Yu-Tao Pei

List of Publications by Year
in descending order

192 papers	6,243 citations	61945 43 h-index	95218 68 g-index
196 all docs	196 docs citations	196 times ranked	5007 citing authors

#	Article	IF	Citations
1	Nanostructure and properties of TiC/a-C:H composite coatings. Acta Materialia, 2005, 53, 4505-4521.	3.8	264
2	Effects of size on the mechanical response of metallic glasses investigated through in situ TEM bending and compression experiments. Acta Materialia, 2010, 58, 189-200.	3.8	246
3	Functionally graded materials produced by laser cladding. Acta Materialia, 2000, 48, 2617-2624.	3.8	214
4	Oxidation-induced crack healing in Ti3AlC2 ceramics. Scripta Materialia, 2008, 58, 13-16.	2.6	198
5	The evolution of microstructure in a laser clad TiBâ€“Ti composite coating. Acta Materialia, 2003, 51, 831-845.	3.8	149
6	Intrinsic and extrinsic size effects in the deformation of metallic glass nanopillars. Acta Materialia, 2012, 60, 889-898.	3.8	144
7	Microstructural control of TiC/a-C nanocomposite coatings with pulsed magnetron sputtering. Acta Materialia, 2008, 56, 696-709.	3.8	135
8	SiCp/Ti6Al4V functionally graded materials produced by laser melt injection. Acta Materialia, 2002, 50, 2035-2051.	3.8	132
9	Nanostructured TiC/a-C coatings for low friction and wear resistant applications. Surface and Coatings Technology, 2005, 198, 44-50.	2.2	114
10	Mechanical properties of attapulgite clay reinforced polyurethane shape-memory nanocomposites. European Polymer Journal, 2009, 45, 1904-1911.	2.6	108
11	Laser melt injection in aluminum alloys: on the role of the oxide skin. Acta Materialia, 2000, 48, 4225-4233.	3.8	103
12	Ultralightweight and 3D Squeezable Graphene-Polydimethylsiloxane Composite Foams as Piezoresistive Sensors. ACS Applied Materials & Interfaces, 2019, 11, 35201-35211.	4.0	96
13	Deformation and failure mechanism of nano-composite coatings under nano-indentation. Surface and Coatings Technology, 2006, 200, 6718-6726.	2.2	91
14	Thermo-mechanical properties of polystyrene-based shape memory nanocomposites. Journal of Materials Chemistry, 2010, 20, 3442.	6.7	86
15	High temperature healing of Ti2AlC: On the origin of inhomogeneous oxide scale. Scripta Materialia, 2011, 65, 135-138.	2.6	85
16	Design and fabrication of conformal cooling channels in molds: Review and progress updates. International Journal of Heat and Mass Transfer, 2021, 171, 121082.	2.5	82
17	Self-healing performance of Ti2AlC ceramic. Journal of Materials Chemistry, 2012, 22, 8304.	6.7	77
18	Mechanical behavior and failure mechanism of resistance spot welded DP1000 dual phase steel. Materials and Design, 2017, 124, 171-182.	3.3	73

