

Yong-Xiang Leng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

170
papers

3,978
citations

34
h-index

56
g-index

209
ext. papers

4,334
ext. citations

4
avg, IF

4.92
L-index

#	Paper	IF	Citations
170	Deposition of titanium films on complex bowl-shaped workpieces using DCMS and HiPIMS. <i>Surface and Coatings Technology</i> , 2022 , 128192	4.4	2
169	Tribological properties of MnTiN films and formation of graphite-like layers in physiological solution. <i>Vacuum</i> , 2022 , 200, 111021	3.7	
168	Evaluation of the Crystal Structure and Mechanical Properties of Cu Doped TiN Films. <i>Coatings</i> , 2022 , 12, 652	2.9	1
167	The role of metal ions in the behavior of bovine serum albumin molecules under physiological environment. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 267, 120604	4.4	2
166	Effect of Ion Energy on the Microstructure and Properties of Titanium Nitride Thin Films Deposited by High Power Pulsed Magnetron Sputtering. <i>Coatings</i> , 2021 , 11, 579	2.9	1
165	Deformation behavior of TiO ₂ films deposited on NiTi shape memory alloy after tensile and water-bath heating tests. <i>Surface and Coatings Technology</i> , 2021 , 416, 127151	4.4	1
164	Influence of Ag doping on the microstructure, mechanical properties, and adhesion stability of diamond-like carbon films. <i>Surface and Coatings Technology</i> , 2021 , 405, 126542	4.4	11
163	In vitro analysis of cell compatibility of TiCuN films with different Cu contents. <i>Surface and Coatings Technology</i> , 2021 , 408, 126790	4.4	1
162	Effect of nitrogen flow on the properties of carbon nitride films deposited by electron cyclotron resonance plasma-enhanced chemical vapor deposition. <i>Vacuum</i> , 2021 , 189, 110223	3.7	3
161	Nano dual-phase CuNiTiNbCr high entropy alloy films produced by high-power pulsed magnetron sputtering. <i>Surface and Coatings Technology</i> , 2021 , 420, 127325	4.4	3
160	Mechanism of protein biofilm formation on Ag-DLC films prepared for application in joint implants. <i>Surface and Coatings Technology</i> , 2021 , 422, 127553	4.4	1
159	Microstructure and properties of Ti ₂ AlN thin film synthesized by vacuum annealing of high power pulsed magnetron sputtering deposited Ti/AlN multilayers. <i>Surface and Coatings Technology</i> , 2021 , 425, 127749	4.4	1
158	Reactive magnetron co-sputtering of Ti-xCuO coatings: Multifunctional interfaces for blood-contacting devices. <i>Materials Science and Engineering C</i> , 2020 , 116, 111198	8.3	9
157	Biocompatibility of Ti-Mn-N films with different manganese contents. <i>Surface and Coatings Technology</i> , 2020 , 403, 126354	4.4	3
156	Formation of rod-shaped wear debris and the graphitization tendency of Cu-doped hydrogenated diamond-like carbon films. <i>Diamond and Related Materials</i> , 2020 , 102, 107654	3.5	7
155	The formation of the rod-like wear debris and tribological properties of Ag-doped diamond-like carbon films fabricated by a high-power pulsed plasma vapor deposition technique. <i>Vacuum</i> , 2020 , 173, 109125	3.7	13
154	TiCu Coatings Deposited by a Combination of HiPIMS and DC Magnetron Sputtering: The Role of Vacuum Annealing on Cu Diffusion, Microstructure, and Corrosion Resistance. <i>Coatings</i> , 2020 , 10, 1064	2.9	1

