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## Supertough wear-resistant coatings with chameleon surface adaptation

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#	Paper	IF	Citations
417	DISCONTINUOUS SOLUTIONS OF HYPERBOLIC SYSTEMS OF QUASILINEAR EQUATIONS. <b>1960</b> , 15, 53-111		17
416	Microstructure and mechanical properties of nanocomposite (Ti,Si,Al)N coatings. <i>Thin Solid Films</i> , <b>2001</b> , 398-399, 391-396	2.2	112
415	Hard and superhard ZrN <sub>0.8</sub> Si <sub>0.2</sub> N nanocomposite films. <i>Surface and Coatings Technology</i> , <b>2001</b> , 139, 101-109	4.4	109
414	Magnetron sputtering of hard nanocomposite coatings and their properties. <i>Surface and Coatings Technology</i> , <b>2001</b> , 142-144, 557-566	4.4	183
413	Tribological properties of adaptive nanocomposite coatings made of yttria stabilized zirconia and gold. <i>Surface and Coatings Technology</i> , <b>2001</b> , 146-147, 351-356	4.4	76
412	Growth and structural characterization of yttria-stabilized zirconia/gold nanocomposite films with improved toughness. <i>Thin Solid Films</i> , <b>2001</b> , 401, 187-195	2.2	93
411	Structure-performance relations in nanocomposite coatings. <i>Surface and Coatings Technology</i> , <b>2001</b> , 146-147, 201-208	4.4	286
410	Cluster beam synthesis of nanostructured thin films. <b>2001</b> , 19, 2025-2033		57
409	Plasma-enhanced chemical-vapor deposition of titanium aluminum carbonitride/amorphous-carbon nanocomposite thin films. <b>2002</b> , 20, 87-92		28
408	Towards the understanding of mechanical properties of super- and ultrahard nanocomposites. <b>2002</b> , 20, 650		221
407	Hard Nanocomposite Coatings Prepared by Magnetron Sputtering. <b>2002</b> , 230-232, 613-622		20
406	Nanocomposite tribological coatings with "chameleon" surface adaptation. <b>2002</b> , 20, 1434-1444		117
405	Plasma based ion implantation technology for high-temperature oxidation-resistant surface coatings. <i>Surface and Coatings Technology</i> , <b>2002</b> , 158-159, 186-192	4.4	7
404	Electron spectroscopic studies of nanocomposite PVD TiAlBN coatings. <b>2002</b> , 67, 471-476		22
403	Deposition and some properties of nanocrystalline WC and nanocomposite WC/a-C:H coatings. <i>Thin Solid Films</i> , <b>2003</b> , 433, 180-185	2.2	87
402	Wear protective coatings consisting of TiC <sub>0.5</sub> SiC <sub>0.5</sub> -C:H deposited by magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2003</b> , 163-164, 238-244	4.4	51
401	Structure and mechanical properties of TiSiN ceramic nanocomposite coatings. <i>Surface and Coatings Technology</i> , <b>2003</b> , 163-164, 251-259	4.4	31

400	Structure and mechanical properties of magnetron sputtered ZrTiCuN films. <i>Surface and Coatings Technology</i> , <b>2003</b> , 166, 243-253	4-4	51
399	Recent advances of superhard nanocomposite coatings: a review. <i>Surface and Coatings Technology</i> , <b>2003</b> , 167, 113-119	4-4	356
398	PVD grown (Ti,Si,Al)N nanocomposite coatings and (Ti,Al)N/(Ti,Si)N multilayers: structural and mechanical properties. <i>Surface and Coatings Technology</i> , <b>2003</b> , 172, 109-116	4-4	49
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395	Magnetron sputter pulsed laser deposition: technique and process control developments. <i>Surface and Coatings Technology</i> , <b>2003</b> ,	4-4	
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247	Nanomechanical and nanotribological properties of carbon-based thin films: A review. <b>2010</b> , 28, 51-70		255
246	Structure and mechanical properties of low temperature magnetron sputtered nanocrystalline (nc-)Ti(N,C)/amorphous diamond like carbon (a-C:H) coatings. <i>Thin Solid Films</i> , <b>2010</b> , 519, 24-30	2.2	11
245	Fabrication of CrAlN nanocomposite films with high hardness and excellent anti-wear performance for gear application. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 3517-3524	4.4	70
