Jyh-Wei Lee

List of Publications by Year
in descending order

177	4,515	94269 37	168136 53
papers	citations	h-index	g-index

180	180	180	3480
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thin film metallic glasses: Unique properties and potential applications. Thin Solid Films, 2012, 520, 5097-5122.	0.8	301
2	The nanoindentation characteristics of Cu6Sn5, Cu3Sn, and Ni3Sn4 intermetallic compounds in the solder bump. Journal of Electronic Materials, 2004, 33, 1103-1110.	1.0	117
3	Rapid thermal annealing effects on the structural and optical properties of ZnO films deposited on Si substrates. Journal of Luminescence, 2009, 129, 148-152.	1.5	95
4	The effects of pulse frequency and substrate bias to the mechanical properties of CrN coatings deposited by pulsed DC magnetron sputtering. Thin Solid Films, 2006, 494, 161-167.	0.8	85
5	The Human Dorsal Premotor Cortex Generates On-Line Error Corrections during Sensorimotor Adaptation. Journal of Neuroscience, 2006, 26, 3330-3334.	1.7	80
6	Microstructure, corrosion and tribological behaviors of TiAlSiN coatings deposited by cathodic arc plasma deposition. Thin Solid Films, 2009, 517, 5231-5236.	0.8	77
7	Oxidation behavior of Si-doped nanocomposite CrAlSiN coatings. Surface and Coatings Technology, 2010, 205, 1189-1194.	2.2	76
8	Influence of bias voltage on the hardness and toughness of CrAlN coatings via magnetron sputtering. Surface and Coatings Technology, 2012, 206, 5103-5107.	2.2	70
9	The mechanical properties evaluation of the CrN coatings deposited by the pulsed DC reactive magnetron sputtering. Surface and Coatings Technology, 2006, 200, 3330-3335.	2.2	69
10	Plasma electrolytic oxidation coatings on AZ31 magnesium alloys with Si3N4 nanoparticle additives. Surface and Coatings Technology, 2017, 332, 358-367.	2.2	64
11	Evaluation of microstructures and mechanical properties of chromized steels with different carbon contents. Surface and Coatings Technology, 2004, 177-178, 525-531.	2.2	61
12	Mechanical properties study of a magnetron-sputtered Zr-based thin film metallic glass. Surface and Coatings Technology, 2013, 215, 312-321.	2.2	60
13	Thermal and corrosion properties of V-Nb-Mo-Ta-W and V-Nb-Mo-Ta-W-Cr-B high entropy alloy coatings. Surface and Coatings Technology, 2019, 375, 802-809.	2.2	59
14	Corrosion resistance and microstructural evaluation of the chromized coating process in a dual phase Feî—¸Mnî—¸Alî—¸Cr alloy. Surface and Coatings Technology, 2002, 153, 59-66.	2.2	58
15	Corrosion behaviors of low carbon steel, SUS310 and Feâ€“Mnâ€“Al alloy with hot-dipped aluminum coatings in NaCl-induced hot corrosion. Surface and Coatings Technology, 2003, 163-164, 37-43.	2.2	58
16	The structural and optical properties of ZnO/Si thin films by RTA treatments. Applied Surface Science, 2008, 254, 1578-1582.	3.1	53
17	Microstructural characterization, mechanical property and corrosion behavior of VNbMoTaWAl refractory high entropy alloy coatings: Effect of Al content. Surface and Coatings Technology, 2020, 403, 126351.	2.2	51
18	The effect of Cu content on the microstructures, mechanical and antibacterial properties of Crâ€“Cuâ€“N nanocomposite coatings deposited by pulsed DC reactive magnetron sputtering. Surface and Coatings Technology, 2007, 202, 854-860.	2.2	50

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19	Antimicrobial characteristics in Cu-containing Zr-based thin film metallic glass. Surface and Coatings Technology, 2014, 259, 87-93.	2.2	49
20	Mechanical property and corrosion resistance evaluation of AZ31 magnesium alloys by plasma electrolytic oxidation treatment: Effect of MoS2 particle addition. Surface and Coatings Technology, 2018, 350, 813-822.	2.2	49
21	Oxidation behavior of sputtered CrN/AlN multilayer coatings during heat treatment. Surface and Coatings Technology, 2007, 201, 5138-5142.	2.2	48