153	Formation of a carbonaceous film on the surface of Cu in a bovine serum albumin solution. <i>Surface and Coatings Technology</i> , 2019 , 358, 611-616	4.4	3
152	Regulating the uniformity of DLC films in ECR plasma with negative substrate biasing. <i>Surface and Coatings Technology</i> , 2019 , 365, 15-23	4.4	3
151	Multifunctional Ti-xCu coatings for cardiovascular interfaces: Control of microstructure and surface chemistry. <i>Materials Science and Engineering C</i> , 2019 , 104, 109969	8.3	11
150	Effective Strategy for Enhancing the Performance of LiTiO Anodes in Lithium-Ion Batteries: Magnetron Sputtering Molybdenum Disulfide-Optimized Interface Architecture. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26880-26890	9.5	8
149	Effects of Adsorption of Albumin and Gamma-Globulin on the Tribological Performance of a Diamond-Like Carbon Film. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019 , 34, 1103-1108	1	3
148	Si/a-C Nanocomposites with a Multiple Buffer Structure via One-Step Magnetron Sputtering for Ultrahigh-Stability Lithium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45726-45736	9.5	6
147	Preparation and Tribological Properties of Modified Field Alloy Nanoparticles as Additives in Liquid Poly-alfa-olefin Solution. <i>Journal of Tribology</i> , 2019 , 141,	1.8	2
146	The microstructure and mechanical properties of Ti(CoCr)N films produced by DC magnetron sputtering. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1950388	1.1	2
145	The uniformity of TiN films deposited on the inner surfaces of a hemispherical workpiece by high-power pulsed magnetron sputtering. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1950329	1.1	1
144	Influence of peak current on substrate plasma sheath properties of Ti films deposited by high-power pulsed magnetron sputtering. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1940016	1.1	0
143	Structure of Al-based composite coatings prepared by thermal diffusion of the arc-ion plating Al coatings. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1940021	1.1	
142	Tailoring the texture of titanium thin films deposited by high-power pulsed magnetron sputtering. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1940017	1.1	2
141	The adhesion and clinical application of titanium oxide film on a 316 L vascular stent. <i>Surface and Coatings Technology</i> , 2019 , 363, 430-435	4.4	6
140	Optimal target sputtering mode for aluminum nitride thin film deposition by high power pulsed magnetron sputtering. <i>Vacuum</i> , 2019 , 160, 410-417	3.7	14
139	Structure and stress of Cu films prepared by high power pulsed magnetron sputtering. <i>Vacuum</i> , 2019 , 160, 226-232	3.7	7
138	Effect of grafted poly [2-methacryloyloxyethyl phosphorylcholine (MPC)] on tribological properties of ultra-high molecular weight polyethylene (UHMWPE). <i>International Journal of Modern Physics B</i> , 2019 , 33, 1940056	1.1	1
137	Wear behavior of fluorinated diamond-like carbon (DLC) film in bull serum albumin (BSA) solutions. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1940057	1.1	
136	Cu films prepared by bipolar pulsed high power impulse magnetron sputtering. <i>Vacuum</i> , 2018 , 150, 216-221	3.7	48

