Allan Matthews

List of Publications by Year
in descending order

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349	23,419	13332	11282
papers	citations	70 h-index	141 g-index

363	363	363	11324
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plasma electrolytic oxidation of magnesium by sawtooth pulse current. Surface and Coatings Technology, 2022, 429, 127938.	2.2	12
2	Analysis of electrical response, gas evolution and coating morphology during transition to soft sparking PEO of Al. Surface and Coatings Technology, 2022, 442, 128142.	2.2	13
3	An investigation of precipitation strengthened Inconel 718 superalloy after triode plasma nitriding. Surface and Coatings Technology, 2022, 442, 128401.	2.2	8
4	Surface characteristics underpinning fretting wear performance of heavily loaded duplex chameleon/PEO coatings on Al. Tribology International, 2021, 154, 106723.	3.0	14
5	Effect of Pt nanoparticle decoration on the H2 storage performance of plasma-derived nanoporous graphene. Carbon, 2021, 171, 294-305.	5.4	27
6	Evaluation of the sliding wear and corrosion performance of triode-plasma nitrided Fe-17Cr-20Mn-0.5N high-manganese and Fe-19Cr-35Ni-1.2Si high-nickel austenitic stainless steels. Surface and Coatings Technology, 2021, 409, 126890.	2.2	23
7	Toward rational design of ceramic coatings generated on valve metals by plasma electrolytic oxidation: The role of cathodic polarisation. Ceramics International, 2021, 47, 34137-34158.	2.3	30
8	Dry sliding wear behaviour of additive manufactured CrC-rich WC-Co cemented carbides. Wear, 2021, 486-487, 204127.	1.5	11
9	Flexible nanoporous activated carbon for adsorption of organics from industrial effluents. Nanoscale, 2021, 13, 15311-15323.	2.8	26
10	Adhesive bond strength of PEO coated AA6060-T6. Surface and Coatings Technology, 2021, 428, 127898.	2.2	12
11	On the Nitrogen-Induced Lattice Expansion of a Non-stainless Austenitic Steel, Invar 36Â®, Under Triode Plasma Nitriding. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 436-447.	1.1	17
12	Relaxation Kinetics of Plasma Electrolytic Oxidation Coated Al Electrode: Insight into the Role of Negative Current. Journal of Physical Chemistry C, 2020, 124, 23784-23797.	1.5	13
13	Investigation of the nanostructure of as-deposited and post-coat annealed CrCuAgN PVD nanocomposite coatings. Materials Chemistry and Physics, 2020, 255, 123499.	2.0	1
14	Nanostructural Characterisation and Optical Properties of Sputter-Deposited Thick Indium Tin Oxide (ITO) Coatings. Coatings, 2020, 10, 1127.	1.2	7
15	Evaluation of wear mechanisms in additive manufactured carbide-rich tool steels. Wear, 2020, 462-463, 203449.	1.5	7
16	On the interstitial induced lattice inhomogeneities in nitrogen-expanded austenite. Scripta Materialia, 2020, 185, 146-151.	2.6	16
17	Smart Functionalization of Ceramic-Coated AZ31 Magnesium Alloy. ACS Applied Materials & Interfaces, 2020, 12, 30833-30846.	4.0	38
18	Surface Engineering of Ceramic Nanomaterials for Separation of Oil/Water Mixtures. Frontiers in Chemistry, 2020, 8, 578.	1.8	14

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19	AC plasma electrolytic oxidation of additively manufactured and cast AlSi12 alloys. Surface and Coatings Technology, 2020, 399, 126116.	2.2	29
20	Plasma additive layer manufacture smoothing (PALMS) technology â€“ An industrial prototype machine development and a comparative study on both additive manufactured and conventional machined AISI 316 stainless steel. Additive Manufacturing, 2020, 34, 101204.	1.7	5
21	Industrial Gear Oils: Influence of Bulk Oil Temperature and Contact Pressure on Tribological Performance and Subsurface Changes. Tribology Letters, 2020, 68, 1.	1.2	7
22	Phase Change with Density Variation and Cylindrical Symmetry: Application to Selective Laser Melting. Journal of Manufacturing and Materials Processing, 2019, 3, 62.	1.0	1
23	Renewable Adsorbent for the Separation of Surfactant-Stabilized Oil in Water Emulsions Based on Nanostructured Sawdust. ACS Sustainable Chemistry and Engineering, 2019, 7, 18935-18942.	3.2	28
