

Erjia Liu

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187
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5,479
ext. citations

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5.8
L-index

#	Paper	IF	Citations
176	Anisotropy and heterogeneity of microstructure and mechanical properties in metal additive manufacturing: A critical review. <i>Materials and Design</i> , 2018 , 139, 565-586	8.1	548
175	Development of sol-gel icephobic coatings: effect of surface roughness and surface energy. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 20685-92	9.5	118
174	Calibration procedures for frictional measurements with a lateral force microscope. <i>Wear</i> , 1996 , 192, 141-150	3.5	111
173	Release of theophylline from polymer blend hydrogels. <i>International Journal of Pharmaceutics</i> , 2005 , 298, 117-25	6.5	103
172	EIS capacitance diagnosis of nanoporosity effect on the corrosion protection of DLC films. <i>Diamond and Related Materials</i> , 2002 , 11, 160-168	3.5	97
171	Ni doped ZnO thin films for diluted magnetic semiconductor materials. <i>Current Applied Physics</i> , 2008 , 8, 408-411	2.6	78
170	Comparative study between macrotribology and nanotribology. <i>Journal of Applied Physics</i> , 1998 , 84, 4859-4865	2.5	77
169	Glassy carbon electrode modified by conductive polyaniline coating for determination of trace lead and cadmium ions in acetate buffer solution. <i>Thin Solid Films</i> , 2011 , 519, 5285-5289	2.2	74
168	Stripping Voltammetric Analysis of Heavy Metals at Nitrogen Doped Diamond-Like Carbon Film Electrodes. <i>Electroanalysis</i> , 2002 , 14, 1294-1298	3	70
167	Process parameter optimization and mechanical properties for additively manufactured stainless steel 316L parts by selective electron beam melting. <i>Materials and Design</i> , 2018 , 147, 157-166	8.1	69
166	Transport of vacuum arc plasma through an off-plane double bend filtering duct. <i>Thin Solid Films</i> , 1999 , 345, 1-6	2.2	67
165	Properties of nitrogen doped tetrahedral amorphous carbon films prepared by filtered cathodic vacuum arc technique. <i>Journal of Non-Crystalline Solids</i> , 1998 , 242, 40-48	3.9	64
164	Cyclic Voltammetry Studies of Sputtered Nitrogen Doped Diamond-Like Carbon Film Electrodes. <i>Electroanalysis</i> , 2002 , 14, 1110-1115	3	64
163	Corrosion behavior of nitrogen doped diamond-like carbon thin films in NaCl solutions. <i>Corrosion Science</i> , 2009 , 51, 2158-2164	6.8	63
162	Mechanical and tribological properties of epoxy matrix composites modified with microencapsulated mixture of wax lubricant and multi-walled carbon nanotubes. <i>Friction</i> , 2013 , 1, 341-349	5.6	54
161	A fundamental study of chromium deposition and poisoning at (La _{0.8} Sr _{0.2}) _{0.95} (Mn _{1-x} Cox)O _{3-δ} (0.0 \leq x \leq 1.0) cathodes of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 805-821	6.7	51
160	Phase transformations in plasma sprayed hydroxyapatite coatings. <i>Scripta Materialia</i> , 1999 , 42, 103-109	5.6	51

159	Ultraviolet and visible Raman studies of nitrogenated tetrahedral amorphous carbon films. <i>Thin Solid Films</i> , 2000 , 366, 169-174	2.2	50
158	Effects of working gas on wear and corrosion resistances of cold sprayed Ti-6Al-4V coatings. <i>Surface and Coatings Technology</i> , 2016 , 302, 1-12	4.4	50
157	Linear sweep anodic stripping voltammetry of heavy metals from nitrogen doped tetrahedral amorphous carbon thin films. <i>Electrochimica Acta</i> , 2009 , 54, 2890-2898	6.7	49
156	Bismuth/Polyaniline/Glassy Carbon Electrodes Prepared with Different Protocols for Stripping Voltammetric Determination of Trace Cd and Pb in Solutions Having Surfactants. <i>Electroanalysis</i> , 2010 , 22, 209-215	3	49
155	Tribological performance of silicone composite coatings filled with wax-containing microcapsules. <i>Wear</i> , 2012 , 296, 575-582	3.5	48