22	Mechanical and tribological properties evaluation of cathodic arc deposited CrN/ZrN multilayer coatings. Surface and Coatings Technology, 2011, 206, 1744-1752.	2.2	46
23	Antimicrobial properties of Zrâ€“Cuâ€“Alâ€“Ag thin film metallic glass. Thin Solid Films, 2014, 561, 98-101.	0.8	46
24	Fabrication of TiZrNbTaFeN high-entropy alloys coatings by HiPIMS: Effect of nitrogen flow rate on the microstructural development, mechanical and tribological performance, electrical properties and corrosion characteristics. Journal of Alloys and Compounds, 2021, 873, 159605.	2.8	46
25	A study on the microstructure and cyclic oxidation behavior of the pack aluminized Hastelloy X at 1100ÂÂ°C. Surface and Coatings Technology, 2006, 201, 3867-3871.	2.2	45
26	Study on the characteristics of electrical discharge machining using dielectric with surfactant. Journal of Materials Processing Technology, 2009, 209, 3783-3789.	3.1	45
27	Microstructural development in the oxidation-induced phase transformation of Fe-Al-Cr-Mn-C alloys. Journal of Materials Science, 1988, 23, 2649-2660.	1.7	44
28	Self-lubricating CrAlN/VN multilayer coatings at room temperature. Applied Surface Science, 2013, 279, 189-196.	3.1	44
29	Improvement of tribological performance of CrN coating via multilayering with VN. Surface and Coatings Technology, 2013, 231, 357-363.	2.2	43
30	Mechanical strengthening in self-lubricating CrAlN/VN multilayer coatings for improved high-temperature tribological characteristics. Surface and Coatings Technology, 2016, 303, 12-17.	2.2	43
31	High temperature electrical properties and oxidation resistance of V-Nb-Mo-Ta-W high entropy alloy thin films. Surface and Coatings Technology, 2019, 375, 854-863.	2.2	43
32	Cyclic oxidation behavior of a cobalt aluminide coating on Co-base superalloy AMS 5608. Surface and Coatings Technology, 2005, 200, 1225-1230.	2.2	42
33	Effects of carbon content on the microstructure and mechanical property of cathodic arc evaporation deposited CrCN thin films. Surface and Coatings Technology, 2013, 231, 482-486.	2.2	42
34	A study on the microstructures and mechanical properties of pulsed DC reactive magnetron sputtered Crâ€“Siâ€“N nanocomposite coatings. Surface and Coatings Technology, 2007, 202, 831-836.	2.2	40
35	Fabrication and tribological behavior of sputtering TaN coatings. Surface and Coatings Technology, 2014, 259, 123-128.	2.2	39
36	Effects of substrate bias frequencies on the characteristics of chromium nitride coatings deposited by pulsed DC reactive magnetron sputtering. Surface and Coatings Technology, 2008, 203, 721-725.	2.2	38

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37	Oxidation resistance of nanocomposite CrAlSiN under long-time heat treatment. Surface and Coatings Technology, 2011, 206, 1571-1576.	2.2	38
38	Effects of duty cycle and pulse frequency on the fabrication of AlCrN thin films deposited by high power impulse magnetron sputtering. Thin Solid Films, 2013, 549, 281-291.	0.8	38
39	Microbial community analysis of anaerobic bio-corrosion in different ORP profiles. International Biodeterioration and Biodegradation, 2014, 95, 93-101.	1.9	38
40	Fatigue property improvements of Tiâ€“6Alâ€“4V by thin film coatings of metallic glass and TiN: a comparison study. Thin Solid Films, 2014, 561, 33-37.	0.8	36
41	Microstructure control in TiAlN/SiNx multilayers with appropriate thickness ratios for improvement of hardness and anti-corrosion characteristics. Vacuum, 2013, 87, 195-199.	1.6	35
42	Modification of structure and property in Zr-based thin film metallic glass via processing temperature control. Thin Solid Films, 2014, 561, 38-42.	0.8	34
43	Microstructure and mechanical properties evaluation of molybdenum disulfide-titania nanocomposite coatings grown by plasma electrolytic oxidation. Surface and Coatings Technology, 2016, 303, 68-77.	2.2	34