24	Role of cathodic current in plasma electrolytic oxidation of Al: A quantitative approach to in-situ evaluation of cathodically induced effects. Electrochimica Acta, 2019, 317, 221-231.	2.6	38
25	Charge transfer mechanisms underlying Contact Glow Discharge Electrolysis. Electrochimica Acta, 2019, 312, 441-456.	2.6	41
26	Incorporation of halloysite nanotubes into forsterite surface layer during plasma electrolytic oxidation of AM50 Mg alloy. Electrochimica Acta, 2019, 299, 772-788.	2.6	45
27	The influence of stacking fault energy on plasticity mechanisms in triode-plasma nitrided austenitic stainless steels: Implications for the structure and stability of nitrogen-expanded austenite. Acta Materialia, 2019, 164, 60-75.	3.8	38
28	Plasma electrolytic oxidation coatings on cp-Mg with cerium nitrate and benzotriazole immersion post-treatments. Surface and Coatings Technology, 2018, 344, 330-341.	2.2	40
29	Industrial Gear Oils: Tribological Performance and Subsurface Changes. Tribology Letters, 2018, 66, 65.	1.2	8
30	Improving the surface characteristics of Ti-6Al-4V and Timetal 834 using PIRAC nitriding treatments. Surface and Coatings Technology, 2018, 339, 208-223.	2.2	23
31	Novel combustion synthesis of carbon foamâ€‘aluminum fluoride nanocomposite materials. Materials and Design, 2018, 144, 222-228.	3.3	14
32	Deposition of a stable and high concentration of carboxylic acid functional groups onto a silicon surface via a tailored remote atmospheric pressure plasma process. Surface and Coatings Technology, 2018, 336, 67-71.	2.2	17
33	The role of cathodic current in plasma electrolytic oxidation of aluminium: current density â€˜scanning wavesâ€™ on complex-shape substrates. Journal Physics D: Applied Physics, 2018, 51, 405303.	1.3	14
34	Fretting wear behavior of duplex PEO/chameleon coating on Al alloy. Surface and Coatings Technology, 2018, 352, 238-246.	2.2	36
35	Immobilization of carboxylic acid groups on polymeric substrates by plasma-enhanced chemical vapor or atmospheric pressure plasma deposition of acetic acid. Thin Solid Films, 2018, 666, 54-60.	0.8	7
36	Advances in piezoelectric thin films for acoustic biosensors, acoustofluidics and lab-on-chip applications. Progress in Materials Science, 2017, 89, 31-91.	16.0	467

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37	Mechanical properties and abrasive wear behaviour of Al-based PVD amorphous/nanostructured coatings. Surface and Coatings Technology, 2017, 310, 59-69.	2.2	32
38	The Role of Cathodic Current in Plasma Electrolytic Oxidation of Aluminum: Phenomenological Concepts of the â€œSoft Sparkingâ€•Mode. Langmuir, 2017, 33, 11059-11069.	1.6	85
39	CrCuAgN PVD nanocomposite coatings: Effects of annealing on coating morphology and nanostructure. Applied Surface Science, 2017, 392, 732-746.	3.1	15
40	Crystal size induced reduction in thermal hysteresis of Ni-Ti-Nb shape memory thin films. Applied Physics Letters, 2016, 108, .	1.5	5
41	Self-healing plasma electrolytic oxidation coatings doped with benzotriazole loaded halloysite nanotubes on AM50 magnesium alloy. Corrosion Science, 2016, 111, 753-769.	3.0	172
42	Characteristics and in vitro response of thin hydroxyapatiteâ€“titania films produced by plasma electrolytic oxidation of Ti alloys in electrolytes with particle additions. RSC Advances, 2016, 6, 12688-12698.	1.7	32
43	In situ impedance spectroscopy of the plasma electrolytic oxidation process for deposition of Ca- and P-containing coatings on Ti. Surface and Coatings Technology, 2016, 301, 54-62.	2.2	83
44	Characterisation and Electrochemical Evaluation of Plasma Electrolytic Oxidation Coatings on Magnesium with Plasma Enhanced Chemical Vapour Deposition Post-Treatments. Plasma Processes and Polymers, 2016, 13, 266-278.	1.6	15
45	Mechanical behaviour of cp-magnesium with duplex hydroxyapatite and PEO coatings. Materials Science and Engineering C, 2015, 49, 190-200.	3.8	28