154	Nitrogenated diamond-like carbon films for metal tracing. <i>Surface and Coatings Technology</i> , 2005 , 198, 189-193	4.4	48
153	Low temperature and deformation-free bonding of PMMA microfluidic devices with stable hydrophilicity via oxygen plasma treatment and PVA coating. <i>RSC Advances</i> , 2015 , 5, 8377-8388	3.7	46
152	Carbide precipitation characteristics in additive manufacturing of Co-Cr-Mo alloy via selective electron beam melting. <i>Scripta Materialia</i> , 2018 , 143, 117-121	5.6	45
151	Effect of coating thickness on microstructure, mechanical properties and fracture behaviour of cold sprayed Ti6Al4V coatings on Ti6Al4V substrates. <i>Surface and Coatings Technology</i> , 2018 , 349, 303-317	4.4	45
150	Effect of substrate surface condition on fatigue behavior of cold sprayed Ti6Al4V coatings. <i>Surface and Coatings Technology</i> , 2017 , 320, 452-457	4.4	44
149	Effects of Traverse Scanning Speed of Spray Nozzle on the Microstructure and Mechanical Properties of Cold-Sprayed Ti6Al4V Coatings. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 1484-1497	2.5	44
148	Electrochemical performance of diamond-like carbon thin films. <i>Thin Solid Films</i> , 2008 , 516, 5201-5205	2.2	44
147	Impedance study on electrochemical characteristics of sputtered DLC films. <i>Thin Solid Films</i> , 2003 , 426, 258-264	2.2	44
146	Ice nucleation behaviour on sol-gel coatings with different surface energy and roughness. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21492-500	3.6	43
145	Glassy carbon electrode coated with polyaniline-functionalized carbon nanotubes for detection of trace lead in acetate solution. <i>Thin Solid Films</i> , 2011 , 519, 5280-5284	2.2	43
144	Understanding the microstructural evolution of cold sprayed Ti-6Al-4V coatings on Ti-6Al-4V substrates. <i>Applied Surface Science</i> , 2018 , 459, 492-504	6.7	41
143	Effect of lattice mismatch on chemical ordering of epitaxial L10 FePt films. <i>Journal of Applied Physics</i> , 2005 , 97, 10H303	2.5	41
142	Deposition characteristics of cold sprayed Inconel 718 particles on Inconel 718 substrates with different surface conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 720, 75-84	5.3	40

141	A review on the importance of surface coating of micro/nano-mold in micro/nano-molding processes. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 013002	2	40
140	Non-enzymatic hydrogen peroxide detection using gold nanoclusters-modified phosphorus incorporated tetrahedral amorphous carbon electrodes. <i>Electrochimica Acta</i> , 2010 , 55, 1971-1977	6.7	40
139	Electron field emission properties of tetrahedral amorphous carbon films. <i>Journal of Applied Physics</i> , 1999 , 85, 6816-6821	2.5	40
138	Direct electrochemical response of glucose at nickel-doped diamond like carbon thin film electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 627, 51-57	4.1	39
137	Adhesion, tribological and corrosion properties of cold-sprayed CoCrMo and Ti6Al4V coatings on 6061-T651 Al alloy. <i>Surface and Coatings Technology</i> , 2017 , 326, 291-298	4.4	38
136	Reduced graphene oxide decorated with tin nanoparticles through electrodeposition for simultaneous determination of trace heavy metals. <i>Electrochimica Acta</i> , 2015 , 174, 207-214	6.7	38
135	Tribological behaviour of different diamond-like carbon materials. <i>Surface and Coatings Technology</i> , 1998 , 106, 72-80	4.4	38
134	Micro-Raman spectroscopic analysis of tetrahedral amorphous carbon films deposited under varying conditions. <i>Journal of Applied Physics</i> , 1999 , 86, 6078-6083	2.5	38
133	The effect of nitrogen on the mechanical properties of tetrahedral amorphous carbon films deposited with a filtered cathodic vacuum arc. <i>Surface and Coatings Technology</i> , 1999 , 120-121, 601-606	4.4	38
132	Porous polyaniline/carbon nanotube composite electrode for supercapacitors with outstanding rate capability and cyclic stability. <i>Composites Part B: Engineering</i> , 2019 , 165, 671-678	10	38
