

Aiying Wang

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149
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151
ext. papers

3,276
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L-index

#	Paper	IF	Citations
149	Structure and mechanical properties of W incorporated diamond-like carbon films prepared by a hybrid ion beam deposition technique. <i>Carbon</i> , 2006 , 44, 1826-1832	10.4	145
148	Nonvolatile resistive switching memory based on amorphous carbon. <i>Applied Physics Letters</i> , 2010 , 96, 163505	3.4	123
147	Effect of bias voltage on growth property of Cr-DLC film prepared by linear ion beam deposition technique. <i>Vacuum</i> , 2010 , 85, 231-235	3.7	79
146	Preparation, characterization and properties of Cr-incorporated DLC films on magnesium alloy. <i>Diamond and Related Materials</i> , 2010 , 19, 1307-1315	3.5	77
145	Microstructure and property evolution of Cr-DLC films with different Cr content deposited by a hybrid beam technique. <i>Vacuum</i> , 2011 , 85, 792-797	3.7	77
144	Deposition and properties of Al-containing diamond-like carbon films by a hybrid ion beam sources. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4626-4631	5.7	76
143	Microstructure, mechanical and tribological behaviors of MoS ₂ -Ti composite coatings deposited by a hybrid HIPIMS method. <i>Surface and Coatings Technology</i> , 2013 , 228, 275-281	4.4	71
142	Improving wear resistance and corrosion resistance of AZ31 magnesium alloy by DLC/AlN/Al coating. <i>Surface and Coatings Technology</i> , 2010 , 205, 2067-2073	4.4	67
141	Graphite-like carbon films by high power impulse magnetron sputtering. <i>Applied Surface Science</i> , 2013 , 283, 321-326	6.7	60
140	Amorphous self-lubricant MoS ₂ -C sputtered coating with high hardness. <i>Applied Surface Science</i> , 2015 , 331, 66-71	6.7	54
139	Influence of interlayers on corrosion resistance of diamond-like carbon coating on magnesium alloy. <i>Surface and Coatings Technology</i> , 2010 , 204, 2193-2196	4.4	52
138	Microstructure and electrochemical properties of nitrogen-doped DLC films deposited by PECVD technique. <i>Applied Surface Science</i> , 2015 , 329, 281-286	6.7	51
137	Structural properties and growth evolution of diamond-like carbon films with different incident energies: A molecular dynamics study. <i>Applied Surface Science</i> , 2013 , 273, 670-675	6.7	51
136	Investigation of the microstructure, mechanical properties and tribological behaviors of Ti-containing diamond-like carbon films fabricated by a hybrid ion beam method. <i>Thin Solid Films</i> , 2012 , 520, 6057-6063	2.2	48
135	Enhanced Tribocorrosion Performance of Cr/GLC Multilayered Films for Marine Protective Application. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13187-13198	9.5	43
134	Influence of Substrate Negative Bias on Structure and Properties of TiN Coatings Prepared by Hybrid HIPIMS Method. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 37-42	9.1	42
133	Synthesis and SAR of azolopyrimidines as potent and selective dipeptidyl peptidase-4 (DPP4) inhibitors for type 2 diabetes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 4395-8	2.9	42

132	Synthesis, characterization and properties of the DLC films with low Cr concentration doping by a hybrid linear ion beam system. <i>Surface and Coatings Technology</i> , 2011 , 205, 2882-2886	4.4	41
131	Unusual stress behavior in W-incorporated hydrogenated amorphous carbon films. <i>Applied Physics Letters</i> , 2005 , 86, 111902	3.4	41
130	Microstructure and mechanical properties of Ti/Al co-doped DLC films: Dependence on sputtering current, source gas, and substrate bias. <i>Applied Surface Science</i> , 2017 , 410, 51-59	6.7	34
