Piotr Konarski

List of Publications by Year in descending order

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82	972	17 h-index	28
papers	citations		g-index
83	83	83	951 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Effect of nitrogen ion implantation on the life time of WC-Co tools used in particleboard milling. Wood Material Science and Engineering, 2022, 17, 521-532.	1.1	11
2	EVALUATION OF THE PHASE STABILITY, MICROSTRUCTURE, AND DEFECTS IN HIGH-ENTROPY CERAMICS AFTER HIGH-ENERGY ION IMPLANTATION. High Temperature Material Processes, 2022, 26, 77-93.	0.2	2
3	Microstructure and tribomechanical properties of multilayer TiZrN/TiSiN composite coatings with nanoscale architecture by cathodic-arc evaporation. Journal of Materials Science, 2021, 56, 5067-5081.	1.7	9
4	Formation of Si-Rich Interfaces by Radiation-Induced Diffusion and Microsegregation in CrN/ZrN Nanolayer Coating. ACS Applied Materials & Samp; Interfaces, 2021, 13, 16928-16938.	4.0	21
5	Comparative measurements and analysis of the mechanical and electrical properties of Ti-Zr-C nanocomposite: Role of stoichiometry. Measurement: Journal of the International Measurement Confederation, 2021, 176, 109223.	2.5	18
6	Wear Resistance Improvement of Cemented Tungsten Carbide Deep-Hole Drills after Ion Implantation. Materials, 2021, 14, 239.	1.3	23
7	Phase Stability and Defect Structure of (TiZrHfNbV)N Nitride Coatings under Xe14+ 200 MeV Ion Irradiation., 2021,,.		0
8	Application of â€~Storing Matter' technique in SIMS depth profile analysis. Nuclear Instruments & Methods in Physics Research B, 2019, 450, 153-156.	0.6	2
9	Modification of magnetron sputter deposition of nc-WC/a-C(:H) coatings with an additional RF discharge. Diamond and Related Materials, 2019, 98, 107509.	1.8	9
10	Antibacterial Effect of Au Implantation in Ductile Nanocomposite Multilayer (TiAlSiY)N/CrN Coatings. ACS Applied Materials & Camp; Interfaces, 2019, 11, 48540-48550.	4.0	36
11	A new type of (TiZrNbTaHf)N/MoN nanocomposite coating: Microstructure and properties depending on energy of incident ions. Composites Part B: Engineering, 2018, 146, 132-144.	5.9	60
12	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. Journal of Alloys and Compounds, 2018, 767, 483-495.	2.8	35
13	Superhard CrN/MoN coatings with multilayer architecture. Materials and Design, 2018, 153, 47-59.	3.3	94
14	Experimental and theoretical studies of the physicochemical and mechanical properties of multi-layered TiN/SiC films: Temperature effects on the nanocomposite structure. Composites Part B: Engineering, 2018, 142, 85-94.	5.9	98
15	Characteristic STATE of substrate and coatings interface formed by Impulse Plasma Deposition method. Thin Solid Films, 2018, 663, 25-30.	0.8	3
16	Effects of ultra-shallow ion implantation from RF plasma onto electrical properties of 4H-SiC MIS structures with SiOx/HfOx and SiOxNy/HfOx double-gate dielectric stacks. Microelectronic Engineering, 2017, 178, 116-121.	1.1	2
17	Influence of the bilayer thickness of nanostructured multilayer MoN/CrN coating on its microstructure, hardness, and elemental composition. Physics of the Solid State, 2017, 59, 1798-1802.	0.2	9
18	Multilayered vacuum-arc nanocomposite TiN/ZrN coatings before and after annealing: Structure, properties, first-principles calculations. Materials Characterization, 2017, 134, 55-63.	1.9	46