44	The microstructure and mechanical properties evaluation of CrTiAlSiN coatings: Effects of silicon content. Thin Solid Films, 2017, 638, 220-229.	0.8	34
45	Mechanical properties of gradient and multilayered TiAlSiN hard coatings. Thin Solid Films, 2009, 517, 4934-4937.	0.8	33
46	Microstructure, mechanical and anti-corrosion property evaluation of iron-based thin film metallic glasses. Surface and Coatings Technology, 2014, 260, 46-55.	2.2	32
47	Development of Si-modified CrAlSiN nanocomposite coating for anti-wear application in extreme environment. Surface and Coatings Technology, 2015, 284, 273-280.	2.2	32
48	Helium/Argon-Generated Cold Atmospheric Plasma Facilitates Cutaneous Wound Healing. Frontiers in Bioengineering and Biotechnology, 2020, 8, 683.	2.0	32
49	Corrosion performance of plasma electrolytic oxidation grown oxide coating on pure aluminum: effect of borax concentration. Journal of Materials Research and Technology, 2020, 9, 8766-8779.	2.6	32
50	The fabrication and property evaluation of Zrâ€“Tiâ€“Bâ€“Si thin film metallic glass materials. Surface and Coatings Technology, 2014, 259, 115-122.	2.2	31
51	Toward hard yet tough CrAlSiN coatings via compositional grading. Surface and Coatings Technology, 2013, 231, 346-352.	2.2	30
52	Characterization and haemocompatibility of fluorinated DLC and Si interlayer on Ti6Al4V. Surface and Coatings Technology, 2013, 231, 418-422.	2.2	30
53	Influence of Si contents on tribological characteristics of CrAlSiN nanocomposite coatings. Thin Solid Films, 2015, 584, 46-51.	0.8	30
54	Structural and optical properties of ZnO nanopowder prepared by microwave-assisted synthesis. Journal of Luminescence, 2010, 130, 1756-1759.	1.5	29

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55	Microstructure and mechanical property evaluation of pulsed DC magnetron sputtered Crâ€“B and Crâ€“Bâ€“N films. Surface and Coatings Technology, 2011, 206, 1711-1719.	2.2	29
56	Characterization of mechanical properties and adhesion of Taâ€“Zrâ€“Cuâ€“Alâ€“Ag thin film metallic glasses. Surface and Coatings Technology, 2013, 231, 332-336.	2.2	29
57	Cyclic oxidation behavior and microstructure evolution of aluminized, Pt-aluminized high velocity oxygen fuel sprayed CoNiCrAlY coatings. Thin Solid Films, 2009, 517, 5253-5258.	0.8	28
58	Effects of duty cycle and electrolyte concentration on the microstructure and biocompatibility of plasma electrolytic oxidation treatment on zirconium metal. Thin Solid Films, 2015, 596, 87-93.	0.8	28
59	Microstructure, mechanical properties and corrosion performance of Fe44Cr15Mo14Co7C10B5Si5 thin film metallic glass deposited by DC magnetron sputtering. Journal of Non-Crystalline Solids, 2020, 527, 119718.	1.5	28
60	Nanomechanical properties evaluation of chromium nitride films by nanoindentation and nanowear techniques. Surface and Coatings Technology, 2004, 188-189, 655-661.	2.2	26
61	Electrochemical characterization of Zr-based thin film metallic glass in hydrochloric aqueous solution. Thin Solid Films, 2013, 529, 338-341.	0.8	26
62	Effect of nitrogen-argon flow ratio on the microstructural and mechanical properties of AlSiN thin films prepared by high power impulse magnetron sputtering. Surface and Coatings Technology, 2017, 320, 138-145.	2.2	26
63	Superimposed high power impulse and middle frequency magnetron sputtering: Role of pulse duration and average power of middle frequency. Surface and Coatings Technology, 2018, 352, 680-689.	2.2	26
64	Mechanical property evaluation of cathodic arc plasma-deposited CrN thin films on Feâ€“Mnâ€“Alâ€“C alloys. Surface and Coatings Technology, 2003, 168, 223-230.	2.2	25
65	Annealing and oxidation study of Moâ€“Ru hard coatings on tungsten carbide. Thin Solid Films, 2009, 518, 194-200.	0.8	25