129	Synergistic effect of Cu/Cr co-doping on the wettability and mechanical properties of diamond-like carbon films. <i>Diamond and Related Materials</i> , 2016 , 68, 1-9	3.5	34
128	Ab Initio Investigation on Cu/Cr Codoped Amorphous Carbon Nanocomposite Films with Giant Residual Stress Reduction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27878-84	9.5	33
127	Microstructure and mechanical property of diamond-like carbon films with ductile copper incorporation. <i>Surface and Coatings Technology</i> , 2015 , 272, 33-38	4.4	32
126	Ti/Al co-doping induced residual stress reduction and bond structure evolution of amorphous carbon films: An experimental and ab initio study. <i>Carbon</i> , 2017 , 111, 467-475	10.4	32
125	Dense and high-stability Ti ₂ AlN MAX phase coatings prepared by the combined cathodic arc/sputter technique. <i>Applied Surface Science</i> , 2017 , 396, 1435-1442	6.7	31
124	Developing transparent copper-doped diamond-like carbon films for marine antifouling applications. <i>Diamond and Related Materials</i> , 2016 , 69, 144-151	3.5	31
123	Discovery of 6-(aminomethyl)-5-(2,4-dichlorophenyl)-7-methylimidazo[1,2-a]pyrimidine-2-carboxamides as potent, selective dipeptidyl peptidase-4 (DPP4) inhibitors. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 5620-8	8.3	31
122	Cloning and characterization of a novel dehydrin gene, SiDhn2, from <i>Saussurea involucrata</i> Kar. et Kir. <i>Plant Molecular Biology</i> , 2014 , 84, 707-18	4.6	29
121	Probing the Stress Reduction Mechanism of Diamond-Like Carbon Films by Incorporating Ti, Cr, or W Carbide-Forming Metals: Ab Initio Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6086-6093	3.8	26
120	Upgrading Chinese Shengli lignite by microwave irradiation for slurrability improvement. <i>Fuel</i> , 2015 , 159, 909-916	7.1	25
119	Preparation of Ti ₂ AlC MAX Phase Coating by DC Magnetron Sputtering Deposition and Vacuum Heat Treatment. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 1193-1197	9.1	25
118	Insights on low-friction mechanism of amorphous carbon films from reactive molecular dynamics study. <i>Tribology International</i> , 2019 , 131, 567-578	4.9	25
117	Structural properties and surface wettability of Cu-containing diamond-like carbon films prepared by a hybrid linear ion beam deposition technique. <i>Thin Solid Films</i> , 2015 , 584, 289-293	2.2	24
116	Comparison of empirical potentials for calculating structural properties of amorphous carbon films by molecular dynamics simulation. <i>Computational Materials Science</i> , 2018 , 151, 246-254	3.2	24
115	Mechanism of contact pressure-induced friction at the amorphous carbon/alpha olefin interface. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	23

114	Microstructure and properties of duplex (Ti:N)-DLC/MAO coating on magnesium alloy. <i>Applied Surface Science</i> , 2013 , 270, 519-525	6.7	22
113	A high oxidation resistance Ti ₂ AlC coating on Zirlo substrates for loss-of-coolant accident conditions. <i>Ceramics International</i> , 2019 , 45, 13912-13922	5.1	21
112	Structure and residual stress evolution of Ti/Al, Cr/Al or W/Al co-doped amorphous carbon nanocomposite films: Insights from ab initio calculations. <i>Materials and Design</i> , 2016 , 89, 1123-1129	8.1	21
111	Amperometric glucose sensor based on boron doped microcrystalline diamond film electrode with different boron doping levels. <i>RSC Advances</i> , 2014 , 4, 58349-58356	3.7	21
110	Three-dimensional hierarchical mesoporous carbon for regenerative electrochemical dopamine sensor. <i>Electrochimica Acta</i> , 2020 , 360, 137016	6.7	21
109	Influence of bias voltage on microstructure and properties of Al-containing diamond-like carbon films deposited by a hybrid ion beam system. <i>Surface and Coatings Technology</i> , 2013 , 229, 217-221	4.4	20