244	Tailored synthesis of nanostructured WC/a-C coatings by dual magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 3490-3500	4.4	95
243	Coefficient of friction and wear of sputtered a-C thin coatings containing Mo. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, 1486-1490	4.4	10
242	Influence of hardness and roughness on the tribological performance of TiC/a-C nanocomposite coatings. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, 2624-2632	4.4	36
241	The effect of ceramic nanoparticles on tribological properties of alumina sol-gel thin coatings. <b>2010</b> , 36, 47-54		24
240	Yttria-stabilized zirconia-based composites with adaptive thermal conductivity. <b>2010</b> , 70, 2117-2122		22
239	Mechanical and tribological properties of Ti-containing carbon nanocomposite coatings deposited on TiAlV alloys. <b>2010</b> , 13, 527-533		2

238	Epitaxially stabilized TiN/(Ti,Fe,Co)N multilayer thin films in (pseudo-)fcc crystal structure by sequential magnetron sputter deposition. <b>2010</b> , 43, 395406		3
237	Ti-DLC films with superior friction performance. <b>2010</b> , 19, 342-349		96
236	Structure, scratch resistance and corrosion performance of nickel doped diamond-like carbon thin films. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 3125-3130	4-4	32
235	Nanocomposite Coatings for Severe Applications. <b>2010</b> , 679-715		6
234	Tribological and mechanical properties of nanocrystalline-TiC/a-C nanocomposite thin films. <b>2010</b> , 28, 244-249		99
233	Thin Film Nucleation, Growth, and Microstructural Evolution: An Atomic Scale View. <b>2010</b> , 554-620		20
232	Characterization and properties TiAlSiN nanocomposite coatings prepared by middle frequency magnetron sputtering. <b>2011</b> , 257, 10373-10378		29
231	Modulation of residual stress in diamond like carbon films with incorporation of nanocrystalline gold. <b>2011</b> , 257, 10451-10458		25
230	Review of Nanocomposite Thin Films and Coatings Deposited by PVD and CVD Technology. <b>2011</b> ,		10
229	Influence of TiC/a-C phase on tribological properties of composite coatings. <b>2011</b> , 5, 172-176		
228	Review on self-lubricant transition metal dichalcogenide nanocomposite coatings alloyed with carbon. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 686-695	4-4	143
227	Deposition of alpha-WC/a-C nanocomposite thin films by hot-filament CVD. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 103-106	4-4	7
226	Improvement in load support capability of a-C(Al)-based nanocomposite coatings by multilayer architecture. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 387-394	4-4	15
225	Identification of the wear mechanism on WC/C nanostructured coatings. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 1913-1920	4-4	37
224	Deposition, structure and hardness of TiCuN hard films prepared by pulse biased arc ion plating. <b>2011</b> , 86, 415-421		17
223	Effect of nickel incorporation on the optical properties of diamond-like carbon (DLC) matrix. <b>2011</b> , 72, 1111-1116		18
222	Nanotube/matrix interfacial friction and sliding in composites with an amorphous carbon matrix. <b>2011</b> , 65, 1014-1017		19
221	Interfacial sliding in carbon nanotube/diamond matrix composites. <b>2011</b> , 59, 6700-6709		29

220	Improved Tribological Behavior of DLC Films Under Water Lubrication by Surface Texturing. <b>2011</b> , 41, 439-449		67
219	Environmental Effects on the Tribology and Microstructure of MoS <sub>2</sub> /B <sub>2</sub> O <sub>3</sub> Films. <b>2011</b> , 42, 203-213		35
218	Achieving Low Tribological Moisture Sensitivity by a-C:Si:Al Carbon-based Coating. <b>2011</b> , 43, 329-339		17
217	Real-time control of AlN incorporation in epitaxial Hf <sub>1-x</sub> Al <sub>x</sub> N using high-flux, low-energy (10 <sup>20</sup> eV) ion bombardment during reactive magnetron sputter deposition from a Hf <sub>0.7</sub> Al <sub>0.3</sub> alloy target. <b>2011</b> , 59, 421-428		19