66	Microstructures and mechanical properties evaluation of TiAlN/CrSiN multilayered thin films with different bilayer periods. Surface and Coatings Technology, 2010, 205, 1438-1443.	2.2	25
67	The effect of Cr/Zr chemical composition ratios on the mechanical properties of CrN/ZrN multilayered coatings deposited by cathodic arc deposition system. Surface and Coatings Technology, 2013, 231, 247-252.	2.2	25
68	Chemical inertness of Crâ€“Wâ€“N coatings in glass molding. Thin Solid Films, 2015, 593, 102-109.	0.8	25
69	Structural and optical properties of zirconia thin films deposited by reactive high-power impulse magnetron sputtering. Thin Solid Films, 2014, 570, 404-411.	0.8	24
70	The effects of substrate bias, substrate temperature, and pulse frequency on the microstructures of chromium nitride coatings deposited by pulsed direct current reactive magnetron sputtering. Journal of Electronic Materials, 2005, 34, 1484-1492.	1.0	23
71	The effect of microstructure and composition on mechanical properties in thick-layered nanocomposite Tiâ€“Siâ€“Câ€“N coatings. Surface and Coatings Technology, 2010, 205, 1460-1464.	2.2	23
72	Preparation and annealing study of CrTaN coatings on WC-Co. Surface and Coatings Technology, 2011, 206, 1640-1647.	2.2	23

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73	Influence of high power impulse magnetron sputtering pulse parameters on the properties of aluminum nitride coatings. Surface and Coatings Technology, 2014, 259, 219-231.	2.2	23
74	Towards hard yet self-lubricious CrAlSiN coatings. Journal of Alloys and Compounds, 2015, 618, 132-138.	2.8	23
75	Biocompatibility and mechanical property evaluation of Zr-Ti-Fe based ternary thin film metallic glasses. Surface and Coatings Technology, 2017, 320, 512-519.	2.2	23
76	A study on morphology control and optical properties of ZnO nanorods synthesized by microwave heating. Journal of Luminescence, 2012, 132, 226-230.	1.5	22
77	Toughening effect of Ni on nc-CrAlN/a-SiNx hard nanocomposite. Applied Surface Science, 2013, 265, 418-423.	3.1	22
78	The influence of deposition parameters on the structure and properties of aluminum nitride coatings deposited by high power impulse magnetron sputtering. Thin Solid Films, 2014, 572, 161-168.	0.8	22
79	Parameters Affecting the Antimicrobial Properties of Cold Atmospheric Plasma Jet. Journal of Clinical Medicine, 2019, 8, 1930.	1.0	22
80	The study of nanoscratch and nanomachining on hard multilayer thin films using atomic force microscope. Scanning, 2012, 34, 51-59.	0.7	21
81	Mechanical properties of fluorinated DLC and Si interlayer on a Ti biomedical alloy. Thin Solid Films, 2013, 528, 136-142.	0.8	21
82	Effects of processing parameters on the adhesion and corrosion resistance of oxide coatings grown by plasma electrolytic oxidation on AZ31 magnesium alloys. Journal of Materials Research and Technology, 2021, 10, 1355-1371.	2.6	21
83	Tribological and mechanical properties of HFCVD diamond-coated WC-Co substrates with different Cr interlayers. Surface and Coatings Technology, 2008, 203, 704-708.	2.2	20
84	Effects of tungsten contents on the microstructure, mechanical and anticorrosion properties of Zrâ€“Wâ€“Ti thin film metallic glasses. Thin Solid Films, 2015, 584, 253-256.	0.8	20
85	Influences of target poisoning on the mechanical properties of TiCrBN thin films grown by a superimposed high power impulse and medium-frequency magnetron sputtering. Surface and Coatings Technology, 2017, 332, 86-95.	2.2	20
86	Characterization of plasma polymerized organosilicon thin films deposited on 316L stainless steel. Thin Solid Films, 2018, 660, 637-645.	0.8	20
87	Comparisons of plasma-sprayed and sputtering Al0.5CoCrFeNi2 high-entropy alloy coatings. Surface and Coatings Technology, 2020, 403, 126411.	2.2	20
88	Microstructure and mechanical properties of pulsed DC magnetron sputtered nanocomposite Crâ€“Cuâ€“N thin films. Surface and Coatings Technology, 2006, 201, 4078-4082.	2.2	19