108	Comparative study on structure and wetting properties of diamond-like carbon films by W and Cu doping. <i>Diamond and Related Materials</i> , 2017 , 73, 278-284	3.5	20
107	Molecular dynamics simulation for the influence of incident angles of energetic carbon atoms on the structure and properties of diamond-like carbon films. <i>Thin Solid Films</i> , 2014 , 552, 136-140	2.2	20
106	Friction and Wear Mechanism of MoS ₂ /C Composite Coatings Under Atmospheric Environment. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	19
105	Tribological mechanism of diamond-like carbon films induced by Ti/Al co-doping. <i>Surface and Coatings Technology</i> , 2018 , 342, 167-177	4.4	19
104	Microstructure evolution of VAlC coatings synthesized from a V ₂ AlC compound target after vacuum annealing treatment. <i>Journal of Alloys and Compounds</i> , 2016 , 661, 476-482	5.7	19
103	Structure and elastic recovery of Cr _{1-x} H films deposited by a reactive magnetron sputtering technique. <i>Applied Surface Science</i> , 2010 , 257, 244-248	6.7	19
102	Properties of transparent conducting ZnO : Al oxide thin films and their application for molecular organic light-emitting diodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2004 , 15, 169-174	2.1	18
101	Insights into friction dependence of carbon nanoparticles as oil-based lubricant additive at amorphous carbon interface. <i>Carbon</i> , 2019 , 150, 465-474	10.4	17
100	Ab Initio Study of Interfacial Structure Transformation of Amorphous Carbon Catalyzed by Ti, Cr, and W Transition Layers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41115-41119	9.5	17
99	Physicochemical characterizations for improving the slurryability of Philippine lignite upgraded through microwave irradiation. <i>RSC Advances</i> , 2015 , 5, 14690-14696	3.7	17
98	Effect of Negatively Charged Ions on the Formation of Microarc Oxidation Coating on 2024 Aluminium Alloy. <i>Journal of Materials Science and Technology</i> , 2012 , 28, 707-712	9.1	17
97	Corrosion behavior of diamond-like carbon film induced by Al/Ti co-doping. <i>Applied Surface Science</i> , 2020 , 509, 144877	6.7	17

96	Microstructure and property evolution of diamond-like carbon films co-doped by Al and Ti with different ratios. <i>Surface and Coatings Technology</i> , 2019 , 361, 83-90	4.4	16
95	Enhanced tribological and corrosion properties of multilayer ta-C films via alternating sp ³ content. <i>Surface and Coatings Technology</i> , 2019 , 374, 317-326	4.4	16
94	Microstructure and properties of (Cr:N)-DLC films deposited by a hybrid beam technique. <i>Surface and Coatings Technology</i> , 2015 , 261, 398-403	4.4	16
93	Interface-induced degradation of amorphous carbon films/stainless steel bipolar plates in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2020 , 469, 228269	8.9	16
92	Structural design of Cr/GLC films for high tribological performance in artificial seawater: Cr/GLC ratio and multilayer structure. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1273-1280	9.1	16
91	Stress reduction mechanism of diamond-like carbon films incorporated with different Cu contents. <i>Thin Solid Films</i> , 2017 , 640, 45-51	2.2	16
90	Adhesion, biological corrosion resistance and biotribological properties of carbon films deposited on MAO coated Ti substrates. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 101, 103448	4.1	16
89	Role of deposition temperature on the mechanical and tribological properties of Cu and Cr co-doped diamond-like carbon films. <i>Thin Solid Films</i> , 2019 , 678, 16-25	2.2	15
88	A Hierarchically Porous Carbon Fabric for Highly Sensitive Electrochemical Sensors. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700608	3.5	15