46	Deposition and evaluation of duplex hydroxyapatite and plasma electrolytic oxidation coatings on magnesium. Surface and Coatings Technology, 2015, 269, 170-182.	2.2	64
47	Towards smart electrolytic plasma technologies: An overview of methodological approaches to process modelling. Surface and Coatings Technology, 2015, 269, 2-22.	2.2	146
48	Characterization and corrosion evaluation of TiO2:n-HA coatings on titanium alloy formed by plasma electrolytic oxidation. Surface and Coatings Technology, 2015, 269, 258-265.	2.2	82
49	Tribological behaviour of thermochemically surface engineered steels. , 2015, , 241-266.		9
50	Fabrication of Nb2O5/SiO2 mixed oxides by reactive magnetron co-sputtering. Thin Solid Films, 2015, 589, 95-104.	0.8	16
51	Effect of positive and negative pulse voltages on surface properties and equivalent circuit of the plasma electrolytic oxidation process. Surface and Coatings Technology, 2015, 284, 427-437.	2.2	45
52	Corrosion behaviour of triode plasma diffusion treated and PVD TiN-coated Tiâ€“6Alâ€“4V in acidified aqueous chloride environments. Surface and Coatings Technology, 2015, 280, 185-193.	2.2	15
53	The combined effects of Cu and Ag on the nanostructure and mechanical properties of CrCuAgN PVD coatings. Surface and Coatings Technology, 2015, 284, 101-111.	2.2	16
54	Small grain size zirconium-based coatings deposited by magnetron sputtering at low temperatures. Thin Solid Films, 2015, 591, 149-155.	0.8	6

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55	Effect of current mode on PEO treatment of magnesium in Ca- and P-containing electrolyte and resulting coatings. Applied Surface Science, 2014, 316, 558-567.	3.1	93
56	Laser Texturing of Plasma Electrolytically Oxidized Aluminum 6061 Surfaces for Improved Hydrophobicity. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, .	1.3	23
57	Influence of current density and electrolyte concentration on DC PEO titania coatings. Surface Engineering, 2014, 30, 102-108.	1.1	35
58	High-rate reactive magnetron sputtering of zirconia films for laser optics applications. Applied Physics A: Materials Science and Processing, 2014, 116, 1229-1240.	1.1	16
59	Composite hydroxyapatiteâ€“PTFE coatings on Mgâ€“Mnâ€“Ce alloy for resorbable implant applications via a plasma electrolytic oxidation-based route. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 3104-3109.	2.7	56
60	Unlocking the potential of voltage control for high rate zirconium and hafnium oxide deposition by reactive magnetron sputtering. Vacuum, 2014, 107, 159-163.	1.6	11
61	Enhanced surface performance of Ti-6Al-4V alloy using a novel duplex process combining PVD-Al coating and triode plasma oxidation. Surface and Coatings Technology, 2014, 257, 154-164.	2.2	15
62	Application of Voltage Pulse Transient Analysis during Plasma Electrolytic Oxidation for Assessment of Characteristics and Corrosion Behaviour of Ca- and P-containing Coatings on Magnesium. Electrochimica Acta, 2014, 149, 218-230.	2.6	83
63	Evaluating the effects of PIRAC nitrogen-diffusion treatments on the mechanical performance of Tiâ€“6Alâ€“4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 619, 300-311.	2.6	24
64	Evaluation of Residual Stress Development at the Interface of Plasma Electrolytically Oxidized and Cold-Worked Aluminum. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 4461-4465.	1.1	9
65	Substrate and bonding layer effects on performance of DLC and TiN biomedical coatings in Hank's solution under cyclic impactâ€“sliding loads. Surface and Coatings Technology, 2013, 237, 219-229.	2.2	31
66	DC plasma electrolytic oxidation of biodegradable cp-Mg: In-vitro corrosion studies. Surface and Coatings Technology, 2013, 234, 132-142.	2.2	43
67	Impact wear and abrasion resistance of CrN, AlCrN and AlTiN PVD coatings. Surface and Coatings Technology, 2013, 215, 170-177.	2.2	122
68	System linearity quantification for in-situ impedance spectroscopy of plasma electrolytic oxidation. Electrochemistry Communications, 2013, 27, 137-140.	2.3	18