89	Novel TiO2 thin films/glass fiber photocatalytic reactors in the removal of bioaerosols. Surface and Coatings Technology, 2010, 205, S341-S344.	2.2	19
90	Influence of bilayer period and thickness ratio on the mechanical and tribological properties of CrSiN/TiAlN multilayer coatings. Surface and Coatings Technology, 2011, 206, 1886-1892.	2.2	19

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91	Tribological properties evaluation of AISI 1095 steel chromized at different temperatures. Surface and Coatings Technology, 2004, 188-189, 550-555.	2.2	18
92	Photocatalytic characteristics of TiO2 nanotubes with different microstructures prepared under different pulse anodizations. Thin Solid Films, 2011, 519, 3334-3339.	0.8	18
93	Nano-scratching and nano-machining in different environments on Cr2N/Cu multilayer thin films. Thin Solid Films, 2011, 519, 4992-4996.	0.8	18
94	Fatigue properties improvement of high-strength aluminum alloy by using a ZrCu-based metallic glass thin film coating. Thin Solid Films, 2014, 561, 28-32.	0.8	18
95	Effects of Processing Parameters on the Corrosion Performance of Plasma Electrolytic Oxidation Grown Oxide on Commercially Pure Aluminum. Metals, 2020, 10, 394.	1.0	18
96	Influence of Nitrogen Partial Pressure and Substrate Bias on the Mechanical Properties of VN Coatings. Procedia Engineering, 2012, 36, 217-225.	1.2	17
97	Study on surface characteristics using phosphorous dielectric on wire electrical discharge machining of polycrystalline silicon. International Journal of Advanced Manufacturing Technology, 2013, 69, 71-80.	1.5	17
98	The microstructure and mechanical properties of nitrogen and boron contained ZrCuAlNi thin film metallic glass composites. Surface and Coatings Technology, 2013, 237, 276-283.	2.2	17
99	Fabrication of tungsten nitride thin films by superimposed HiPIMS and MF system: Effects of nitrogen flow rate. Surface and Coatings Technology, 2020, 393, 125743.	2.2	17
100	Mechanical and thermal behaviors of nitrogen-doped Zr-Cu-Al-Ag-Taâ€“â€“An alternative class of thin film metallic glass. Applied Physics Letters, 2012, 101, .	1.5	16
101	Thermal cyclic oxidation performance of plasma sprayed zirconia thermal barrier coatings with modified high velocity oxygen fuel sprayed bond coatings. Surface and Coatings Technology, 2013, 228, S11-S14.	2.2	16
102	Effects of silicon contents on the characteristics of Zrâ€“Tiâ€“Siâ€“W thin film metallic glasses. Thin Solid Films, 2016, 618, 28-35.	0.8	16
103	Efficient induction of functional ameloblasts from human keratinocyte stem cells. Stem Cell Research and Therapy, 2018, 9, 126.	2.4	16
104	Coating Cutting Blades with Thin-Film Metallic Glass to Enhance Sharpness. Scientific Reports, 2019, 9, 15558.	1.6	16
105	Preparation and investigation of diamond-incorporated copper coatings on a brass substrate by composite electrodeposition. Surface and Coatings Technology, 2020, 386, 125508.	2.2	16
106	Fabrication of Cr-Si-N coatings using a hybrid high-power impulse and radio-frequency magnetron co-sputtering: The role of Si incorporation and duty cycle. Surface and Coatings Technology, 2020, 403, 126378.	2.2	16
107	The effect of the substrate bias voltage on the mechanical and corrosion properties of chromium carbide thin films by filtered cathodic vacuum arc deposition. Surface and Coatings Technology, 2006, 200, 2679-2685.	2.2	15
108	Characteristics of Cr2N/Cu multilayered thin films with different bilayer thickness. Surface and Coatings Technology, 2009, 204, 941-946.	2.2	15

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109	Microstructure, mechanical and electrochemical properties evaluation of pulsed DC reactive magnetron sputtered nanostructured Crâ€“Zrâ€“N and Crâ€“Zrâ€“Siâ€“N thin films. Surface and Coatings Technology, 2010, 205, 1331-1338.	2.2	15