87	Effect of metal doping on structural characteristics of amorphous carbon system: A first-principles study. <i>Thin Solid Films</i> , 2016 , 607, 67-72	2.2	15
86	Stress reduction of diamond-like carbon by Si incorporation: A molecular dynamics study. <i>Surface and Coatings Technology</i> , 2013 , 228, S190-S193	4.4	15
85	Corrosion resistance of amorphous carbon film in 3.5wt% NaCl solution for marine application. <i>Electrochimica Acta</i> , 2020 , 346, 136282	6.7	13
84	Corrosion resistance of composite coating on magnesium alloy using combined microarc oxidation and inorganic sealing. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, s760-s763	3.3	13
83	Synthesis, SAR, and atropisomerism of imidazolopyrimidine DPP4 inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 6273-6	2.9	13
82	Comparative study on protective properties of CrN coatings on the ABS substrate by DCMS and HiPIMS techniques. <i>Surface and Coatings Technology</i> , 2020 , 394, 125890	4.4	13
81	Erosion behavior and failure mechanism of Ti/TiAlN multilayer coatings eroded by silica sand and glass beads. <i>Journal of Materials Science and Technology</i> , 2021 , 80, 179-190	9.1	13
80	Tribological properties of Ti-doped diamond-like carbon coatings under dry friction and PAO oil lubrication. <i>Surface and Interface Analysis</i> , 2019 , 51, 361-370	1.5	13
79	The scaling behavior and mechanism of Ti ₂ AlC MAX phase coatings in air and pure water vapor. <i>Surface and Coatings Technology</i> , 2015 , 272, 380-386	4.4	12

78	Fabrication and mechanical properties of high purity of Cr ₂ AlC coatings by adjustable Al contents. <i>Journal of Alloys and Compounds</i> , 2018 , 753, 11-17	5.7	12
77	Membrane Damage Induced by Supercritical Carbon Dioxide in <i>Rhodotorula mucilaginosa</i> . <i>Indian Journal of Microbiology</i> , 2013 , 53, 352-8	3.7	12
76	Fabrication of Cr coating on AZ31 magnesium alloy by magnetron sputtering. <i>Transactions of Nonferrous Metals Society of China</i> , 2008 , 18, s329-s333	3.3	12
75	Tribo-Induced Structural Transformation and Lubricant Dissociation at Amorphous Carbon/Alpha Olefin Interface. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1800157	3.5	12
74	Reducing the self-healing temperature of Ti ₂ AlC MAX phase coating by substituting Al with Sn. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 197-201	6	12
73	Atomistic understanding on friction behavior of amorphous carbon films induced by surface hydrogenated modification. <i>Tribology International</i> , 2019 , 136, 446-454	4.9	11
72	High-performance Cr ₂ AlC MAX phase coatings: Oxidation mechanisms in the 900–1100°C temperature range. <i>Corrosion Science</i> , 2020 , 167, 108492	6.8	11
71	Hard yet tough V-Al-C-N nanocomposite coatings: Microstructure, mechanical and tribological properties. <i>Surface and Coatings Technology</i> , 2016 , 304, 553-559	4.4	11
70	Piezoresistive behavior of amorphous carbon films for high performance MEMS force sensors. <i>Applied Physics Letters</i> , 2019 , 114, 253502	3.4	11
69	De Novo Transcriptome Sequencing and the Hypothetical Cold Response Mode of <i>Saussurea involucreta</i> in Extreme Cold Environments. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	11
68	Role of the carbon source in the transformation of amorphous carbon to graphene during rapid thermal processing. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 9384-9390	3.6	10
67	Microstructure and tribological behavior of self-lubricating (Si ₃ N ₄)-DLC/MAO coatings on AZ80 magnesium substrate. <i>Acta Metallurgica Sinica (English Letters)</i> , 2013 , 26, 693-698	2.5	10