216	Supertoughening in B1 transition metal nitride alloys by increased valence electron concentration. <b>2011</b> , 59, 2121-2134		123
215	The structure and tribological properties of aluminum/carbon nanocomposite thin films synthesized by reactive magnetron sputtering. <b>2011</b> , 43, 1057-1063		16
214	Influence of nano-inclusions/grain boundaries on crack propagation modes in materials. <b>2011</b> , 176, 490-493		3
213	Comparative study of simplex doped nc-WC/a-C and duplex doped nc-WC/a-C(Al) nanocomposite coatings. <b>2011</b> , 257, 6971-6979		42
212	Endurance of TiAlSiN coatings: Effect of Si and bias on wear and adhesion. <b>2011</b> , 270, 541-549		52
211	Structural, mechanical and tribological properties of MoS <sub>2</sub> solid lubricant coating. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, 3274-3279	4.4	50
210	Microstructural, mechanical and tribological properties of tungsten-gradually doped diamond-like carbon films with functionally graded interlayers. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, 3631-3638	4.4	44
209	Microstructure and mechanical properties of W-C:H coatings deposited by pulsed reactive magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, 4471-4479	4.4	17
208	Tribological properties of solid multilayer composite coatings in dry rolling contact. <i>Tribology International</i> , <b>2011</b> , 44, 789-796	4.9	10
207	Realization of superhard nanocomposites with sufficient toughness: Superlattice nanocrystal-TiN/amorphous-(W,Ti)C <sub>0.83</sub> films. <i>Thin Solid Films</i> , <b>2011</b> , 519, 1901-1906	2.2	8
206	Effect of composition on mechanical behaviour of diamond-like carbon coatings modified with titanium. <i>Thin Solid Films</i> , <b>2011</b> , 519, 3061-3067	2.2	22
205	Self-adaptive low friction coatings based on transition metal dichalcogenides. <i>Thin Solid Films</i> , <b>2011</b> , 519, 4037-4044	2.2	49
204	Study on Wear and Friction Resistance of CrTiAlMoN Coatings Deposited by Magnetron Sputtering. <b>2011</b> , 413, 295-299		
203	Relationship between hardness and fracture toughness in Ti <sub>3</sub> SiB <sub>2</sub> nanocomposite coatings. <i>Surface and Coatings Technology</i> , <b>2012</b> , 213, 26-32	4.4	25

202	Tribological properties of a-C:W film deposited by radio frequency magnetron Co-sputtering method. <i>Thin Solid Films</i> , <b>2012</b> , 521, 107-111	2.2	6
201	Duplex doped nanocomposite carbon-based coating with self-lubricating performance. <b>2012</b> , 21, 58-65		17
200	Optimising deposition parameters of W-DLC coatings for tool materials of high speed steel and cemented carbide. <b>2012</b> , 86, 2140-2147		32
199	Structure and mechanical properties of WBeC/diamond-like carbon and WBe/diamond-like carbon bi-layer coatings prepared by pulsed laser deposition. <i>Thin Solid Films</i> , <b>2012</b> , 520, 6476-6483	2.2	52
198	Hierarchical adaptive nanostructured PVD coatings for extreme tribological applications: the quest for nonequilibrium states and emergent behavior. <b>2012</b> , 13, 043001		45
197	Effect of nickel incorporation on microstructural and optical properties of electrodeposited diamond like carbon (DLC) thin films. <b>2012</b> , 261, 789-799		36
196	The influence of Ni content on the characteristics of CNi thin films. <i>Surface and Coatings Technology</i> , <b>2012</b> , 211, 188-191	4.4	7
195	Effect of elevated annealing temperature on the microstructure and nano-hardness of ZnO films deposited by the sol-gel process. <b>2012</b> , 13, 2005-2009		7
194	Synthesis and characterization of titanium-containing graphite-like carbon films with low internal stress and superior tribological properties. <b>2012</b> , 45, 295301		29
193	Tribological properties of transition metal di-chalcogenide based lubricant coatings. <b>2012</b> , 6, 116-127		32
192	Microstructure and friction-reducing performance of sulfurized W doped diamond-like carbon film. <b>2012</b> , 73, 202-205		14