69	Corrosion behaviour and galvanic coupling with steel of Al-based coating alternatives to electroplated cadmium. Materials Chemistry and Physics, 2013, 141, 128-137.	2.0	11
70	In vitro biological response of plasma electrolytically oxidized and plasmaâ€sprayed hydroxyapatite coatings on Tiâ€“6Alâ€“4V alloy. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 939-949.	1.6	53
71	Laser treatment of carbon film coated steel surface. Surface Engineering, 2012, 28, 57-67.	1.1	2
72	Surface modification of Tiâ€“6Alâ€“4V alloys using triode plasma oxidation treatments. Surface and Coatings Technology, 2012, 206, 4553-4561.	2.2	23

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73	Laser surface modification treatment of aluminum bronze with B4C. Applied Surface Science, 2012, 263, 804-809.	3.1	34
74	Triode plasma diffusion treatment of titanium alloys. Surface and Coatings Technology, 2012, 212, 20-31.	2.2	20
75	Impact wear resistance of plasma diffusion treated and duplex treated/PVD-coated Tiâ€“6Alâ€“4V alloy. Surface and Coatings Technology, 2012, 206, 2645-2654.	2.2	33
76	An investigation into the tribological performance of Physical Vapour Deposition (PVD) coatings on high thermal conductivity Cu-alloy substrates and the effect of an intermediate electroless Niâ€“P layer prior to PVD treatment. Thin Solid Films, 2012, 520, 2922-2931.	0.8	19
77	Micro-abrasion wear testing of triode plasma diffusion and duplex treated Tiâ€“6Alâ€“4V alloy. Wear, 2012, 274-275, 377-387.	1.5	22
78	Laser Remelting of Zirconia Surface: Investigation into Stress Field and Microstructures. Materials and Manufacturing Processes, 2011, 26, 1277-1287.	2.7	14
79	The UK surface engineering market. Transactions of the Institute of Metal Finishing, 2011, 89, 69-70.	0.6	2
80	Tribological properties of duplex plasma oxidised, nitrided and PVD coated Tiâ€“6Alâ€“4V. Surface and Coatings Technology, 2011, 206, 395-404.	2.2	38
81	An investigation into the effect of Triode Plasma Oxidation (TPO) on the tribological properties of Ti6Al4V. Surface and Coatings Technology, 2011, 206, 1955-1962.	2.2	17
82	A comparison of reactive plasma pre-treatments on PET substrates by Cu and Ti pulsed-DC and HIPIMS discharges. Thin Solid Films, 2011, 520, 1564-1570.	0.8	17
83	Plasma-based processes and thin film equipment for nano-scale device fabrication. Journal of Materials Science, 2011, 46, 1-37.	1.7	15
84	Evaluating the effects of plasma diffusion processing and duplex diffusion/PVD-coating on the fatigue performance of Tiâ€“6Alâ€“4V alloy. International Journal of Fatigue, 2011, 33, 1313-1323.	2.8	38
85	Microstructure and Thermal Stress Distributions in Laser Carbonitriding Treatment of Tiâ€“6Alâ€“4V Alloy. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	1.3	11
86	Influence of Surface Hardening Depth on the Cavitation Erosion Resistance of a Low Alloy Steel. Journal of ASTM International, 2011, 8, 1-12.	0.2	0
87	Spectroscopic study of electrolytic plasma and discharging behaviour during the plasma electrolytic oxidation (PEO) process. Journal Physics D: Applied Physics, 2010, 43, 105203.	1.3	475
88	Substitution of hexavalent chromate conversion treatment with a plasma electrolytic oxidation process to improve the corrosion properties of ion vapour deposited AlMg coatings. Surface and Coatings Technology, 2010, 205, 1750-1756.	2.2	17
89	Corrosion properties and contact resistance of TiN, TiAlN and CrN coatings in simulated proton exchange membrane fuel cell environments. Journal of Power Sources, 2010, 195, 3814-3821.	4.0	127
90	Pulse current plasma assisted electrolytic cleaning of AISI 4340 steel. Journal of Materials Processing Technology, 2010, 210, 54-63.	3.1	40

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91	A study of the nanostructure and hardness of electron beam evaporated TiAlBN Coatings. Thin Solid Films, 2010, 518, 4273-4280.	0.8	15