131	Mechanical, tribological and biological properties of novel 45S5 Bioglass composites reinforced with in situ reduced graphene oxide. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 65, 77-89	4.1	37
130	Glassy carbon electrode modified by graphene-gold nanocomposite coating for detection of trace lead ions in acetate buffer solution. <i>Thin Solid Films</i> , 2015 , 584, 85-89	2.2	37
129	Structure and corrosion behavior of platinum/ruthenium/nitrogen doped diamondlike carbon thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 013506	2.5	37
128	Microstructure and Wear Properties of Electron Beam Melted Ti-6Al-4V Parts: A Comparison Study against As-Cast Form. <i>Metals</i> , 2016 , 6, 284	2.3	37
127	Graphene ultrathin film electrodes modified with bismuth nanoparticles and polyaniline porous layers for detection of lead and cadmium ions in acetate buffer solutions. <i>Thin Solid Films</i> , 2013 , 544, 362-367	2.2	35
126	Anti-sticking behavior of DLC-coated silicon micro-molds. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 105025	2	35
125	Micro-DSC and rheological studies of interactions between methylcellulose and surfactants. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6410-6	3.4	35
124	Cyclic Voltammetric Behavior of Nitrogen-Doped Tetrahedral Amorphous Carbon Films Deposited by Filtered Cathodic Vacuum Arc. <i>Electroanalysis</i> , 2008 , 20, 1851-1856	3	35

123	Effects of SDS on the sol-gel transition of methylcellulose in water. <i>Polymer</i> , 2006 , 47, 1372-1378	3.9	35
122	Residual stresses in single particle splat of metal cold spray process [Numerical simulation and direct measurement. <i>Materials Letters</i> , 2018 , 230, 152-156	3.3	33
121	Effects of rapid thermal annealing on structural, magnetic and optical properties of Ni-doped ZnO thin films. <i>Current Applied Physics</i> , 2012 , 12, 834-840	2.6	32
120	Structure, scratch resistance and corrosion performance of nickel doped diamond-like carbon thin films. <i>Surface and Coatings Technology</i> , 2010 , 204, 3125-3130	4.4	32
119	Residual stresses of diamond and diamondlike carbon films. <i>Journal of Applied Physics</i> , 2005 , 98, 073515	2.5	32
118	Nitrogenated tetrahedral amorphous carbon films prepared by ion-beam-assisted filtered cathodic vacuum arc technique for solar cells application. <i>Applied Physics Letters</i> , 1998 , 73, 2473-2475	3.4	32
117	Influence of humidity on the friction of diamond and diamond-like carbon materials. <i>Tribology International</i> , 2007 , 40, 216-219	4.9	31
116	Wear and Corrosion Resistance of Thick Ti-6Al-4V Coating Deposited on Ti-6Al-4V Substrate via High-Pressure Cold Spray. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 1393-1407	2.5	30
115	Synthesis and characterization of iron-based alloy nanoparticles for magnetorheological fluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 2030-2038	2.8	30
114	Replication performance of Si-N-DLC-coated Si micro-molds in micro-hot-embossing. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 045007	2	27
113	Post-Process Treatments on Supersonic Cold Sprayed Coatings: A Review. <i>Coatings</i> , 2020 , 10, 123	2.9	27
112	Improvement of densification and microstructure of ASTM A131 EH36 steel samples additively manufactured via selective laser melting with varying laser scanning speed and hatch spacing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 300-310	5.3	27
111	Carbon nanotube/polypropylene composite particles for microwave welding. <i>Journal of Applied Polymer Science</i> , 2012 , 126, E283-E289	2.9	25
110	Wear behaviour of martensitic NiTi shape memory alloy under ball-on-disk sliding tests. <i>Tribology International</i> , 2013 , 66, 219-224	4.9	25