110	Title is missing!. Journal of Materials Science, 2003, 38, 1679-1687.	1.7	14
111	Tribological properties of Crâ€“Siâ€“N nanocomposite film adherent silicon under various environments. Thin Solid Films, 2010, 518, 7509-7514.	0.8	14
112	Applying composition control to improve the mechanical and thermal properties of Zrâ€“Cuâ€“Niâ€“Al thin film metallic glass by magnetron DC sputtering. Surface and Coatings Technology, 2015, 278, 132-137.	2.2	14
113	Structure and mechanical property evaluation of Crâ€“Tiâ€“Bâ€“N coatings. Thin Solid Films, 2013, 544, 380-385.	0.8	13
114	Microstructure and mechanical properties evaluation of cathodic arc deposited CrCN/ZrCN multilayer coatings. Journal of Alloys and Compounds, 2019, 803, 1005-1015.	2.8	13
115	High-temperature MgOâ€“Câ€“Al refractoriesâ€“metal reactions in high-aluminum-content alloy steels. Journal of Materials Research, 2003, 18, 1950-1959.	1.2	12
116	Rethinking of the silicon nanowire growth mechanism during thermal evaporation of Si-containing powders. Thin Solid Films, 2014, 558, 75-85.	0.8	12
117	Synthesis and characterization of nacre-inspired zirconia/polyimide multilayer coatings by a hybrid sputtering and pulsed laser deposition technique. Surface and Coatings Technology, 2015, 284, 118-128.	2.2	12
118	Cross-Talk Immunity of PEDOT:PSS Pressure Sensing Arrays with Gold Nanoparticle Incorporation. Scientific Reports, 2017, 7, 12252.	1.6	12
119	Fracture resistance of dental nickelâ€“titanium rotary instruments with novel surface treatment: Thin film metallic glass coating. Journal of the Formosan Medical Association, 2017, 116, 373-379.	0.8	12
120	Effect of an optical emission spectrometer feedback-controlled method on the characterizations of nc-TiC/a-C:H coated by high power impulse magnetron sputtering. Diamond and Related Materials, 2017, 73, 19-24.	1.8	12
121	Superimposition of high power impulse and middle frequency magnetron sputtering for fabrication of CrTiBN multicomponent hard coatings. Surface and Coatings Technology, 2018, 350, 962-970.	2.2	12
122	The influence of boron contents on the microstructure and mechanical properties of Crâ€“Bâ€“N thin films. Vacuum, 2013, 87, 191-194.	1.6	11
123	Texture, microstructure and anti-wear characteristics in isostructural CrAlSiN/W2N multilayer coatings. Thin Solid Films, 2013, 544, 265-269.	0.8	11
124	Measuring notch toughness of thin film metallic glasses using focused ion beam-based microcantilever method: Comparison with Ti and TiN crystalline films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 698, 104-109.	2.6	11
125	Hybrid high power impulse and radio frequency magnetron sputtering system for TiCrSiN thin film depositions: Plasma characteristics and film properties. Surface and Coatings Technology, 2018, 350, 762-772.	2.2	11
126	Comparison in microstructure and mechanical properties of nanocomposite CrWN and nanolayered CrN/WN coatings. Surface and Coatings Technology, 2006, 200, 3194-3198.	2.2	10

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127	Effects of Boron and Nitrogen Contents on the Microstructures and Mechanical Properties of Cr-B-N Nanocomposite Thin Films. Procedia Engineering, 2012, 36, 360-367.	1.2	10
128	Self-lubricating CrVN Coating Strengthened via Multilayering with VN. Journal of Iron and Steel Research International, 2014, 21, 545-550.	1.4	10
129	Bump height confinement governed solder alloy hardening in Cu/SnAg/Ni and Cu/SnAgCu/Ni joint assemblies. Journal of Alloys and Compounds, 2014, 600, 199-203.	2.8	10
130	Effect of pulsed off-times on the reactive HiPIMS preparation of zirconia thin films. Vacuum, 2015, 118, 38-42.	1.6	10
131	Boosted photocatalytic efficiency through plasmonic field confinement with bowtie and diabolo nanostructures under LED irradiation. Optics Express, 2016, 24, 17541.	1.7	10