92	Nano-structured TiO2 films by plasma electrolytic oxidation combined with chemical and thermal post-treatments of titanium, for dye-sensitised solar cell applications. Thin Solid Films, 2010, 519, 1723-1728.	0.8	29
93	PEO coatings obtained on an Mgâ€“Mn type alloy under unipolar and bipolar modes in silicate-containing electrolytes. Surface and Coatings Technology, 2010, 204, 2316-2322.	2.2	145
94	Surface characterisation of DC plasma electrolytic oxidation treated 6082 aluminium alloy: Effect of current density and electrolyte concentration. Surface and Coatings Technology, 2010, 205, 1679-1688.	2.2	156
95	Voltastatic studies of magnesium anodising in alkaline solutions. Surface and Coatings Technology, 2010, 205, 1527-1531.	2.2	22
96	A study of the reciprocating-sliding wear performance of plasma surface treated titanium alloy. Wear, 2010, 269, 60-70.	1.5	69
97	The nanostructure, wear and corrosion performance of arc-evaporated CrBxNy nanocomposite coatings. Surface and Coatings Technology, 2009, 204, 246-255.	2.2	33
98	Positive Ion Mass Spectrometry during an Atmospheric Pressure Plasma Treatment of Polymers. Plasma Processes and Polymers, 2009, 6, 521-529.	1.6	14
99	Mutifunctional arc ion plated TiO2 photocatalytic coatings with improved wear and corrosion protection. Surface and Coatings Technology, 2009, 203, 1689-1693.	2.2	16
100	Small signal frequency response studies for plasma electrolytic oxidation. Surface and Coatings Technology, 2009, 203, 2896-2904.	2.2	30
101	Growth behavior and microstructure of arc ion plated titanium dioxide. Surface and Coatings Technology, 2009, 204, 915-922.	2.2	21
102	Evaluation of abradable seal coating mechanical properties. Wear, 2009, 267, 1501-1510.	1.5	49
103	The morphology and structure of PVD ZrNâ€“Cu thin films. Journal Physics D: Applied Physics, 2009, 42, 085308.	1.3	15
104	Material transfer phenomena and failure mechanisms of a nanostructured Crâ€“Alâ€“N coating in laboratory wear tests and an industrial punch tool application. Surface and Coatings Technology, 2008, 203, 816-821.	2.2	47
105	Composition and structure-property relationships of chromium-diboride/molybdenum-disulphide PVD nanocomposite hard coatings deposited by pulsed magnetron sputtering. Applied Physics A: Materials Science and Processing, 2008, 91, 77-86.	1.1	24
106	Characterization studies of pulse magnetron sputtered hard ceramic titanium diboride coatings alloyed with silicon. Acta Materialia, 2008, 56, 4172-4182.	3.8	17
107	Tribological behaviour of pulsed magnetron sputtered CrB2 coatings examined by reciprocating sliding wear testing against aluminium alloy and steel. Surface and Coatings Technology, 2008, 202, 1470-1478.	2.2	30
108	Deposition of functional coatings from acrylic acid and octamethylcyclotetrasiloxane onto steel using an atmospheric pressure dielectric barrier discharge. Surface and Coatings Technology, 2008, 203, 822-825.	2.2	37

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109	Pulsed-bias magnetron sputtering of non-conductive crystalline chromia films at low substrate temperature. Journal Physics D: Applied Physics, 2008, 41, 035309.	1.3	17
110	Structure and mechanical properties of nitrogen-containing Zrâ€“Cu based thin films deposited by pulsed magnetron sputtering. Journal Physics D: Applied Physics, 2008, 41, 155301.	1.3	13
111	Structural characteristics and residual stresses in oxide films produced on Ti by pulsed unipolar plasma electrolytic oxidation. Philosophical Magazine, 2008, 88, 795-807.	0.7	59
112	Tribological coatings: contact mechanisms and selection. Journal Physics D: Applied Physics, 2007, 40, 5463-5475.	1.3	123
113	Hard and superhard TiAlBN coatings deposited by twin electron-beam evaporation. Surface and Coatings Technology, 2007, 201, 6078-6083.	2.2	36
114	Frequency response studies for the plasma electrolytic oxidation process. Surface and Coatings Technology, 2007, 201, 8661-8670.	2.2	61
115	Investigation of abradable seal coating performance using scratch testing. Surface and Coatings Technology, 2007, 202, 1214-1220.	2.2	57