135	Catalytic Formation of Nitric Oxide Mediated by TiCu Coatings Provides Multifunctional Interfaces for Cardiovascular Applications. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701487	4.6	8
134	Tailoring of titanium thin film properties in high power pulsed magnetron sputtering. <i>Vacuum</i> , 2018 , 150, 144-154	3.7	16
133	Dry sliding wear behavior of Mg-SiC nanocomposites with high volume fractions of reinforcement. <i>Materials Letters</i> , 2018 , 228, 112-115	3.3	24
132	In vitro cytotoxicity evaluation of nano-carbon particles with different sp/sp ratios. <i>Materials Science and Engineering C</i> , 2017 , 75, 854-862	8.3	4
131	Effects of magnetic field strength and deposition pressure on the properties of TiN films produced by high power pulsed magnetron sputtering (HPPMS). <i>Surface and Coatings Technology</i> , 2017 , 315, 258-267	4.4	23
130	Dose-dependent cytotoxicity evaluation of graphite nanoparticles for diamond-like carbon film application on artificial joints. <i>Biomedical Materials (Bristol)</i> , 2017 , 12, 015018	3.5	8
129	Effect of a hydrogenated interface on the wear behavior of a diamond-like carbon film in a water environment. <i>Diamond and Related Materials</i> , 2017 , 74, 53-58	3.5	5
128	Microstructure and mechanical properties of Cr films deposited with different peak powers by high-power impulse magnetron sputtering. <i>Rare Metals</i> , 2017 , 1	5.5	
127	Evaluation of the Size-Dependent Cytotoxicity of DLC (Diamondlike Carbon) Wear Debris in Arthroplasty Applications. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 530-539	5.5	6
126	Plasma characteristics and properties of Cu films prepared by high power pulsed magnetron sputtering. <i>Vacuum</i> , 2017 , 135, 93-100	3.7	14
125	Characterization of adsorption and lubrication of synovial fluid proteins and HA on DLC joint bearings surface. <i>Surface and Coatings Technology</i> , 2017 , 320, 320-332	4.4	8
124	The effect of hydrogen on the tribological behavior of diamond like carbon (DLC) coatings sliding against Al ₂ O ₃ in water environment. <i>Surface and Coatings Technology</i> , 2017 , 320, 619-623	4.4	14
123	Biological responses of diamond-like carbon (DLC) films with different structures in biomedical application. <i>Materials Science and Engineering C</i> , 2016 , 69, 751-9	8.3	40
122	Effect of wafer size on the film internal stress measurement by wafer curvature method. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016 , 31, 93-99	1	12
121	Tribological behavior of diamond like carbon film sliding against CoCrMo or Al ₂ O ₃ in air and water environment. <i>Tribology International</i> , 2016 , 95, 456-461	4.9	14
120	Structure, mechanical and corrosion properties of TiN films deposited on stainless steel substrates with different inclination angles by DCMS and HPPMS. <i>Surface and Coatings Technology</i> , 2016 , 292, 54-62	4.4	30
119	Titanium interlayer between TiO ₂ film on CoCrMo implant alloy for improving adhesion: Detailed XPS and TEM analysis of the interface. <i>Surface and Coatings Technology</i> , 2015 , 277, 197-202	4.4	5
118	Wear and corrosion properties of diamond like carbon (DLC) coating on stainless steel, CoCrMo and Ti6Al4V substrates. <i>Surface and Coatings Technology</i> , 2015 , 273, 12-19	4.4	76

117	Modulate the deposition rate through changing the combination of frequency and pulse width at constant duty cycle. <i>Surface and Coatings Technology</i> , 2015 , 281, 27-34	4.4	9
116	The study of composition and surface electron structure of nitrogen-doped DLC film prepared by PIII-D. <i>Functional Materials Letters</i> , 2015 , 08, 1540015	1.2	0
115	Effect of modulation periods on the microstructure and mechanical properties of DLC/TiC multilayer films deposited by filtered cathodic vacuum arc method. <i>Applied Surface Science</i> , 2015 , 328, 319-324	6.7	35
114	Fatigue durability and corrosion resistance of TiO ₂ films on CoCrMo alloy under cyclic deformation. <i>Surface and Coatings Technology</i> , 2015 , 275, 252-259	4.4	6
113	A brief review of bio-tribology in cardiovascular devices. <i>Biosurface and Biotribology</i> , 2015 , 1, 249-262	1	15
112	In vitro cytocompatibility evaluation of hydrogenated and unhydrogenated carbon films. <i>Surface and Coatings Technology</i> , 2014 , 258, 913-920	4.4	8
111	Structure and composition study of carbon-doped titanium oxide film combined with first principles. <i>Journal of Advanced Ceramics</i> , 2014 , 3, 49-55	10.7	20
110	Carbon-Doped Titanium Oxide Films by DC Reactive Magnetron Sputtering Using CO ₂ and O ₂ as Reactive Gas. <i>Acta Metallurgica Sinica (English Letters)</i> , 2014 , 27, 239-244	2.5	7
109	The adhesion and corrosion resistance of TiD films on CoCrMo alloy fabricated by high power pulsed magnetron sputtering (HPPMS). <i>Surface and Coatings Technology</i> , 2014 , 252, 8-14	4.4	15
108	The stability of DLC film on nitrided CoCrMo alloy in phosphate buffer solution. <i>Applied Surface Science</i> , 2014 , 308, 100-105	6.7	12
107	Microstructure and Platelet Adhesion Behavior of Titanium Oxide Films Synthesized by Reactive High-Power Pulse Magnetron Sputtering. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 1837-1843	1.3	6
106	Evaluation of mechanical properties of Ti(Cr)SiC(O)N coated cemented carbide tools. <i>Vacuum</i> , 2013 , 90, 50-58	3.7	15
105	Wear and Failure Process of TiN and DLC Films Monitored With Open Circuit Potential. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 1844-1849	1.3	3
104	Tribocorrosion behavior of DLC-coated CoCrMo alloy in simulated biological environment. <i>Vacuum</i> , 2013 , 92, 39-43	3.7	54
103	Microstructure and tribological properties of Ti(Cr)SiCN coating deposited by plasma enhanced magnetron sputtering. <i>Vacuum</i> , 2013 , 89, 168-173	3.7	21
102	Research of composition and photocatalytic property of carbon-doped Ti-O films prepared by R-MS using CO ₂ gas resource. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 307, 381-384	1.2	6
101	The microstructure and mechanical properties of multilayer diamond-like carbon films with different modulation ratios. <i>Applied Surface Science</i> , 2013 , 264, 207-212	6.7	51
100	Deposition and first-principles calculation of carbon-doped titanium monoxide films. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013 , 62, 198103	0.6	