191	From natural lotus leaf to highly hard-flexible diamond-like carbon surface with superhydrophobic and good tribological performance. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 2258-2264	4.4	34
190	Microstructure and tribology of TiC(Ag)/a-C:H nanocomposite coatings deposited by unbalanced magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 3299-3308	4.4	42
189	Toughness evaluation of hard coatings and thin films. <i>Thin Solid Films</i> , <b>2012</b> , 520, 2375-2389	2.2	182
188	Sputter deposited low-friction and tough CrSi <sub>3</sub> N <sub>4</sub> nanocomposite coatings on plasma nitrided M2 steel. <b>2012</b> , 86, 1118-1125		5
187	Molecular modeling of cracks at interfaces in nanoceramic composites. <b>2013</b> , 61, 1971-1982		12
186	Experimental study and modeling of laser plasma ion implantation for WSex/57Fe interface modification. <b>2013</b> , 276, 242-248		5
185	Bio-inspired functional surfaces for advanced applications. <b>2013</b> , 62, 607-628		156

184	A Nickel-Alloy-Based High-Temperature Self-Lubricating Composite with Simultaneously Superior Lubricity and High Strength. <b>2013</b> , 49, 573-577		29
183	Synthesis and tribological properties of WSex films prepared by magnetron sputtering. <b>2013</b> , 142, 186-194		23
182	Deposition and characterization of reactive magnetron sputtered zirconium carbide films. <i>Surface and Coatings Technology</i> , <b>2013</b> , 232, 876-883	4-4	53
181	Influence of service temperature on tribological characteristics of self-lubricant coatings: A review. <b>2013</b> , 7, 28-39		31
180	Ultra-low friction WBN solid lubricant coating. <i>Surface and Coatings Technology</i> , <b>2013</b> , 232, 541-548	4-4	49
179	Structure and mechanical properties of Fe1-xMnx/TiB2 multilayer coatings: Possible role of transformation toughening. <i>Surface and Coatings Technology</i> , <b>2013</b> , 237, 158-163	4-4	11
178	Influence of Ti addition on the structure and properties of low-friction WBC coatings. <i>Surface and Coatings Technology</i> , <b>2013</b> , 232, 340-348	4-4	34
177	Wear minimization through utilization of atomic-scale functional surface structure. <b>2013</b> , 103, 151904		4
176	Advanced Design of Hierarchical Topographies in Metallic Surfaces by Combining Micro-Coining and Laser Interference Patterning. <b>2013</b> , 15, 503-509		5
175	Lubricating a bright future: Lubrication contribution to energy saving and low carbon emission. <b>2013</b> , 56, 2888-2913		56
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173	Preparation and properties of MoS2/a-C films for space tribology. <b>2013</b> , 46, 425301		18
172	Influence of Silver Incorporation on Toughness Improvement of Diamond-Like Carbon Film Prepared by Ion Beam Assisted Deposition. <b>2013</b> , 89, 578-593		12
171	Effect of C2H2 flow rate on microstructure and properties of ncCu/aC:H nanocomposite films prepared by filtered cathodic vacuum arc technique. <b>2013</b> , 307, 137-142		5
170	V-alloyed ZrO2 coatings with temperature homogenization function for high-temperature sliding contacts. <i>Surface and Coatings Technology</i> , <b>2013</b> , 228, 76-83	4-4	8
169	Lubricious silver tantalate films for extreme temperature applications. <i>Surface and Coatings Technology</i> , <b>2013</b> , 217, 140-146	4-4	46
168	Extreme friction reductions during initial running-in of WSiTi low-friction coatings. <b>2013</b> , 302, 987-997		38
167	Nanoparticle Coating of Orthodontic Appliances for Friction Reduction. <b>2013</b> , 259-279		4

166	Some trends in the development of wear-resistant functional coatings. <b>2013</b> , 52, 176-188		4
165	Improvement in tribological properties by modification of grain boundary and microstructure of ultrananocrystalline diamond films. <b>2013</b> , 5, 3614-24		33
164	Hard Nanocomposite Coatings. <b>2014</b> , 325-353		13
163	PVD and CVD Hard Coatings. <b>2014</b> , 449-467		14