109	Performance and stability of La _{0.8} Sr _{0.2} MnO ₃ cathode promoted with palladium based catalysts in solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4781-4787	5.7	25
108	Effects of substrate temperature on the properties of tetrahedral amorphous carbon films. <i>Thin Solid Films</i> , 1999 , 346, 155-161	2.2	25
107	A highly bendable transparent electrode for organic electrochromic devices. <i>Organic Electronics</i> , 2019 , 66, 86-93	3.5	25
106	Mechanical and tribological properties of Zr-based bulk metallic glass for sports applications. <i>Materials and Design</i> , 2016 , 92, 667-673	8.1	24

105	Performance and carbon deposition over Pd nanoparticle catalyst promoted Ni/GDC anode of SOFCs in methane, methanol and ethanol fuels. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15301-15310	6.7	24
104	Modification of tetrahedral amorphous carbon film by concurrent Ar ion bombardment during deposition. <i>Surface and Coatings Technology</i> , 1998 , 105, 91-96	4.4	24
103	Anisotropic microstructure and mechanical properties of additively manufactured CoCrMo alloy using selective electron beam melting for orthopedic implants. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 765, 138270	5.3	23
102	Mechanical and Tribological Properties of Cold-Sprayed Ti Coatings on Ti-6Al-4V Substrates. <i>Journal of Thermal Spray Technology</i> , 2016 , 25, 715-724	2.5	23
101	Improving microstructural and mechanical characteristics of cold-sprayed Inconel 718 deposits via local induction heat treatment. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 1268-1279	5.7	22
100	Effects of deep cryogenic treatment on mechanical and tribological properties of AISI D3 tool steel. <i>Friction</i> , 2015 , 3, 234-242	5.6	22
99	Graphene ultrathin film electrode for detection of lead ions in acetate buffer solution. <i>Talanta</i> , 2013 , 103, 47-55	6.2	22
98	Investigation of structure, adhesion strength, wear performance and corrosion behavior of platinum/ruthenium/nitrogen doped diamond-like carbon thin films with respect to film thickness. <i>Materials Chemistry and Physics</i> , 2011 , 126, 220-226	4.4	22
97	Influence of Particle Velocity When Propelled Using N2 or N2-He Mixed Gas on the Properties of Cold-Sprayed Ti6Al4V Coatings. <i>Coatings</i> , 2018 , 8, 327	2.9	22
96	Thermal decomposition kinetics of multiwalled carbon nanotube/polypropylene nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 117, 63-71	4.1	21
95	Thermal, mechanical and tribological properties of polycarbonate/acrylonitrile-butadiene-styrene blends. <i>Journal of Polymer Engineering</i> , 2013 , 33, 535-543	1.4	21
94	Tribological behaviour and internal stress of diamond coating deposited with a stationary d.c. plasma jet. <i>Surface and Coatings Technology</i> , 1996 , 80, 264-270	4.4	21
93	Tribological Behavior of Polyurethane Immersed in Acidic Solution. <i>Tribology Transactions</i> , 2012 , 55, 401-408	4.8	20
92	Characterization of ta-C films prepared by a two-step filtered vacuum arc deposition technique. <i>Surface and Coatings Technology</i> , 2000 , 127, 246-250	4.4	20
91	Electrical behaviour of metal/tetrahedral amorphous carbon/metal structure. <i>Solid-State Electronics</i> , 1999 , 43, 427-434	1.7	20
90	High rate deposition of diamond-like carbon films by magnetically enhanced plasma CVD. <i>Thin Solid Films</i> , 1999 , 355-356, 146-150	2.2	20
89	Structural properties of amorphous silicon-carbon films deposited by the filtered cathodic vacuum arc technique. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 5111-5118	1.8	20
88	Tribological behavior of Zr-based bulk metallic glass sliding against polymer, ceramic, and metal materials. <i>Intermetallics</i> , 2015 , 61, 1-8	3.5	19

87	Dependence of microstructure and magnetic properties of FePt films on Cr ₉₀ Ru ₁₀ underlayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 285, 443-449	2.8	19