99	Enhanced endothelialization guided by fibronectin functionalized plasma polymerized acrylic acid film. <i>Materials Science and Engineering C</i> , 2012 , 32, 1025-1031	8.3	13
98	Syntheses of novel chitosan derivative with excellent solubility, anticoagulation, and antibacterial property by chemical modification. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 2641-2648	2.9	24
97	Corrosion Resistance of Ti-O Film Modified 316L Stainless Steel Coronary Stents In Vitro. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 424-428	1.6	7
96	Numerical and Experimental Study of Residual Stress of Multilayer Diamond-Like Carbon Films Prepared by Filtered Cathodic Vacuum Arc Deposition. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 2261-2266	1.3	14
95	Wear Mechanisms During Sliding of Ti64 Balls Against Bare and HFCVD Polycrystalline-Diamond-Coated WC-Co Exchangeable Inserts. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 1829-1836	1.3	2
94	Tribological performance of ultra-high-molecular-weight polyethylene sliding against DLC-coated and nitrogen ion implanted CoCrMo alloy measured in a hip joint simulator. <i>Surface and Coatings Technology</i> , 2012 , 206, 4907-4914	4.4	13
93	Effects of screen-grid bias voltage on the microstructure and properties of the ultrahigh molecular weight polyethylene (UHMWPE) modified by oxygen plasma. <i>Vacuum</i> , 2012 , 86, 1945-1951	3.7	9
92	Titanium film deposition by high-power impulse magnetron sputtering: Influence of pulse duration. <i>Vacuum</i> , 2012 , 86, 2114-2119	3.7	45
91	The Effect of a TiN Interlayer on the Tribological Properties of Diamond-like Carbon Films Deposited on 7A04 Aluminum Alloy. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 3144-3148	1.3	4
90	Effect of hydrogen flow on the properties of hydrogenated amorphous carbon films fabricated by electron cyclotron resonance plasma enhanced chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2011 , 206, 1007-1010	4.4	17
89	High frequency and low voltage plasma immersion ion implantation of nitrogen on industrial pure iron at different Rf power. <i>Surface and Coatings Technology</i> , 2011 , 206, 943-946	4.4	2
88	The structure and adhesion of hydrogenated amorphous carbon (a-C:H) films synthesized on CoCrMo alloy by plasma immersion ion implantation and deposition at different flow ratios of acetylene to argon. <i>Surface and Coatings Technology</i> , 2011 , 206, 994-998	4.4	5
87	Film characterization of titanium oxide films prepared by high-power impulse magnetron sputtering. <i>Surface and Coatings Technology</i> , 2011 , 206, 967-971	4.4	13
86	Corrosion susceptibility investigation of TiO ₂ film modified cobalt-chromium alloy (L-605) vascular stents by cyclic potentiodynamic polarization measurement. <i>Surface and Coatings Technology</i> , 2011 , 206, 893-896	4.4	16
85	Structure and Properties of Ti-O-N Films Synthesized by Reactive Magnetic Sputtering. <i>Physics Procedia</i> , 2011 , 18, 40-45		6
84	Effect of bias voltage on the properties of hydrogenated amorphous carbon films fabricated on CoCrMo alloy by electron cyclotron resonance plasma enhance chemical vapor deposition (ECR-PECVD). <i>Physics Procedia</i> , 2011 , 18, 122-127		1
83	Immobilization of selenocystamine on TiO ₂ surfaces for in situ catalytic generation of nitric oxide and potential application in intravascular stents. <i>Biomaterials</i> , 2011 , 32, 1253-63	15.6	112
82	The mechanical properties of the ultrahigh molecular weight polyethylene (UHMWPE) modified by oxygen plasma. <i>Surface and Coatings Technology</i> , 2011 , 205, 2697-2701	4.4	53