162	Tribological comparison of different C-based coatings in lubricated and unlubricated conditions. <i>Surface and Coatings Technology</i> , <b>2014</b> , 257, 278-285	4-4	7
161	Stretchable Metallic Electrodes for Electroactive Polymer Actuators. <b>2014</b> , 16, 1133-1139		3
160	Sliding wear-induced chemical nanolayering in CuAg, and its implications for high wear resistance. <b>2014</b> , 72, 148-158		58
159	Deposition and characterization of Ti <sub>1-x</sub> N <sub>x</sub> nanocomposite films by pulsed bias arc ion plating. <b>2014</b> , 106, 27-32		7
158	Formation and Surface Structural Features of Crystalline Ceramic Nanocomposite Coatings on Aluminium Using Lithium Sulphate with Silicate Additive. <b>2014</b> , 27, 185-197		1
157	Hard coatings with high temperature adaptive lubrication and contact thermal management: review. <i>Surface and Coatings Technology</i> , <b>2014</b> , 257, 247-265	4-4	144
156	AlN-(TiCr)B <sub>2</sub> ion-plasma coating for cutting tools of cBN-based polycrystalline superhard material. <b>2014</b> , 36, 208-216		6
155	Architecture of PVD coatings for metalcutting applications: A review. <i>Surface and Coatings Technology</i> , <b>2014</b> , 257, 138-153	4-4	117
154	Toughness enhancement of nanostructured hard coatings: Design strategies and toughness measurement techniques. <i>Surface and Coatings Technology</i> , <b>2014</b> , 257, 206-212	4-4	29
153	Microstructure and phase composition dependent tribological properties of TiC/a-C nanocomposite thin films. <i>Surface and Coatings Technology</i> , <b>2014</b> , 258, 557-565	4-4	22
152	Toward hard yet tough ceramic coatings. <i>Surface and Coatings Technology</i> , <b>2014</b> , 258, 1-16	4-4	123
151	Effects of Si content on microstructure and mechanical properties of TiAlN/Si <sub>3</sub> N <sub>4</sub> -Cu nanocomposite coatings. <b>2014</b> , 320, 689-698		20
150	Preparation of self-lubricating composite coatings through a micro-arc plasma oxidation with graphite in electrolyte solution. <i>Surface and Coatings Technology</i> , <b>2014</b> , 259, 318-324	4-4	42
149	Friction and wear behavior of nickel-alloy-based high temperature self-lubricating composites against Si <sub>3</sub> N <sub>4</sub> and Inconel 718. <i>Tribology International</i> , <b>2014</b> , 75, 1-9	4-9	59



148	Quantitative electromechanical characterization of materials using conductive ceramic tips. <b>2014</b> , 71, 153-163		12
147	Tribological properties of gradient MoSe <sub>2</sub> /NiTi thin films obtained by pulsed laser deposition in standard and shadow mask configurations. <i>Thin Solid Films</i> , <b>2014</b> , 556, 35-43	2.2	20
146	Enhancement of high-temperature oxidation resistance and mechanical properties of Ni <sub>3</sub> Al thin films by inserting ultrathin Cr layers. <b>2014</b> , 101, 107-112		5
145	The influence of microstructural variations on mechanical and tribological properties of low-friction TiC/diamond-like carbon nanocomposite films. <b>2014</b> , 40, 13329-13337		14
144	Lubricious oxide coatings for extreme temperature applications: A review. <i>Surface and Coatings Technology</i> , <b>2014</b> , 257, 266-277	4.4	107
143	Nickel concentration dependent structural and optical properties of electrodeposited diamond like carbon thin films. <b>2014</b> , 66, 10302		3
142	A State-of-the-art overview. <b>2014</b> , 1, 24		7
141	Tribology of Engineered Surfaces. <b>2014</b> , 123-166		1
140	Conformal growth of low friction HfB <sub>x</sub> C <sub>y</sub> hard coatings. <i>Thin Solid Films</i> , <b>2015</b> , 592, 182-188	2.2	4
139	Tribological Behavior of Carbon Based Materials. <b>2015</b> ,		
138	Toughness Evaluation of Thin Hard Coatings and Films. <b>2015</b> , 47-122		4
137	Nanotribology of MEMS/NEMS. <b>2015</b> , 631-656		7
136	Origin of Ultra-Low Friction of Boric Acid: Role of Vapor Adsorption. <b>2015</b> , 58, 1		12