86	Graphene thin film electrodes synthesized by thermally treating co-sputtered nickel/carbon mixed layers for detection of trace lead, cadmium and copper ions in acetate buffer solutions. <i>Thin Solid Films</i> , 2013 , 544, 341-347	2.2	18
85	Effect of substrate temperature on corrosion performance of nitrogen doped amorphous carbon thin films in NaCl solution. <i>Thin Solid Films</i> , 2009 , 517, 4762-4766	2.2	18
84	Influence of carbon sputtering power on structure, corrosion resistance, adhesion strength and wear resistance of platinum/ruthenium/nitrogen doped diamond-like carbon thin films. <i>Surface and Coatings Technology</i> , 2010 , 205, 853-860	4.4	18
83	Structural and magnetic properties of nanostructured FePt/MgO granular films. <i>Thin Solid Films</i> , 2005 , 474, 141-145	2.2	18
82	L10 FePt films epitaxially grown on MgO substrates with or without a Cr underlayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 303, e238-e242	2.8	17
81	Stress relief of tetrahedral amorphous carbon films by post-deposition thermal annealing. <i>Surface and Coatings Technology</i> , 1999 , 120-121, 448-452	4.4	17
80	Tribochemical Characterization and Tribocorrosive Behavior of CoCrMo Alloys: A Review. <i>Materials</i> , 2017 , 11,	3.5	16
79	Nanogranular FePt/C Composite Films for Perpendicular Recording. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 2363-2365	2	16
78	Hard coatings under vibrational contact conditions. <i>Surface and Coatings Technology</i> , 1995 , 74-75, 953-958	4.4	16
77	Tribological behavior of cold sprayed Inconel 718 coatings at room and elevated temperatures. <i>Surface and Coatings Technology</i> , 2020 , 385, 125386	4.4	15
76	Effect of Heat Treatment Temperature on Microstructure and Mechanical and Tribological Properties of Cold Sprayed Ti-6Al-4V Coatings. <i>Tribology Transactions</i> , 2017 , 60, 1033-1042	1.8	15
75	Improvement in lifetime and replication quality of Si micromold using N:DLC:Ni coatings for microfluidic devices. <i>Sensors and Actuators B: Chemical</i> , 2010 , 150, 174-182	8.5	15
74	Structural and magnetic properties of FePt films grown on Cr _{1-x} Mox underlayers. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 1485-1490	2.6	15
73	Evaluation of cold sprayed graphene nanoplates/Inconel 718 composite coatings. <i>Surface and Coatings Technology</i> , 2019 , 378, 125065	4.4	14
72	Effect of Substrate Surface Roughness on Microstructure and Mechanical Properties of Cold-Sprayed Ti6Al4V Coatings on Ti6Al4V Substrates. <i>Journal of Thermal Spray Technology</i> , 2019 , 28, 1959-1973	2.5	14
71	Non-enzymatic glucose detection using nitrogen-doped diamond-like carbon electrodes modified with gold nanoclusters. <i>Pure and Applied Chemistry</i> , 2010 , 82, 2217-2229	2.1	14
70	Strategy of incorporating Ni-based braze alloy in cold sprayed Inconel 718 coating. <i>Surface and Coatings Technology</i> , 2019 , 358, 1006-1012	4.4	14

69	Revealing competitive columnar grain growth behavior and periodic microstructural banding in additively manufactured Ti-6Al-4 V parts by selective electron beam melting. <i>Materialia</i> , 2019 , 7, 100365 ^{3,2}		13
68	Corrosion behavior of aluminum doped diamond-like carbon thin films in NaCl aqueous solution. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 4767-72	1.3	13
67	Epitaxial L10 FePt films on SrTiO3 (100) by sputtering. <i>Journal of Crystal Growth</i> , 2005 , 276, 111-115	1.6	13
66	Fretting friction and wear of polycrystalline diamond coatings. <i>Diamond and Related Materials</i> , 1996 , 5, 649-653	3.5	13
65	A Review on Electrospun Nanofibers-based Electrochemical Sensor. <i>Current Nanoscience</i> , 2015 , 11, 710-724		13
64	Microstructure, mechanical and tribological properties of cold sprayed Ti6Al4V/10Cr composite coatings. <i>Composites Part B: Engineering</i> , 2020 , 202, 108280	10	13