81	Tribological Properties of Hydrogenated Amorphous Carbon (a-C:H) Films on Aluminium Alloy Substrate under Different Substrate Bias Voltages. <i>Materials Science Forum</i> , 2011 , 687, 784-790	0.4	
80	Surface engineered titanium alloys for biomedical devices 2010 , 568-602		4
79	Inhibition of bacterial adherence on the surface of biliary stent materials modified with chitosan. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010 , 25, 795-798	1	5
78	Wettability and bloodcompatibility of a-C:N:H films deposited by PIII-D. <i>Surface and Coatings Technology</i> , 2010 , 204, 3039-3042	4.4	12
77	Effects of process parameters on the structure of hydrogenated amorphous carbon films processed by electron cyclotron resonance plasma enhanced chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2010 , 204, 3029-3033	4.4	5
76	Structural characterization and mechanical properties of functionalized pulsed-plasma polymerized allylamine film. <i>Surface and Coatings Technology</i> , 2010 , 204, 3047-3052	4.4	14
75	Improved hardness and corrosion resistance of iron by Ti/TiN multilayer coating and plasma nitriding duplex treatment. <i>Surface and Coatings Technology</i> , 2010 , 204, 3082-3086	4.4	15
74	Surface modification of ultra-high molecular weight polyethylene (UHMWPE) by argon plasma. <i>Applied Surface Science</i> , 2010 , 256, 3941-3945	6.7	63
73	Mechanical Properties of DLC/Ti-O Bilayer Films. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 1136-1139	3.3	4
72	Anticoagulant surface modification of titanium via layer-by-layer assembly of collagen and sulfated chitosan multilayers. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 575-84	5.4	39
71	Theoretical calculation and experimental study of influence of oxygen vacancy on the electronic structure and hemocompatibility of rutile TiO ₂ . <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 2742-2748		9
70	Biocompatibility of pure iron: In vitro assessment of degradation kinetics and cytotoxicity on endothelial cells. <i>Materials Science and Engineering C</i> , 2009 , 29, 1589-1592	8.3	131
69	Deposition of a-C:H films on UHMWPE substrate and its wear-resistance. <i>Applied Surface Science</i> , 2009 , 256, 284-288	6.7	22
68	Study on wettabilities and platelet adhesion behavior of C:H and C:N:H films prepared by DC-MFCVA. <i>Applied Surface Science</i> , 2008 , 255, 469-472	6.7	3
67	Hemocompatibility and antibacterial properties of lanthanum oxide films synthesized by dual plasma deposition. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 1027-33	5.4	20
66	Photochemical immobilization of bovine serum albumin on TiO ₂ and evaluations in vitro and in vivo. <i>Applied Surface Science</i> , 2008 , 255, 489-493	6.7	8
65	The microstructure and properties of commercial pure iron modified by plasma nitriding. <i>Solid State Ionics</i> , 2008 , 179, 971-974	3.3	18
64	Surface engineering of TiO ₂ films by photochemical immobilization of gelatin. <i>Materials Science and Engineering C</i> , 2008 , 28, 1495-1500	8.3	14