66	Surface microstructurization of a sputtered magnesium thin film via a solution immersion route. <i>Materials Letters</i> , 2010 , 64, 475-478	3.3	10
65	Diffusion-controlled intercalation approach to synthesize the Ti ₂ AlC MAX phase coatings at low temperature of 550 °C. <i>Applied Surface Science</i> , 2020 , 502, 144130	6.7	10
64	Anti-wear Cr-V-N coating via V solid solution: Microstructure, mechanical and tribological properties. <i>Surface and Coatings Technology</i> , 2020 , 397, 126048	4.4	9
63	Structural and mechanism study on enhanced thermal stability of hydrogenated diamond-like carbon films doped with Si/O. <i>Diamond and Related Materials</i> , 2020 , 108, 107923	3.5	9
62	Temperature induced superhard CrB ₂ coatings with preferred (001) orientation deposited by DC magnetron sputtering technique. <i>Surface and Coatings Technology</i> , 2017 , 322, 134-140	4.4	8
61	Transformation of amorphous carbon to graphene on low-index Ni surfaces during rapid thermal processing: a reactive molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2271-2275	3.6	8

60	Ab initio molecular dynamics simulation on stress reduction mechanism of Ti-doped diamond-like carbon films. <i>Thin Solid Films</i> , 2015 , 584, 204-207	2.2	8
59	Residual Compressive Stress Enabled 2D-to-3D Junction Transformation in Amorphous Carbon Films for Stretchable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45549-45557	9.5	8
58	Bactericidal abilities and in vitro properties of diamond-like carbon films deposited onto MAO-treated titanium. <i>Materials Letters</i> , 2019 , 244, 155-158	3.3	8
57	Role of unsaturated hydrocarbon lubricant on the friction behavior of amorphous carbon films from reactive molecular dynamics study. <i>Computational Materials Science</i> , 2019 , 161, 1-9	3.2	8
56	Dense nanocolumnar structure induced anti-corrosion CrB ₂ coating with (0 0 1) preferred orientation deposited by DC magnetron sputtering. <i>Materials Letters</i> , 2019 , 240, 180-184	3.3	8
55	Comparative study on oxidation behavior of Ti ₂ AlN coatings in air and pure steam. <i>Ceramics International</i> , 2019 , 45, 9260-9270	5.1	7
54	Discharge state transition and cathode fall thickness evolution during chromium HiPIMS discharge. <i>Physics of Plasmas</i> , 2017 , 24, 083507	2.1	7
53	MEMS piezo-resistive force sensor based on DC sputtering deposited amorphous carbon films. <i>Sensors and Actuators A: Physical</i> , 2020 , 303, 111700	3.9	7
52	Transforming the amorphous Ti-Al-C coatings to high-purity Ti ₂ AlC MAX phase coatings by prolonged annealing at 550 °C. <i>Materials Letters</i> , 2020 , 261, 127160	3.3	7
51	Bulk-limited electrical behaviors in metal/hydrogenated diamond-like carbon/metal devices. <i>Applied Physics Letters</i> , 2018 , 112, 033502	3.4	6
50	Effect of substrate bias on microstructure and tribological performance of GLC films using hybrid HIPIMS technique. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, s740-s744	3.3	6
49	Growth properties and resistive switching effects of diamond-like carbon films deposited using a linear ion source. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 031207	1.3	6
48	Chemical Bond Structure of Metal-Incorporated Carbon System. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013 , 10, 1688-1692	0.3	6
47	Fundamental understanding on low-friction mechanisms at amorphous carbon interface from reactive molecular dynamics simulation. <i>Carbon</i> , 2020 , 170, 621-629	10.4	6
46	Cr/GLC multilayered coating in simulated deep-sea environment: Corrosion behavior and growth defect evolution. <i>Corrosion Science</i> , 2021 , 188, 109528	6.8	6
45	Stress reduction of Cu-doped diamond-like carbon films from ab initio calculations. <i>AIP Advances</i> , 2015 , 5, 017111	1.5	5