63	Enhancement of adhesion strength and corrosion resistance of nitrogen or platinum/ruthenium/nitrogen doped diamond-like carbon thin films by platinum/ruthenium underlayer. <i>Diamond and Related Materials</i> , 2010 , 19, 1065-1072	3.5	12
62	Structure, adhesive strength and electrochemical performance of nitrogen doped diamond-like carbon thin films deposited via DC magnetron sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 4752-7	1.3	12
61	Thermal, mechanical and tribological properties of polyamide 6 matrix composites containing different carbon nanofillers. <i>Journal of Polymer Engineering</i> , 2015 , 35, 367-376	1.4	11
60	In Situ Synthesis and Characterization of Multi-walled Carbon Nanotube/Prussian Blue Nanocomposite Materials and Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4453-4460	1.3	11
59	Photografting of argon plasma-treated graphite/PEEK laminate to enhance its adhesion. <i>Journal of Adhesion Science and Technology</i> , 2002 , 16, 1883-1900	2	11
58	Large size nitrogen-doped graphene-coated graphite for high performance lithium-ion battery anode. <i>RSC Advances</i> , 2016 , 6, 104010-104015	3.7	10
57	Investigation of corrosion behavior of nitrogen doped and platinum/ruthenium doped diamond-like carbon thin films in Hank's solution. <i>Materials Science and Engineering C</i> , 2011 , 31, 1539-1544	8.3	10
56	STRUCTURAL AND MECHANICAL PROPERTIES OF AMORPHOUS SILICON-CARBON ALLOY FILMS DEPOSITED BY FILTERED CATHODIC VACUUM ARC TECHNIQUE. <i>International Journal of Modern Physics B</i> , 2000 , 14, 315-320	1.1	10
55	Heat treatment of tetrahedral amorphous carbon films grown by filtered cathodic vacuum-arc technique. <i>Diamond and Related Materials</i> , 1999 , 8, 1328-1332	3.5	10
54	Coupled Eulerian-Lagrangian (CEL) simulation of multiple particle impact during Metal Cold Spray process for coating porosity prediction. <i>Surface and Coatings Technology</i> , 2020 , 385, 125433	4.4	9
53	Effects of platinum content on tribological properties of platinum/nitrogen doped diamond-like carbon thin films deposited via magnetron sputtering. <i>Friction</i> , 2014 , 2, 64-72	5.6	9
52	Effects of Nd:YAG Laser Surface Treatment on Tribological Properties of Cold-Sprayed Ti-6Al-4V Coatings Tested against 100Cr6 Steel under Dry Condition. <i>Tribology Transactions</i> , 2019 , 62, 391-402	1.8	9

51	Hot-embossing performance of silicon micromold coated with self-assembled n-octadecyltrichlorosilane. <i>Sensors and Actuators B: Chemical</i> , 2011 , 160, 207-214	8.5	8
50	Electron field emission from nitrogenated tetrahedral amorphous carbon investigated by current imaging tunneling spectroscopy. <i>Applied Surface Science</i> , 1999 , 143, 309-312	6.7	8
49	Tribological Properties of Three-Dimensionally Printed Ti ₆ Al ₄ V Material Via Electron Beam Melting Process Tested Against 100Cr6 Steel Without and With Hank's Solution. <i>Journal of Tribology</i> , 2018 , 140,	1.8	7
48	Investigation on work softening behavior of aluminum and its alloys with iron. <i>Journal of Materials Engineering and Performance</i> , 1997 , 6, 172-176	1.6	7
47	On the heat-treatment induced evolution of residual stress and remarkable enhancement of adhesion strength of cold sprayed Ti ₆ Al ₄ V coatings. <i>Results in Materials</i> , 2020 , 7, 100119	2.3	7
46	Enhancing electrical and tribological properties of poly(methyl methacrylate) matrix nanocomposite films by co-incorporation of multiwalled carbon nanotubes and silicon dioxide microparticles. <i>Journal of Polymer Engineering</i> , 2016 , 36, 23-30	1.4	6
45	Effect of sputtering power on friction coefficient and surface energy of co-sputtered titanium and molybdenum disulfide coatings and its performance in micro hot-embossing. <i>Microsystem Technologies</i> , 2014 , 20, 1069-1078	1.7	6
44	Nitrogen-Induced Degradation of Corrosion Resistance of Platinum/Ruthenium/Nitrogen-Doped Diamond-like Carbon Thin Films. <i>Journal of the Electrochemical Society</i> , 2010 , 157, C269	3.9	6