63	Biomedical Applications of Plasma and Ion Beam Processing. <i>Journal of the Vacuum Society of Japan</i> , 2008 , 51, 81-92		3
62	Behavior of human umbilical vein endothelial cells on micro-patterned amorphous hydrogenated carbon films produced by plasma immersion ion implantation & deposition and plasma etching. <i>Diamond and Related Materials</i> , 2007 , 16, 550-557	3.5	11
61	Biomedical response of tantalum oxide films deposited by DC reactive unbalanced magnetron sputtering. <i>Surface and Coatings Technology</i> , 2007 , 201, 8062-8065	4.4	34
60	Improving thromboresistance of TiO ₂ films by phosphorus-doping: Fabricating conditions, characteristics and antithrombotic behavior. <i>Surface and Coatings Technology</i> , 2007 , 201, 8066-8069	4.4	1
59	Effect of hydrogen on the behavior of cultured human umbilical vein endothelial cells (HUVEC) on titanium oxide films fabricated by plasma immersion ion implantation and deposition. <i>Surface and Coatings Technology</i> , 2007 , 201, 8140-8145	4.4	6
58	Functional inorganic films fabricated by PIII(-D) for surface modification of blood contacting biomaterials: Fabrication parameters, characteristics and antithrombotic properties. <i>Surface and Coatings Technology</i> , 2007 , 201, 6828-6832	4.4	5
57	Electrochemical behaviors of TiO ₂ films synthesized by plasma-based ion implantation and deposition in fibrinogen containing PBS solution. <i>Surface and Coatings Technology</i> , 2007 , 201, 6889-6892	4.4	3
56	Behavior of endothelial cells on micro-patterned titanium oxide fabricated by plasma immersion ion implantation and deposition and plasma etching. <i>Surface and Coatings Technology</i> , 2007 , 201, 6874-6877	4.4	15
55	Antibacterial activity of silver surface modified polyethylene terephthalate by filtered cathodic vacuum arc method. <i>Surface and Coatings Technology</i> , 2007 , 201, 6893-6896	4.4	28
54	Effect of Ar plasma etching of TiO ₂ film surfaces on biological behavior of endothelial cell. <i>Surface and Coatings Technology</i> , 2007 , 201, 6901-6905	4.4	13
53	The biomedical properties of polyethylene terephthalate surface modified by silver ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 257, 141-145	1.2	10
52	Mechanical and corrosive behavior of Ti/TiN multilayer films with different modulation periods. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 257, 411-415	1.2	23
51	Surface modification of 17-4PH stainless steel by DC plasma nitriding and titanium nitride film duplex treatment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 257, 416-419	1.2	16
50	The microstructure and properties of titanium dioxide films synthesized by unbalanced magnetron sputtering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 257, 451-454	1.2	9
49	Comparison of tribological behaviours of AlCrN and TiAlN coatings Deposited by physical vapor deposition. <i>Wear</i> , 2007 , 263, 1423-1429	3.5	142
48	Antithrombogenic investigation and biological behavior of cultured human umbilical vein endothelial cells on Ti-O film. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 20-28		4
47	Corrosion resistance and antithrombogenic behavior of La and Nd ion implanted stainless steels. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 1790-1794	2.9	8
46	The biocompatibility of the tantalum and tantalum oxide films synthesized by pulse metal vacuum arc source deposition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 242, 30-32	1.2	66