44	Enhancing slurryabilities of five lignites from Inner Mongolia of China by microwave irradiation. <i>Drying Technology</i> , 2018 , 36, 100-108	2.6	5
43	Incorporated W Roles on Microstructure and Properties of W-C:H Films by a Hybrid Linear Ion Beam Systems. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-8	3.2	5

42	Understanding the effect of Al/Ti ratio on the tribocorrosion performance of Al/Ti co-doped diamond-like carbon films for marine applications. <i>Surface and Coatings Technology</i> , 2020 , 402, 126347	4.4	5
41	. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 1215-1222	1.3	5
40	Influence of deposition temperature on the structure, optical and electrical properties of a-C films by DCMS. <i>Applied Surface Science</i> , 2020 , 503, 144310	6.7	5
39	Role of dimple textured surface on tribological properties of Ti/Al-codoped diamond-like carbon films. <i>Thin Solid Films</i> , 2020 , 708, 138136	2.2	4
38	Fast Synthesis of Graphene with a Desired Structure via Ni-Catalyzed Transformation of Amorphous Carbon during Rapid Thermal Processing: Insights from Molecular Dynamics and Experimental Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27834-27842	3.8	4
37	The effect of substrate bias on the characteristics of CrN coatings deposited by DC-superimposed HiPIMS system. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1744032	1.1	4
36	Characterization and properties of duplex a-C:H/MAO coatings on magnesium alloy using combined microarc oxidation and hybrid magnetron sputtering. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015 , 30, 822-826	1	4
35	Stress reduction dependent on incident angles of carbon ions in ultrathin tetrahedral amorphous carbon films. <i>Applied Physics Letters</i> , 2014 , 104, 141908	3.4	4
34	Crystalline transformation from ta-C to graphene induced by a catalytic Ni layer during annealing. <i>Diamond and Related Materials</i> , 2020 , 101, 107556	3.5	4
33	Protective Geopolymer Coatings Containing Multi-Componential Precursors: Preparation and Basic Properties Characterization. <i>Materials</i> , 2020 , 13,	3.5	4
32	Enhanced mechanical and tribological properties of V-Al-C coatings via increasing columnar boundaries. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 186-195	5.7	4
31	SiFBA5, a cold-responsive factor from <i>Saussurea involucreta</i> promotes cold resilience and biomass increase in transgenic tomato plants under cold stress. <i>BMC Plant Biology</i> , 2021 , 21, 75	5.3	4
30	Tribological mechanism of (Cr, V)N coating in the temperature range of 500-900°C. <i>Tribology International</i> , 2021 , 159, 106952	4.9	4
29	Corrosion mechanism of Ti ₂ AlC MAX phase coatings under the synergistic effects of water vapor and solid NaCl at 600 °C. <i>Corrosion Science</i> , 2021 , 192, 109788	6.8	4
28	Movement of luminous group spots on target and size modification of micro-particles during cathodic vacuum arc deposition. <i>Vacuum</i> , 2019 , 164, 381-389	3.7	3
27	The influence of superimposed DC current on electrical and spectroscopic characteristics of HiPIMS discharge. <i>AIP Advances</i> , 2018 , 8, 015132	1.5	3
26	Thickness dependence of properties and structure of ultrathin tetrahedral amorphous carbon films: A molecular dynamics simulation. <i>Surface and Coatings Technology</i> , 2014 , 258, 938-942	4.4	3
25	Nanostructured Carbon Materials. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-2	3.2	3

24	Spectroscopic investigation on the near-substrate plasma characteristics of chromium HiPIMS in low density discharge mode. <i>Plasma Sources Science and Technology</i> , 2020 , 29, 015013	3.5	3