135	Wear and corrosion resistance of CrN/TiN superlattice coatings deposited by a combined deep oscillation magnetron sputtering and pulsed dc magnetron sputtering. <b>2015</b> , 351, 332-343		73
134	Investigation of crystalline and amorphous MoS <sub>2</sub> based coatings: Towards developing new coatings for space applications. <b>2015</b> , 330-331, 448-460		42
133	Nanocomposite Antifriction Coatings for Innovative Tribotechnical Systems. <b>2015</b> , 57, 443-448		3
132	Effects of nitriding temperature on microstructures and vacuum tribological properties of plasma-nitrided titanium. <i>Surface and Coatings Technology</i> , <b>2015</b> , 264, 32-40	4.4	41
131	Bio-tribological properties and cytocompatibility of TiSiN coatings. <b>2015</b> , 115, 50-57		9

130	Effect of Ni content on CrNiN coatings prepared by RF magnetron sputtering. <b>2015</b> , 120, 54-59		14
129	Electrical and magnetic properties of electrodeposited nickel incorporated diamond-like carbon thin films. <b>2015</b> , 337, 195-207		20
128	Wear resistant multiphase compound of Ti(C, O, N)/a-C:H nano composite film. <i>Thin Solid Films</i> , <b>2015</b> , 590, 17-27	2.2	6
127	Mapping of impact-abrasive wear performance of WC/Co cemented carbides. <b>2015</b> , 332-333, 971-978		37
126	Preparation and Characterization of Sulfurized Tungsten Doped Non-hydrogenated Diamond-Like Carbon Films. <b>2015</b> , 35, 769-783		2
125	Self-Lubricity of WSex Nanocomposite Coatings. <b>2015</b> , 7, 7979-86		25
124	A High-Resolution TEM/EELS Study of the Effect of Doping Elements on the Sliding Mechanisms of Sputtered WS <sub>2</sub> Coatings. <b>2015</b> , 58, 113-118		10
123	Reversing the inverse hardness-toughness trend using W/VC multilayer coatings. <i>Surface and Coatings Technology</i> , <b>2015</b> , 284, 80-84	4.4	17
122	Formation of a Tribofilm in the Surface Layer of AlTiCrNB Magnetron Coating on Boron Nitride During Turning of Hardened Steel. <b>2015</b> , 54, 140-150		5
121	Structural, mechanical and tribological properties of pulsed DC magnetron sputtered TiN/WS <sub>x</sub> /TiN bilayer coating. <i>Surface and Coatings Technology</i> , <b>2015</b> , 282, 24-35	4.4	14
120	Structural and mechanical properties of nanocrystalline Zr co-sputtered a-C(:H) amorphous films. <b>2015</b> , 325, 64-72		22
119	Origin of temperature-induced low friction of sputtered Si-containing amorphous carbon coatings. <b>2015</b> , 82, 437-446		30
118	An updated overview of diamond-like carbon coating in tribology. <b>2015</b> , 40, 90-118		88
117	Effect of microstructural evolution on mechanical and tribological properties of Ti-doped DLC films: How was an ultralow friction obtained?. <b>2016</b> , 34, 031504		9
116	Experimental and theoretical investigation of Nb-Si-C films. <i>Surface and Coatings Technology</i> , <b>2016</b> , 300, 35-41	4.4	9
115	Gallium ion irradiation induced compaction and hardening of sputter deposited amorphous carbon thin films. <b>2016</b> , 112, 512-518		
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113	Hard yet tough V-Al-C-N nanocomposite coatings: Microstructure, mechanical and tribological properties. <i>Surface and Coatings Technology</i> , <b>2016</b> , 304, 553-559	4.4	11

112	Photochemical Copper Coating on 3D Printed Thermoplastics. <b>2016</b> , 6, 31188		12
111	Tribological Coatings for Biomedical Devices. <b>2016</b> , 181-231		1
110	Tribological properties and lubrication mechanisms of a AgMo composite. <b>2016</b> , 28, 141-156		18
109	Nanoscale self-organization reaction in CuAg alloys subjected to dry sliding and its impact on wear resistance. <i>Tribology International</i> , <b>2016</b> , 100, 420-429	4.9	21
108	Investigation of Post-deposition Annealing Effects on Microstructure, Mechanical and Tribological Properties of WC/a-C Nanocomposite Coatings. <b>2016</b> , 63, 1		16
107	Low humidity-sensitivity of MoS <sub>2</sub> /Pb nanocomposite coatings. <b>2016</b> , 350-351, 1-9		52