#	Article	IF	Citations
19	Effect of DC magnetron sputtering parameters on the structure, composition and tribological properties of tantalum diboride films. , 2017, , .		О
20	Structure and elemental composition of multilayered nanocomposite TiN/ZrN coatings before and after annealing in air. , 2017, , .		0
21	Structure and properties of nanoscale MoN/CrN multilayered coatings. , 2017, , .		O
22	Effect of Hf addition and deposition condition on the structure and properties of the Ti-Hf-Si-N coatings. , 2017, , .		1
23	Hydrogen Reduction in MEP Niobium Studied by Secondary Ion Mass Spectrometry (SIMS). Metals, 2017, 7, 442.	1.0	3
24	Two-dimensional elemental mapping using glow discharge mass spectrometry. Journal of Analytical Atomic Spectrometry, 2016, 31, 2192-2197.	1.6	4
25	Nanostructured multielement (TiHfZrNbVTa)N coatings before and after implantation of N+ ions (1018cmâ^'2): Their structure and mechanical properties. Nuclear Instruments & Methods in Physics Research B, 2016, 385, 74-83.	0.6	20
26	Electron-beam pulse annealed Ti-implanted GaP. Journal of Applied Physics, 2016, 120, 085103.	1.1	8
27	Metal oxide collectors for storing matter technique applied in secondary ion mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 2016, 371, 199-204.	0.6	1
28	Hydrogen content influence on tribological properties of nc-WC/a-C:H coatings. Diamond and Related Materials, 2016, 67, 16-25.	1.8	27
29	Selection of Processing Parameters for the Conversion Coatings on High-Strength Aluminum Alloys by Cyclic Voltammetry. Materials Science, 2015, 50, 634-645.	0.3	0
30	Chlorine-enhanced thermal oxides growth and significant trap density reduction at SiO2/SiC interface by incorporation of phosphorus. Thin Solid Films, 2015, 591, 86-89.	0.8	1
31	Depth Profile Analysis of Phosphorus Implanted SiC Structures. Acta Physica Polonica A, 2015, 128, 864-867.	0.2	2
32	The Effect of Phosphorus Incorporation into SiO_2/4H-SiC (0001) Interface on Electrophysical Properties of MOS Structure. Acta Physica Polonica A, 2014, 126, 1100-1103.	0.2	2
33	Micropump for Generation and Control of Vacuum Inside Miniature Devices. Journal of Microelectromechanical Systems, 2014, 23, 50-55.	1.7	12
34	Changes of tribological properties of Inconel 600 after ion implantation process. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2014, 62, 827-833.	0.8	4
35	Development of characterization procedure of particulate matter pollution collected in immediate vicinity of urban residents. Surface and Interface Analysis, 2014, 46, 389-392.	0.8	0
36	The distribution analysis for elements in depth of nitride coating based on high-entropy Ti-Hf-V-Nb-Zr alloy. , 2014, , .		0

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37	Storing matter technique performed in the analytical chamber of a quadrupole SIMS analyser. Surface and Interface Analysis, 2014, 46, 360-363.	0.8	2
38	Annealed Ni/Ti/SiC structure analysed by SIMS and GDMS. Journal of Surface Investigation, 2013, 7, 1221-1224.	0.1	1
39	Spectral analysis of nanosize forms of carbon synthesized by pulsed intense ion beams. Vacuum, 2013, 89, 118-121.	1.6	11
40	Core–shell structure of fly ash particles ―SIMS depth profile analysis. Surface and Interface Analysis, 2013, 45, 592-595.	0.8	6
41	Ion implanted inconel alloy – SIMS and GDMS depth profile analysis. Surface and Interface Analysis, 2013, 45, 494-497.	0.8	7
42	Plasma deposition of thin layers containing titanium and barium with the use of DBD. EPJ Applied Physics, 2013, 61, 24325.	0.3	1
43	Generation and Control of Vacuum Inside Miniature Devices. Procedia Engineering, 2012, 47, 1354-1357.	1.2	4
44	SIMS studies of titanium biomaterial hydrogenation after magnetoelectropolishing. Surface and Coatings Technology, 2012, 206, 4027-4031.	2.2	16
45	Improvement of high temperature oxidation resistance of AISI 316L stainless steel by incorporation of Ce–La elements using intense pulsed plasma beams. Surface and Coatings Technology, 2011, 206, 854-858.	2.2	8
46	Stoichiometry, phase composition, and properties of superhard nanostructured Ti-Hf-Si-N coatings obtained by deposition from high-frequency vacuum-arc discharge. Technical Physics Letters, 2011, 37, 636-639.	0.2	16
47	Effects of vacuum heating in AISI 410 and AISI 321 stainless steels' surface layer revealed by SIMS/GDMS depth profile analysis. Surface and Interface Analysis, 2011, 43, 217-220.	0.8	2
48	Cold plasma cleaning of copper and aluminum tested by SIMS depth profile analysis. Surface and Interface Analysis, 2011, 43, 612-617.	0.8	2
49	SIMS depth profile analysis of particles collected in an urban environment. Surface and Interface Analysis, 2011, 43, 470-474.	0.8	3
50	SIMS analysis of hydrogen content in near surface layers of AISI 316L SS after electrolytic polishing under different conditions. Surface and Coatings Technology, 2011, 205, 4228-4236.	2.2	36
51	Surface characteristics of glass fibres covered with an aluminum layer after a chemical modification process using secondary ion mass spectrometry (SIMS) and atomic force microscopy (AFM). International Journal of Mass Spectrometry, 2009, 286, 11-16.	0.7	3
52	Fluorine-doped SiO2 and fluorocarbon low-k dielectrics investigated by SIMS. Applied Surface Science, 2008, 255, 1334-1337.	3.1	4
53	Application of r.f. plasma ultrashallow nitrogen ion implantation for pedestal oxynitride layer formation. Vacuum, 2008, 82, 1020-1028.	1.6	1
54	SIMS and GDMS depth profile analysis of hard coatings. Vacuum, 2008, 82, 1133-1136.	1.6	18

