mechanics and Industry, 2015, 16, 711.	0.5	9
131	Metalanguage of Normal Forms of Knowledge. Cybernetics and Systems Analysis, 2016, 52, 839-848.	0.4	9
132	Formation of thin catalytic WSe x layer on graphite electrodes for activation of hydrogen evolution reaction in aqueous acid. Inorganic Materials: Applied Research, 2016, 7, 285-291.	0.1	9
133	Correlation of Diamond Grinding Regime with Surface Condition of Ceramic Based on Zirconium Dioxide. Refractories and Industrial Ceramics, 2017, 57, 625-630.	0.2	9
134	Correlation of Diamond Grinding Regimes with SiSiC-Ceramic Surface Condition. Refractories and Industrial Ceramics, 2017, 58, 214-219.	0.2	9
135	Investigation of the Influence of Microdroplets on the Coatings Nanolayer Structure. Coatings, 2020, 10, 1204.	1.2	9
136	Development of a Model of Crack Propagation in Multilayer Hard Coatings under Conditions of Stochastic Force Impact. Materials, 2021, 14, 260.	1.3	9
137	The Role of the Activator Additives Introduction Method in the Cold Sintering Process of ZnO Ceramics: CSP/SPS Approach. Materials, 2021, 14, 6680.	1.3	9
138	Influence of Mo content on the properties of multilayer nanostructured coatings based on the (Mo,Cr,Al)N system.. Tribology International, 2022, 174, 107741.	3.0	9
139	Features of micro-and nanostructures of Au â€“ Ni alloys obtained on nickel due to different modes of pulse laser alloying. Metal Science and Heat Treatment, 2012, 54, 34-40.	0.2	8
140	Dynamic Model of Electrical Discharge Machining and Algorithm of Extreme Control Through Acoustic Signal. EPJ Web of Conferences, 2019, 224, 05002.	0.1	8
141	Surface Hardening of Machine Parts Using Nitriding and TiN Coating Deposition in Glow Discharge. Machines, 2020, 8, 42.	1.2	8
142	Improving simulation adequacy of production processes by jointly applying the planned and situational reservation logic of jobs in the machine parts manufacturing batch. IOP Conference Series: Materials Science and Engineering, 2020, 971, 032093.	0.3	8
143	Investigation of the properties of Ti-TiN-(Ti,Al,Nb,Zr)N composite coating and its efficiency in increasing wear resistance of metal cutting tools. Surface and Coatings Technology, 2021, 421, 127432.	2.2	8
144	The Effectiveness of Diamond-like Carbon a-C:H:Si Coatings in Increasing the Cutting Capability of Radius End Mills When Machining Heat-Resistant Nickel Alloys. Coatings, 2022, 12, 206.	1.2	8

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145	Evaluation of Mechanical and Electrical Performance of Aging Resistance ZTA Composites Reinforced with Graphene Oxide Consolidated by SPS. Materials, 2022, 15, 2419.	1.3	8
146	Processing and Characterization of Spark Plasma Sintered SiC-TiB2-TiC Powders. Materials, 2022, 15, 1946.	1.3	8
147	A study of the quality of preforms from iron-base powders produced by forming combined with sintering by electric current pulses. Metal Science and Heat Treatment, 2012, 54, 17-21.	0.2	7
148	Microcladding of hypereutectic Alâ€“Si alloys: technological aspects and structure features. International Journal of Cast Metals Research, 2014, 27, 357-361.	0.5	7
149	Tool material surface alloying by wide-aperture low-energy high-current electron beam treatment before wear-resistant coating. Mechanics and Industry, 2015, 16, 708.	0.5	7
150	Deposition of wear-resistant coatings using a combined source of metal atoms and fast gas molecules. Mechanics and Industry, 2015, 16, 705.	0.5	7
151	Chemical composition, structure and light reflectance of Wâ€“Se and Wâ€“Seâ€“C films prepared by pulsed laser deposition in rare and reactive buffer gases. Vacuum, 2015, 119, 19-29.	1.6	7
152	Study of cutting properties and wear pattern of carbide tools with comprehensive chemical-thermal treatment and nano-structured/gradient wear-resistant coatings. Mechanics and Industry, 2016, 17, 702.	0.5	7
153	Multilayer composite nanoscale coatings as a method to increase reliability and tool life of cutting tools made of mixed ceramic Al₂O₃-TiC. Mechanics and Industry, 2016, 17, 704.	0.5	7
154	Optimization of Parameters of Laser Surfacing of Alloys of the Al â€“ Si System. Metal Science and Heat Treatment, 2016, 57, 589-595.	0.2	7
155	Research of Tool Durability in Surface Plastic Deformation Processing by Burnishing of Steel Without Metalworking Fluids. IOP Conference Series: Earth and Environmental Science, 2017, 66, 012013.	0.2	7
156	Local search gradient algorithm based on functional voxel modeling. Programming and Computer Software, 2017, 43, 300-306.	0.5	7
157	Products pre-treatment and beam-assisted deposition of magnetron sputtered coatings using a closed cylindrical grid inside a planetary rotation system. Surface and Coatings Technology, 2017, 325, 327-332.	2.2	7
158	Evaluation of Ceramic Tool Reliability with a Limited Number of Tests Based on Established Wear Criteria. Refractories and Industrial Ceramics, 2018, 59, 386-390.	0.2	7
159	Technological Provision of the Quality of Ring Edges of Silicon-Carbide Friction Couples for the End Seals of the Pumps. Refractories and Industrial Ceramics, 2018, 58, 647-651.	0.2	7
160	The Effect of Electromechanical Treatment on Structure and Properties of Plasma-Sprayed Fe-30Cr Coating. Journal of Thermal Spray Technology, 2019, 28, 883-892.	1.6	7
161	An Analytic Definition of the Border Polymerization Line for Axisymmetric Composite Rods. Applied Composite Materials, 2013, 20, 1055-1064.	1.3	6
162	Simulation of thermal fields using different types of wide burnishing. IOP Conference Series: Materials Science and Engineering, 2015, 91, 012034.	0.3	6

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163	Influence of the synthesis conditions of gold nanoparticles on the structure and architectonics of dipeptide composites. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	6
164	Vibroacoustic Monitoring of the Major Parameters of Electrical Discharge Machining. Measurement Techniques, 2017, 59, 1228-1233.	0.2	6
165	Optical Method For Monitoring Tool Control For Green Burnishing With Using Of Algorithms With Adaptive Settings. IOP Conference Series: Earth and Environmental Science, 2017, 66, 012020.	0.2	6
166	Testing of External Cylindrical Surfaces of Car Parts after Wide Burnishing Processing. Key Engineering Materials, 0, 746, 126-131.	0.4	6
167	Application of Pulsed Laser Deposition in Reactive Gaseous Media to Fabricate an Effective Hybrid MoS x /WO y Catalyst for the Reaction of Hydrogen Evolution. Inorganic Materials: Applied Research, 2018, 9, 297-304.	0.1	6
168	Properties of Cold Spray Coatings for Restoration of Worn-Out Contact Wires. Coatings, 2021, 11, 626.	1.2	6
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