43	Influence of hydrogen on the structure and properties of tetrahedral amorphous carbon films obtained by the filtered cathodic vacuum arc technique. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999 , 79, 1647-1658		6
42	Correlation between the macroscopic adhesion strength of cold spray coating and the microscopic single-particle bonding behaviour: Simulation, experiment and prediction. <i>Applied Surface Science</i> , 2021 , 547, 149165	6.7	6
41	An investigation into microstructure, tribological and mechanical properties of cold sprayed Inconel 625 coatings. <i>Surface and Coatings Technology</i> , 2021 , 424, 127660	4.4	6
40	Fatigue behavior of ASTM A131 EH36 steel samples additively manufactured with selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 777, 139049	5.3	5
39	Tribological properties of platinum/ruthenium/nitrogen doped diamond-like carbon thin films deposited with different negative substrate biases. <i>Friction</i> , 2014 , 2, 317-329	5.6	5
38	Effect of carbon additive on microstructure evolution and magnetic properties of epitaxial FePt (001) thin films. <i>Thin Solid Films</i> , 2009 , 517, 2638-2647	2.2	5
37	Modification of surface properties of silicon micro-molds by nitrogen and silicon doped diamond-like carbon coatings deposited with magnetron co-sputtering. <i>Vacuum</i> , 2011 , 85, 1105-1107	3.7	5
36	Stripping voltammetric behavior of nitrogen-doped tetrahedral amorphous carbon thin film electrodes in NaCl solutions. <i>Thin Solid Films</i> , 2010 , 518, 4003-4009	2.2	5
35	Controlling the crystallographic orientation and easy axis of magnetic anisotropy in L10 FePt films with Cu additive. <i>Surface and Coatings Technology</i> , 2005 , 198, 270-273	4.4	5
34	Study of tin films by filtered cathodic vacuum arc techniques. <i>Surface Engineering</i> , 1999 , 15, 33-37	2.6	5

33	Inconel 713C Coating by Cold Spray for Surface Enhancement of Inconel 718. <i>Metals</i> , 2021 , 11, 2048	2.3	5
32	Tribological Behavior of Nickel-Doped Diamond-Like Carbon Thin Films Prepared on Silicon Substrates via Magnetron Sputtering Deposition. <i>Tribology Transactions</i> , 2016 , 59, 845-855	1.8	5
31	Memory phenomenon in a lanthanum based bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2016 , 672, 131-136	5.7	5
30	A study on frictional behavior of PMMA against FDTS coated silicon as a function of load, velocity and temperature. <i>Tribology International</i> , 2016 , 102, 44-51	4.9	5
29	Nanostructure Restoration of Thermally Reduced Graphene Oxide Electrode upon Incorporation of Nafion for Detection of Trace Heavy Metals in Aqueous Solution. <i>Electroanalysis</i> , 2016 , 28, 2037-2043	3	4
28	Titanium-Aluminum-Polytetrafluoroethylene coated stainless steel micromold via co-sputtering deposition: Replication performance and limitation in hot-embossing. <i>Sensors and Actuators B: Chemical</i> , 2012 , 163, 290-298	8.5	4
27	Effect of Platinum and Ruthenium Incorporation on Voltammetric Behavior of Nitrogen Doped Diamond-Like Carbon Thin Films. <i>Electroanalysis</i> , 2009 , 21, 2590-2596	3	4
26	Compositional depth profile analysis of coatings on hard disks by X-ray photoelectron spectroscopy and imaging. <i>Surface and Coatings Technology</i> , 2003 , 176, 93-102	4.4	4
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20	Effect of sputtering power on structure, adhesion strength and corrosion resistance of nitrogen doped diamond-like carbon thin films. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 5292-8	1.3	2
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8	The role of defects in current transport through tetrahedral amorphous carbon-based metal/semiconductor/metal structures. <i>Journal of Non-Crystalline Solids</i> , 1999 , 260, 31-40	3.9	1
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