116	Structure and electronic properties calculation of ultrathin Î±-Al2O3 films on (0001) Î±-Cr2O3 templates. Surface Science, 2007, 601, 5050-5056.	0.8	10
117	A perspective on the optimisation of hard carbon and related coatings for engineering applications. Thin Solid Films, 2007, 515, 6619-6653.	0.8	293
118	Impedance spectroscopy characterisation of PEO process and coatings on aluminium. Thin Solid Films, 2007, 516, 428-432.	0.8	50
119	A New Approach to the Deposition of Elemental Boron and Boron-Based Coatings by Pulsed Magnetron Sputtering of Loosely Packed Boron Powder Targets. Plasma Processes and Polymers, 2007, 4, S160-S165.	1.6	9
120	The Structure and Mechanical Properties of Ti-Si-B Coatings Deposited by DC and Pulsed-DC Unbalanced Magnetron Sputtering. Plasma Processes and Polymers, 2007, 4, S687-S692.	1.6	23
121	The influence of coatings on the oil-out performance of rolling bearings. Surface and Coatings Technology, 2007, 202, 1073-1077.	2.2	17
122	Molecular dynamics simulation of the (0001) Î±-Al2O3 and Î±-Cr2O3 surfaces. Surface Science, 2007, 601, 1358-1364.	0.8	15
123	Excessive oxygen evolution during plasma electrolytic oxidation of aluminium. Thin Solid Films, 2007, 516, 460-464.	0.8	79
124	The effect of combined shot-peening and PEO treatment on the corrosion performance of 2024 Al alloy. Thin Solid Films, 2007, 516, 417-421.	0.8	46
125	A TEM study of the structure of magnetron sputtered chromium diboride coatings. Journal of Physics: Conference Series, 2006, 26, 355-358.	0.3	12
126	Optimization of Nanostructured Tribological Coatings. Nanostructure Science and Technology, 2006, , 511-538.	0.1	17

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127	Nanostructural studies of PVD TiAlB coatings. Surface and Interface Analysis, 2006, 38, 731-735.	0.8	9
128	A simple transferable interatomic potential model for binary oxides applied to bulk and the (0001) surface. Journal of Crystal Growth, 2006, 290, 235-240.	0.7	33
129	Mechanical and tribological properties of CrTiCu(B,N) glassy-metal coatings deposited by reactive magnetron sputtering. Surface and Coatings Technology, 2006, 200, 4601-4611.	2.2	10
130	Deposition of Niâ€“Alâ€“Y alloy films using a hybrid arc ion plating and magnetron sputtering system. Surface and Coatings Technology, 2006, 200, 5877-5883.	2.2	19
131	Studies on a combined reactive plasma sprayed/arc deposited duplex coating for titanium alloys. Surface and Coatings Technology, 2006, 201, 1200-1206.	2.2	21
132	Thermal cyclic performance of NiAl/alumina-stabilized zirconia thermal barrier coatings deposited using a hybrid arc and magnetron sputtering system. Surface and Coatings Technology, 2006, 201, 3901-3905.	2.2	5
133	The effect of pulsed magnetron sputtering on the structure and mechanical properties of CrB2 coatings. Surface and Coatings Technology, 2006, 201, 3970-3976.	2.2	41
134	Structure and surface energy of low-index surfaces of stoichiometric Î±-Al2O3 and Î±-Cr2O3. Surface and Coatings Technology, 2006, 201, 4205-4208.	2.2	107
135	Calculation of native defect energies in Î±-A12O3 and Î±-Cr2O3 using a modified Matsui potential. Surface and Coatings Technology, 2006, 201, 4201-4204.	2.2	11
136	Correlation of elastic modulus, hardness and density for sputtered TiAlBN thin films. Thin Solid Films, 2006, 514, 81-86.	0.8	23
137	Microstructure of direct current and pulse magnetron sputtered Crâ€“B coatings. Thin Solid Films, 2006, 515, 1511-1516.	0.8	43
138	Effect of combined shot-peening and PEO treatment on fatigue life of 2024ÂAl alloy. Thin Solid Films, 2006, 515, 1187-1191.	0.8	85
139	Coatings and Surface Engineering: Physical Vapor Deposition. , 2006, , 396-413.		2
140	A model for galvanostatic anodising of Al in alkaline solutions. Electrochimica Acta, 2005, 50, 5458-5464.	2.6	32
141	Characterisation and tribological evaluation of nitrogen-containing molybdenumâ€“copper PVD metallic nanocomposite films. Surface and Coatings Technology, 2005, 190, 345-356.	2.2	39