23	Exploring the tribological behavior of Ti/Al-DLC/PAO/graphene oxide nanocomposite system. <i>Ceramics International</i> , 2021 , 47, 11052-11062	5.1	3
22	Tailored electrochemical behavior of ta-C film by glancing angle deposition. <i>Applied Surface Science</i> , 2020 , 516, 146115	6.7	3
21	Cooling rate dependence of Ni-catalyzed transformation of amorphous carbon into graphene in rapid thermal processing: An experimental and reactive molecular dynamics study. <i>Applied Surface Science</i> , 2020 , 529, 147042	6.7	2
20	First principles investigation of interaction between impurity atom (Si, Ge, Sn) and carbon atom in diamond-like carbon system. <i>Thin Solid Films</i> , 2012 , 520, 6064-6067	2.2	2
19	Two-dimensional simulations of temperature fields of the reactor wall during hot-filament CVD diamond film growth over a large area. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2004 , 12, 325-335	2	2
18	Amorphous carbon to graphene: Carbon diffusion via nickel catalyst. <i>Materials Letters</i> , 2020 , 278, 128468	3	2
17	Insights into Superlow Friction and Instability of Hydrogenated Amorphous Carbon/Fluid Nanocomposite Interface. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35173-35186	9.5	2
16	One-step plasma nitriding synthesis of NixN/NF (x=3, 4) for efficient hydrogen evolution. <i>Applied Surface Science</i> , 2021 , 561, 149972	6.7	2
15	Insights on high temperature friction mechanism of multilayer ta-C films. <i>Journal of Materials Science and Technology</i> , 2022 , 97, 29-37	9.1	2
14	Stress measurement at the interface between a Si substrate and diamond-like carbon/Cr/W films by the electronic backscatter diffraction method. <i>Applied Physics Express</i> , 2016 , 9, 025504	2.4	1
13	Functional Carbon Nanomaterials. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-2	3.2	1
12	Influence of quantity and energy of the particles in gas phase on nucleation of the HFCVD of diamond films. <i>Materials Letters</i> , 2001 , 48, 8-14	3.3	1
11	Micro Pressure Sensors Based on Ultra-thin Amorphous Carbon Film as both Sensitive and Structural Components 2019 ,		1
10	Phase orientation improved the corrosion resistance and conductivity of Cr2AlC coatings for metal bipolar plates. <i>Journal of Materials Science and Technology</i> , 2022 , 105, 36-44	9.1	1
9	Self-supporting Ultrathin DLC/Si3N4/SiO2 for Micro-pressure Sensor. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	0
8	Sandwich-zigzag structure enhanced erosion resistance of TiN coatings. <i>Materials Letters</i> , 2022 , 310, 131496	3.3	0
7	Long-term tribocorrosion resistance and failure tolerable of multilayer carbon-based coatings. <i>Friction</i> , 1	5.6	0

- 6 Controlling the compactness and sp² clusters to reduce interfacial damage of amorphous carbon/316L bipolar plates in PEMFCs. *International Journal of Hydrogen Energy*, **2022**, 47, 11622-11632 6.7 ○
- 5 Controllable defect engineering to enhance the corrosion resistance of Cr/GLC multilayered coating for deep-sea applications. *Corrosion Science*, **2022**, 199, 110175 6.8 ○
- 4 Accelerated deterioration mechanism of 316L stainless steel in NaCl solution under the intermittent tribocorrosion process. *Journal of Materials Science and Technology*, **2022**, 121, 67-79 9.1 ○
- 3 Balancing the corrosion resistance and conductivity of Cr-Al-C coatings via annealing treatment for metal bipolar plates. *Applied Surface Science*, **2022**, 597, 153670 6.7 ○
- 2 Influence of Nitrogen Partial Pressure on the Microstructure and Properties of TiN Coatings. *Advanced Materials Research*, **2014**, 1049-1050, 89-93 0.5
- 1 Effect of Substrate Bias on Structure and Properties of W incorporated Diamond-like Carbon Films. *Materials Research Society Symposia Proceedings*, **2004**, 821, 7