132	Mechanical property evaluation of ZrSiN films deposited by a hybrid superimposed high power impulse-medium frequency sputtering and RF sputtering system. Surface and Coatings Technology, 2019, 376, 59-67.	2.2	10
133	Corrosion property and biocompatibility evaluation of Feâ€“Zrâ€“Nb thin film metallic glasses. Thin Solid Films, 2019, 691, 137615.	0.8	10
134	Processing Characteristics Using Phosphorous Dielectric on Wire Electrical Discharge Machining of Polycrystalline Silicon. Materials and Manufacturing Processes, 2014, 29, 146-152.	2.7	9
135	Effect of target poisoning ratios on the fabrication of titanium oxide coatings using superimposed high power impulse and medium frequency magnetron sputtering. Surface and Coatings Technology, 2021, 421, 127430.	2.2	9
136	High power impulse magnetron sputtering (HiPIMS) for the fabrication of antimicrobial and transparent TiO2 thin films. Current Opinion in Chemical Engineering, 2022, 36, 100782.	3.8	9
137	Phase, mechanical property and corrosion resistance evaluation of W-Nb-Ta-Ti and W-Nb-Ta-Ti-N medium entropy alloy thin films. Surface and Coatings Technology, 2022, 442, 128339.	2.2	9
138	Mechanical properties evaluation of chromized tungsten carbideâ€“cobalt hardmetals. Surface and Coatings Technology, 2009, 204, 1106-1111.	2.2	8
139	High Temperature Oxidation Behaviors of CrNx and Cr-Si-N Thin Films at 1000 Â°C. Coatings, 2019, 9, 540.	1.2	8
140	NaCl-induced accelerated oxidation of 304 stainless steel and Fe-Mn-Al alloy at 900Â°C. Journal of Materials Science, 2003, 38, 3619-3628.	1.7	7
141	Microstructures and mechanical properties evaluation of hard chromized austenitic Feâ€“Mnâ€“Al alloys. Applied Surface Science, 2005, 244, 248-251.	3.1	7
142	Evaluation of antimicrobial abilities of Cr2N/Cu multilayered thin films. Thin Solid Films, 2010, 518, 7551-7556.	0.8	7
143	Photocatalytic deactivation of airborne microbial cells by the stainless steel sieves with surface coated TiO2 thin films. Surface and Coatings Technology, 2010, 205, S328-S332.	2.2	7
144	Incident-angle-dependent reflectance in distributed Bragg reflectors fabricated from ZnO/MgO multilayer films. Optical Review, 2014, 21, 651-654.	1.2	7

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145	Prediction of amorphous phase formation by thermodynamic and kinetic analysis, a Fe-based thin film metallic glass deposited by direct current magnetron sputtering. Materials Research Express, 2019, 6, 096407.	0.8	7
146	Improvement of CrMoN/SiNx coatings on mechanical and high temperature Tribological properties through biomimetic laminated structure design. Surface and Coatings Technology, 2020, 393, 125754.	2.2	7
147	Wire or no wireâ€"Depends on the catalyst layer thickness. Journal of Crystal Growth, 2013, 381, 87-92.	0.7	6
148	Orientation of silicon nanowires grown from nickel-coated silicon wafers. Journal of Crystal Growth, 2014, 404, 26-33.	0.7	6
149	Internal oxidation and mechanical properties of Ru based alloy coatings. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, 02B101.	0.9	6
150	A study of microbial population dynamics associated with corrosion rates influenced by corrosion control materials. International Biodeterioration and Biodegradation, 2015, 102, 330-338.	1.9	6
151	Effects of annealing temperature on nanomechanical and microstructural properties of Cu-doped In2O3 thin films. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	6
152	Tribological and mechanical properties of Cu/Ni-microdiamond bilayers on brass substrates coated by composite electrodeposition technology. Surface Topography: Metrology and Properties, 2020, 8, 024005.	0.9	6
153	Hard Yet Tough Ceramic Coating: Not a Dream Any Moreâ€"I. via Nanostructured Multilayering. Nanoscience and Nanotechnology Letters, 2012, 4, 375-377.	0.4	6
154	Mechanism of Fe-Mn-Al alloy steel ingot failure from MgO-C refractory corrosion. Journal of Materials Science, 2003, 38, 713-720.	1.7	5