106	Recent progress and new directions in density functional theory based design of hard coatings. <i>Surface and Coatings Technology</i> , <b>2016</b> , 286, 178-190	4.4	39
105	Synthesis of WS <sub>2</sub> and WSe <sub>2</sub> nanowires on stainless steel coupon by reaction under autogenic pressure at elevated temperature method. <b>2016</b> , 6, 855-862		6
104	The Adaptive Tribological Investigation of Polycaprolactam/Graphene Nanocomposites. <b>2017</b> , 65, 1		11
103	CHARACTERIZATION OF RF MAGNETRON-SPUTTERED CrCuN AND CrNiN COATINGS BY NANOINDENTATION. <b>2017</b> , 24, 1750103		2
102	Solid lubricant behavior of MoS and WSe-based nanocomposite coatings. <b>2017</b> , 18, 122-133		38
101	Effect of carbon concentration and argon flow rate on the microstructure and triboperformance of magnetron sputtered WS <sub>2</sub> /a-C coatings. <i>Surface and Coatings Technology</i> , <b>2017</b> , 332, 142-152	4.4	20
100	Structure and electrical properties of molybdenum-containing diamond-like carbon coatings for use as fatigue sensors. <b>2017</b> , 80, 38-44		3
99	Quantifying adhesion of ultra-thin multi-layer DLC coatings to Ni and Si substrates using shear, tension, and nanoscratch molecular dynamics simulations. <b>2017</b> , 141, 317-326		8
98	Structural, tribological, and mechanical properties of the hind leg joint of a jumping insect: Using katydids to inform bioinspired lubrication systems. <b>2017</b> , 62, 284-292		10
97	Pulse current co-deposition of Ni-WS <sub>2</sub> nano-composite film for solid lubrication. <b>2017</b> , 32, 365-372		11
96	PREPARING OF THE CHAMELEON COATING BY THE ION JET DEPOSITION METHOD. <b>2017</b> , 9, 19		8
95	Fracture toughness of Ti-Si-N thin films. <b>2018</b> , 72, 78-82		26

94	Effect of Deposition Time on Polaron Hopping Conduction Parameters in Carbon Films Embedded by Nickel Nanoparticles. <b>2018</b> , 10, 2889-2894		1
93	Inherent toughness and fracture mechanisms of refractory transition-metal nitrides via density-functional molecular dynamics. <b>2018</b> , 151, 11-20		34
92	Fluorine-carbon doping of WS-based coatings deposited by reactive magnetron sputtering for low friction purposes. <b>2018</b> , 445, 575-585		11
91	Bioinspired surface functionalization of metallic biomaterials. <b>2018</b> , 77, 90-105		104
90	Room and elevated temperature sliding wear behavior of cold sprayed Ni-WC composite coatings. <i>Surface and Coatings Technology</i> , <b>2018</b> , 350, 136-145	4-4	42
89	Structural Features and Tribological Properties of Multilayer Coatings Based on Refractory Metals. <b>2018</b> , 54, 240-258		8
88	Synthesis and characterization of tungsten disulfide thin films by spray pyrolysis technique for n-WS <sub>2</sub> /p-Si junction diode application. <b>2018</b> , 29, 16815-16823		3
87	Preparation and tribological properties of MoS <sub>2</sub> /graphite composite coatings modified by La <sub>2</sub> O <sub>3</sub> . <b>2018</b> , 70, 1422-1430		3
86	Fretting wear behavior of duplex PEO/chameleon coating on Al alloy. <i>Surface and Coatings Technology</i> , <b>2018</b> , 352, 238-246	4-4	26
85	Deposition of thin tungsten carbide films by dual ion beam sputtering deposition. <b>2018</b> , 157, 45-50		7
84	Surface Fatigue Behavior of a WC/aC:H Thin-Film and the Tribochemical Impact of Zinc Dialkyldithiophosphate. <b>2019</b> , 11, 41676-41687		7
83	Adaptive nanolaminate coating by atomic layer deposition. <i>Thin Solid Films</i> , <b>2019</b> , 692, 137631	2.2	1
82	Impact wear behavior of WC/a-C nanomultilayers. <b>2019</b> , 6, 116443		2
81	Influence of hexamethyldisilazane vapor on the structure and mechanical properties of TiC-based coatings. <i>Surface and Coatings Technology</i> , <b>2019</b> , 374, 264-275	4-4	2
80	Plasmochemical investigations of DLC/WC <sub>x</sub> nanocomposite coatings synthesized by gas injection magnetron sputtering technique. <b>2019</b> , 96, 1-10		13
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