142	Oxide ceramic coatings on aluminium alloys produced by a pulsed bipolar plasma electrolytic oxidation process. Surface and Coatings Technology, 2005, 199, 150-157.	2.2	244
143	Investigation of the nanostructure and post-coat thermal treatment of wear-resistant PVD CrTiCuBN coatings. Surface and Coatings Technology, 2005, 200, 310-314.	2.2	10
144	Hard tribological Tiâ€“Bâ€“N, Tiâ€“Crâ€“Bâ€“N, Tiâ€“Siâ€“Bâ€“N and Tiâ€“Alâ€“Siâ€“Bâ€“N coatings. Surface and Coatings Technology, 2005, 200, 208-212.	2.2	86

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145	The structure and properties of chromium diboride coatings deposited by pulsed magnetron sputtering of powder targets. Surface and Coatings Technology, 2005, 200, 1366-1371.	2.2	39
146	Plasma nitriding of Ti6Al4V alloy and AISI M2 steel substrates using D.C. glow discharges under a triode configuration. Surface and Coatings Technology, 2005, 200, 1954-1961.	2.2	41
147	Deposition of multicomponent chromium boride based coatings by pulsed magnetron sputtering of powder targets. Surface and Coatings Technology, 2005, 200, 1616-1623.	2.2	31
148	Deposition of yttria-stablized zirconia films using arc ion plating. Surface and Coatings Technology, 2005, 200, 1401-1406.	2.2	15
149	Residual stresses in plasma electrolytic oxidation coatings on Al alloy produced by pulsed unipolar current. Surface and Coatings Technology, 2005, 200, 1580-1586.	2.2	115
150	Editorial: Welcoming 3rd Editor. Surface and Coatings Technology, 2005, 197, vii.	2.2	0
151	Investigation of the nanostructure and wear properties of physical vapor deposited CrCuN nanocomposite coatings. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 423-433.	0.9	38
152	Fatigue properties of KeroniteÂ® coatings on a magnesium alloy. Surface and Coatings Technology, 2004, 182, 78-84.	2.2	171
153	Coating fracture toughness determined by Vickers indentation: an important parameter in cavitation erosion resistance of WCâ€“Co thermally sprayed coatings. Surface and Coatings Technology, 2004, 177-178, 489-496.	2.2	119
154	Anodic processes in plasma electrolytic oxidation of aluminium in alkaline solutions. Electrochimica Acta, 2004, 49, 2085-2095.	2.6	363
155	Spatial characteristics of discharge phenomena in plasma electrolytic oxidation of aluminium alloy. Surface and Coatings Technology, 2004, 177-178, 779-783.	2.2	117
156	Comparison of a simulated â€˜in-serviceâ€™ rig test with a standardised laboratory abrasion test. Surface and Coatings Technology, 2004, 177-178, 603-610.	2.2	3
157	Design criteria for wear-resistant nanostructured and glassy-metal coatings. Surface and Coatings Technology, 2004, 177-178, 317-324.	2.2	386
158	Determination of the electron temperature profile above the evaporative source in an ion plating discharge by spatially resolved optical emission spectroscopy. Thin Solid Films, 2003, 434, 157-161.	0.8	1
159	Gas scattering effects and microstructural evaluation of electron beam evaporated titanium coatings in neon and argon at different gas pressures. Vacuum, 2003, 72, 225-232.	1.6	5
160	Tribological and electrochemical performance of PVD TiN coatings on the femoral head of Tiâ€“6Alâ€“4V artificial hip joints. Surface and Coatings Technology, 2003, 163-164, 597-604.	2.2	101
161	Impact testing of duplex and non-duplex (Ti,Al)N and Crâ€“N PVD coatings. Surface and Coatings Technology, 2003, 163-164, 353-361.	2.2	74
162	An approach to elucidate the different response of PVD coatings in different tribological tests. Surface and Coatings Technology, 2003, 174-175, 891-898.	2.2	63

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163	The nanostructure and mechanical properties of PVD CrCu (N) coatings. Surface and Coatings Technology, 2003, 162, 222-227.	2.2	49
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348	Deposition of Ti-N compounds by thermionically assisted triode reactive ion plating. Thin Solid Films, 1980, 72, 541-549.	0.8	83
349	Optimization of Nanostructured Tribological Coatings. , 0, , 511-538.		0