155	Fabrication of W-Zr-Si thin film metallic glasses and the influence of post-annealing treatment. Journal of Non-Crystalline Solids, 2018, 482, 170-176.	1.5	5
156	Comparison of chromium carbide thin films grown by different power supply systems. Surface and Coatings Technology, 2018, 353, 329-338.	2.2	5
157	Transferred Cold Atmospheric Plasma Treatment on Melanoma Skin Cancer Cells with/without Catalase Enzyme In Vitro. Applied Sciences (Switzerland), 2021, 11, 6181.	1.3	5
158	Microstructure evaluation and mechanical properties of nanolayered chromium nitride/tungsten nitride coating. Journal of Electronic Materials, 2005, 34, 1533-1537.	1.0	4
159	Morphology control and characteristics of ZnO/ZnS nanorod arrays synthesised by microwaveâ€assisted heating. Micro and Nano Letters, 2016, 11, 192-195.	0.6	4
160	The Indentation-Induced Pop-in Phenomenon and Fracture Behaviors of GaP(100) Single-Crystal. Micromachines, 2019, 10, 752.	1.4	4
161	Fabrication and properties evaluation of novel Fe46-XCr23Mo14Co7PXB5Si5 (X=0, 6) m metallic glasses deposited by DC magnetron sputtering. Intermetallics, 2021, 131, 107120.	1.8	4
162	Improvement of the Adhesion and Diamond Content of Electrodeposited Cu/Microdiamond Composite Coatings by a Plated Cu Interlayer. Materials, 2021, 14, 2571.	1.3	4

#	Article	IF	Citations
163	Detaching mechanism for Moâ€“Ru hard coating on tungsten carbide. Surface and Coatings Technology, 2007, 202, 967-972.	2.2	3
164	Glass Fibers Covered with TiO₂ Thin Films by Sol-Gel Method as a Photocatalyst Reactor to Degradation Toluene. Advanced Materials Research, 2009, 79-82, 927-930.	0.3	3
165	Microstructure and Corrosion Behavior of Ni-Alloy/CrN Nanolayered Coatings. Journal of Nanomaterials, 2011, 2011, 1-6.	1.5	3
166	The influence of different power supply modes on the microstructure, mechanical, and corrosion properties of nc-TiC/a-C:H nanocomposite coatings. Surface and Coatings Technology, 2021, 422, 127512.	2.2	3
167	Property evaluation of TixZrNbTaFeBy high entropy alloy coatings: Effect of Ti and B contents. Surface and Coatings Technology, 2022, 434, 128180.	2.2	3
168	A low-cost optical inspection system for rapid surface roughness measurements of CrCN hard films. Optik, 2013, 124, 1902-1906.	1.4	2
169	Effects of Al and V Additions on Mechanical Response in Thick TiSiCN Nanocomposites Deposited Using Plasma-Enhanced Magnetron Sputtering. Japanese Journal of Applied Physics, 2013, 52, 11NJ10.	0.8	2
170	Microstructural, mechanical and optical properties of tungsten oxide coatings fabricated using superimposed HiPIMS-MF systems. Surface and Coatings Technology, 2022, 436, 128314.	2.2	2
171	Effects of RTA-treated ZnO/Quartz Thin Films on the Structural and Optical Properties. ECS Transactions, 2007, 6, 221-226.	0.3	1
172	The Effect of Heat Treating on the Microstructure and Mechanical Properties of Cr-Cu-N Nanocomposite Thin Films. Advanced Materials Research, 2009, 79-82, 573-576.	0.3	1
173	Entrapment of Gold Catalyst in Silicon/Silicon-Oxide Nanowires. Nanoscience and Nanotechnology Letters, 2014, 6, 922-926.	0.4	1
174	Texture, Microstructure, and Tribological Behavior in <scp>T</scp>i<scp>A</scp>l<scp>N</scp>/<scp>S</scp>i<scp>N</scp>_x Multilayers. International Journal of Applied Ceramic Technology, 2014, 11, 611-617.	1.1	1
175	Degradation of Volatile Acetone by a Photocatalytic Reactor with TiO₂ Coated Sieve. Advanced Materials Research, 2010, 123-125, 919-922.	0.3	0
176	The Influence of Annealing Temperatures on the Crystalline and Photocatalytic Abilities of Anodized TiO₂ Nanotube Arrays. Advanced Materials Research, 2011, 261-263, 623-627.	0.3	0
177	A Synthesized TiO2 Coated Sieve in a Photocatalytic Reactor for Deactivating Bioaerosol in Air. Advanced Science Letters, 2012, 14, 431-435.	0.2	0