45	Studies of the composition, mechanical and electrical properties of N-doped carbon films prepared by DC-MFCAD. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 242, 324-327	1.2	2
44	Studies of the composition, tribology and wetting behavior of silicon nitride films formed by pulsed reactive closed-field unbalanced magnetron sputtering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 242, 33-36	1.2	5
43	Surface modification of coronary artery stent by TiO ₂ /TiN complex film coating prepared with plasma immersion ion implantation and deposition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 242, 18-21	1.2	25
42	Wettability and biocompatibility of nitrogen-doped hydrogenated amorphous carbon films: Effect of nitrogen. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 242, 22-25	1.2	60
41	Effect of tantalum content of titanium oxide film fabricated by magnetron sputtering on the behavior of cultured human umbilical vein endothelial cells (HUVEC). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 242, 26-29	1.2	8
40	Bloodcompatibility improvement of titanium oxide film modified by phosphorus ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 242, 15-17	1.2	8
39	In vitro platelet adhesion and activation of polyethylene terephthalate modified by acetylene plasma immersion ion implantation and deposition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 242, 12-14	1.2	15
38	Fabrication and surface characterization of pulsed reactive closed-field unbalanced magnetron sputtered amorphous silicon nitride films. <i>Surface and Coatings Technology</i> , 2006 , 200, 4144-4151	4.4	17
37	Comparative properties of titanium oxide biomaterials grown by pulsed vacuum arc plasma deposition and by unbalanced magnetron sputtering. <i>Surface and Coatings Technology</i> , 2006 , 201, 157-163	4.4	16
36	The microstructure and mechanical properties of TiN and TiO ₂ /TiN duplex films synthesized by plasma immersion ion implantation and deposition on artificial heart valve. <i>Surface and Coatings Technology</i> , 2006 , 201, 1012-1016	4.4	14
35	Blood Compatibility of Chitosan Immobilized on Poly(Ethylene Terephthalate) Surface Modified by Plasma and Ultraviolet Grafting. <i>Key Engineering Materials</i> , 2005 , 288-289, 327-330	0.4	1
34	Surface modification of polymeric materials by plasma immersion ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 237, 417-421	1.2	46
33	Composition, structure and properties of SiN _x films fabricated by pulsed reactive closed-field unbalanced magnetron sputtering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 240, 741-751	1.2	13
32	Ti-O/TiN films synthesized by plasma immersion ion implantation and deposition on 316L: Study of deformation behavior and mechanical properties. <i>Thin Solid Films</i> , 2005 , 484, 219-224	2.2	7
31	Surface characterization and blood compatibility of poly(ethylene terephthalate) modified by plasma surface grafting. <i>Surface and Coatings Technology</i> , 2005 , 196, 307-311	4.4	98
30	Nitrogen Plasma Source Ion Implantation (PSII) for Improvement of Blood-Compatibility of Silicon. <i>Key Engineering Materials</i> , 2005 , 288-289, 335-338	0.4	2
29	Spectroscopic ellipsometry investigation of amorphous carbon films with different sp ³ content: relation with protein adsorption. <i>Thin Solid Films</i> , 2004 , 455-456, 530-534	2.2	36
28	Properties of titanium oxide synthesized by pulsed metal vacuum arc deposition. <i>Surface and Coatings Technology</i> , 2004 , 176, 141-147	4.4	23