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55	lon mass interferences and matrix effects on SIMS depth profiling of thin Ti/Si multilayer films induced by hydrogen, carbon and oxygen contaminations. International Journal of Mass Spectrometry, 2007, 263, 54-58.	0.7	17
56	Quadrupole-based glow discharge mass spectrometer: Design and results compared to secondary ion mass spectrometry analyses. Vacuum, 2007, 81, 1323-1327.	1.6	10
57	Critical currents density and current loops range in MgB2 thin layers obtained by the technique of ions implantation followed by pulsed plasma transient annealing. Cryogenics, 2007, 47, 267-271.	0.9	3
58	Si-oxide/Si and Si-oxynitride/Si interfaces analysed by ultra-low energy SIMS. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2200-2204.	0.8	1
59	RuO2/SiO2/Si and SiO2/porous Si/Si interfaces analysed by SIMS. Applied Surface Science, 2006, 252, 7058-7061.	3.1	11
60	SIMS characterisation of superconductive MgB2 layers prepared by ion implantation and pulsed plasma treatment. Applied Surface Science, 2006, 252, 7078-7081.	3.1	2
61	Comparison of urban and rural particulate air pollution characteristics obtained by SIMS and SSMS. Applied Surface Science, 2006, 252, 7010-7013.	3.1	19
62	Thermogravimetric investigation ofwastes from electrical and electronic equipment (WEEE). Journal of Thermal Analysis and Calorimetry, 2006, 86, 137-140.	2.0	21
63	Formation of Pedestal Oxynitride Layer by Extremely Shallow Nitrogen Implantation in Planar R.F. Plasma Reactor. ECS Transactions, 2006, 1, 407-417.	0.3	2
64	Ion beam shadowing effects in SIMS depth profile analysis of MBE-grown nanostructures. Vacuum, 2005, 78, 291-295.	1.6	2
65	Ion beam analysis of urban aerosol micro and nanoparticles compared with environmentally related children diseases in two Polish towns. Vacuum, 2005, 78, 297-301.	1.6	3
66	SIMS investigation of nitride coatings. Vacuum, 2005, 78, 545-550.	1.6	10
67	Morphology of micro- and nanoparticles emitted by copper plants in Western Poland. Thin Solid Films, 2004, 459, 86-89.	0.8	5
68	Core–shell morphology of welding fume micro- and nanoparticles. Vacuum, 2003, 70, 385-389.	1.6	27
69	SIMS depth profiling of working environment nanoparticles. Applied Surface Science, 2003, 203-204, 757-761.	3.1	12
70	B4C/Mo/Si and Ta2O5/Ta nanostructures analysed by ultra-low energy argon ion beams. Applied Surface Science, 2003, 203-204, 354-358.	3.1	27
71	Morphology of working environment microparticles. Vacuum, 2001, 63, 679-683.	1.6	14
72	Ion sputtering of microparticles in SIMS depth profile analysis. Vacuum, 2001, 63, 685-689.	1.6	9

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73	Structural Properties of InSbBi and InSbAsBi Thin Films Prepared by the Flash-Evaporation Method. Crystal Research and Technology, 2001, 36, 1155-1171.	0.6	15
74	Influence of Al adsorption on In and Ga thermal desorption from InP and GaAs surfaces heated under As4 flux. Thin Solid Films, 1997, 306, 248-252.	0.8	0
75	Surface roughening at the ZnTe/GaAs interface in stationary and sample rotation SIMS depth profiling. Vacuum, 1996, 47, 1111-1115.	1.6	9
76	lon Etching Effects Occurring in Secondary Ion Mass Spectrometry Depth profiling of InGaAs/InP and InGaAs/AlAs/InP MBE Grown Heterostructures. Acta Physica Polonica A, 1996, 90, 869-874.	0.2	1
77	Morphology of the interface in the MBE-grown heterostructures analysed by SIMS depth profiling. Thin Solid Films, 1995, 267, 114-120.	0.8	2
78	Ultrahigh vacuum manipulator for sample rotation in secondary ion mass spectrometry depth profile analysis. Review of Scientific Instruments, 1995, 66, 4713-4715.	0.6	8
79	Bakeable duoplasmatron ion gun for SIMS microanalysis. Review of Scientific Instruments, 1992, 63, 2397-2399.	0.6	11
80	Medium-energy ion scattering study of the initial stage of oxidation of Fe(001). Physical Review B, 1989, 39, 5713-5718.	1.1	22
81	Dielectric Studies of the Ordering Due to an External DC Electric Field in Nematic 4,4′-di- <i>n</i> -hexyloxyazoxybenzene. Molecular Crystals and Liquid Crystals, 1978, 47, 105-114.	0.9	1
82	Influence of Phosphorus Implantation on Electrical Properties of Al/SiO ₂ /4H-SiC MOS Structure. Materials Science Forum, 0, 821-823, 496-499.	0.3	4