27	Structure and properties of annealed amorphous hydrogenated carbon (a-C:H) films for biomedical applications. <i>Surface and Coatings Technology</i> , 2004 , 177-178, 747-751	4.4	31
26	Bacterial repellence from polyethylene terephthalate surface modified by acetylene plasma immersion ion implantation-deposition. <i>Surface and Coatings Technology</i> , 2004 , 186, 299-304	4.4	85
25	Behavior of cultured human umbilical vein endothelial cells on titanium oxide films fabricated by plasma immersion ion implantation and deposition. <i>Surface and Coatings Technology</i> , 2004 , 186, 270-276	4.4	35
24	Inhibition of adherent platelet activation produced by TiO ₂ thin film fabricated by PIII. <i>Surface and Coatings Technology</i> , 2004 , 186, 265-269	4.4	12
23	TiN and TiO ₂ /TiN films fabricated by PIII-D for enhancement of corrosion and wear resistance of Ti-6Al-4V. <i>Surface and Coatings Technology</i> , 2004 , 186, 136-140	4.4	28
22	Effect of annealing on structure and biomedical properties of amorphous hydrogenated carbon films. <i>Surface and Coatings Technology</i> , 2004 , 186, 125-130	4.4	28
21	Synthesis of nitrogen incorporated carbon films by plasma immersion ion implantation and deposition. <i>Surface and Coatings Technology</i> , 2004 , 186, 118-124	4.4	27
20	Surface modification of biomaterials by plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2004 , 186, 218-226	4.4	94
19	The effects of amorphous carbon films deposited on polyethylene terephthalate on bacterial adhesion. <i>Biomaterials</i> , 2004 , 25, 3163-70	15.6	104
18	Haemocompatibility of hydrogenated amorphous carbon (a-C:H) films synthesized by plasma immersion ion implantation-deposition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 206, 721-725	1.2	22
17	Hemocompatibility of titanium oxide films. <i>Biomaterials</i> , 2003 , 24, 2177-87	15.6	329
16	Activation of platelets adhered on amorphous hydrogenated carbon (a-C:H) films synthesized by plasma immersion ion implantation-deposition (PIII-D). <i>Biomaterials</i> , 2003 , 24, 2821-9	15.6	137
15	Mechanical properties and platelet adhesion behavior of diamond-like carbon films synthesized by pulsed vacuum arc plasma deposition. <i>Surface Science</i> , 2003 , 531, 177-184	1.8	57
14	Structure and properties of passivating titanium oxide films fabricated by DC plasma oxidation. <i>Surface and Coatings Technology</i> , 2003 , 166, 176-182	4.4	38
13	Mechanical properties and thermomechanical stability of diamond-like carbon films synthesized by pulsed vacuum arc plasma deposition. <i>Surface and Coatings Technology</i> , 2003 , 173, 67-73	4.4	17
12	Influence of oxygen pressure on the properties and biocompatibility of titanium oxide fabricated by metal plasma ion implantation and deposition. <i>Thin Solid Films</i> , 2002 , 420-421, 408-413	2.2	36
11	Controlling synthesis of TiO ₂ /TiN gradient films by PIII. <i>Surface and Coatings Technology</i> , 2002 , 156, 208-213	4.4	5
10	Structure and properties of biomedical TiO ₂ films synthesized by dual plasma deposition. <i>Surface and Coatings Technology</i> , 2002 , 156, 295-300	4.4	38

9	Antithrombogenic investigation of surface energy and optical bandgap and hemocompatibility mechanism of Ti(Ta(+5))O ₂ thin films. <i>Biomaterials</i> , 2002 , 23, 2545-52	15.6	146
8	In vivo study of TiO ₂ thin film fabricated by PIII. <i>Surface and Coatings Technology</i> , 2002 , 156, 284-288	4.4	43
7	Blood compatibility and sp ³ /sp ² contents of diamond-like carbon (DLC) synthesized by plasma immersion ion implantation-deposition. <i>Surface and Coatings Technology</i> , 2002 , 156, 289-294	4.4	114
6	Deformation behavior of titanium nitride film prepared by plasma immersion ion implantation and deposition. <i>Surface and Coatings Technology</i> , 2002 , 156, 170-175	4.4	14
5	Hybrid elevated-temperature, low/high-voltage plasma immersion ion implantation of AISI304 stainless steel. <i>Surface and Coatings Technology</i> , 2001 , 135, 178-183	4.4	18
4	Fabrication of TiO ₂ /TiN duplex coatings on biomedical titanium alloys by metal plasma immersion ion implantation and reactive plasma nitriding/oxidation. <i>Surface and Coatings Technology</i> , 2001 , 138, 296-300	4.4	67
3	Biomedical properties of tantalum nitride films synthesized by reactive magnetron sputtering. <i>Thin Solid Films</i> , 2001 , 398-399, 471-475	2.2	99
2	Properties of titanium oxide biomaterials synthesized by titanium plasma immersion ion implantation and reactive ion oxidation. <i>Thin Solid Films</i> , 2000 , 377-378, 573-577	2.2	43
1	Shellac: A Bioactive Coating for Surface Engineering of Cardiovascular Devices. <i>Advanced Materials Interfaces</i> , 2200273	4.6	2