#	Article	IF	Citations
19	Effect of stacking fault energy on the restoration mechanisms and mechanical properties of friction stir welded copper alloys. Materials and Design, 2019, 162, 185-197.	3.3	70
20	Five-fold branched Si particles in laser clad AlSi functionally graded materials. Acta Materialia, 2001, 49, 561-571.	3.8	69
21	Influence of deposition parameters on the structure and mechanical properties of nanocomposite coatings. Surface and Coatings Technology, 2006, 201, 590-598.	2.2	67
22	Tribological behavior of W-DLC coated rubber seals. Surface and Coatings Technology, 2008, 202, 1869-1875.	2.2	67
23	Wear and friction performance of PTFE filled epoxy composites with a high concentration of SiO2 particles. Wear, 2015, 322-323, 171-180.	1.5	67
24	Antimicrobial Electrodeposited Silver-Containing Calcium Phosphate Coatings. ACS Applied Materials & Interfaces, 2020, 12, 5531-5541.	4.0	67
25	Advanced TiC/a-C:H nanocomposite coatings deposited by magnetron sputtering. Journal of the European Ceramic Society, 2006, 26, 565-570.	2.8	66
26	Development of self-healing epoxy composites via incorporation of microencapsulated epoxy and mercaptan in poly(methyl methacrylate) shell. Polymer Testing, 2019, 73, 395-403.	2.3	66
27	Three-dimensional micron-porous graphene foams for lightweight current collectors of lithium-sulfur batteries. Carbon, 2019, 144, 713-723.	5.4	65
28	Status and perspectives of hierarchical porous carbon materials in terms of highâ€performance lithiumâ€“sulfur batteries. , 2022, 4, 346-398.		65
29	Ni-toughened nc-TiN/a-SiNx nanocomposite thin films. Surface and Coatings Technology, 2005, 200, 1530-1534.	2.2	64
30	Ultra-high temperature ablation behavior of Ti2AlC ceramics under an oxyacetylene flame. Journal of the European Ceramic Society, 2011, 31, 855-862.	2.8	64
31	Oxide-scale growth on Cr2AlC ceramic and its consequence for self-healing. Scripta Materialia, 2013, 69, 203-206.	2.6	64
32	TEM characterization of a Cr/Ti/TiC graded interlayer for magnetron-sputtered TiC/a-C:H nanocomposite coatings. Acta Materialia, 2005, 53, 3925-3934.	3.8	61
33	In-situ microscopy investigation of failure mechanisms in Al/SiCp metal matrix composite produced by laser embedding. Scripta Materialia, 2000, 42, 589-595.	2.6	58
34	Early stages of oxidation of Ti3AlC2 ceramics. Materials Chemistry and Physics, 2008, 112, 762-768.	2.0	57
35	Surface alloying of high-vanadium high-speed steel on ductile iron using plasma transferred arc technique: Microstructure and wear properties. Materials and Design, 2016, 100, 223-234.	3.3	57
36	Bioinspired Cilia Sensors with Graphene Sensing Elements Fabricated Using 3D Printing and Casting. Nanomaterials, 2019, 9, 954.	1.9	57

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37	Ion energy distribution measurements in rf and pulsed dc plasma discharges. Plasma Sources Science and Technology, 2012, 21, 024004.	1.3	53
38	Bioinspired designs and biomimetic applications of triboelectric nanogenerators. Nano Energy, 2021, 84, 105865.	8.2	53
39	TEM study of the initial oxide scales of Ti2AlC. Acta Materialia, 2011, 59, 5216-5223.	3.8	52
40	Adhesion improvement of hydrogenated diamond-like carbon thin films by pre-deposition plasma treatment of rubber substrate. Surface and Coatings Technology, 2009, 203, 1964-1970.	2.2	51
41	Interface fracture behavior of zinc coatings on steel: Experiments and finite element calculations. Surface and Coatings Technology, 2006, 201, 4311-4316.	2.2	49
42	Magnetron reactively sputtered Ti-DLC coatings on HNBR rubber: The influence of substrate bias. Surface and Coatings Technology, 2008, 202, 4939-4944.	2.2	49
43	Influence of hardness and roughness on the tribological performance of TiC/a-C nanocomposite coatings. Surface and Coatings Technology, 2010, 205, 2624-2632.	2.2	48
44	Crystal growth mechanism of calcium phosphate coatings on titanium by electrochemical deposition. Surface and Coatings Technology, 2018, 334, 526-535.	2.2	45
45	Mechanical and biological properties of electrodeposited calcium phosphate coatings. Materials Science and Engineering C, 2019, 100, 475-484.	3.8	43
46	Breakdown of the Coulomb friction law in TiCâˆ•a-C:H nanocomposite coatings. Journal of Applied Physics, 2006, 100, 114309.	1.1	41
47	Gradient microstructure in laser clad TiC-reinforced Ni-alloy composite coating. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 241, 259-263.	2.6	40
48	Effect of process parameters on mechanical and tribological performance of pulsed-DC sputtered TiC/a-C:H nanocomposite films. Surface and Coatings Technology, 2010, 205, 2633-2642.	2.2	40
49	Microstructural and mechanical properties of low-carbon ultra-fine bainitic steel produced by multi-step austempering process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 734, 329-337.	2.6	40
50	Microstructure and wear resistance of laser clad TiC particle reinforced coating. Materials Science and Technology, 1995, 11, 520-525.	0.8	39
51	Micro-mechanics of nanostructured carbon/shape memory polymer hybrid thin film. Soft Matter, 2016, 12, 106-114.	1.2	39
52	Laser cladding of ZrO2-(Ni alloy) composite coating. Surface and Coatings Technology, 1996, 81, 131-135.	2.2	37
53	Biomimetic Soft Polymer Microstructures and Piezoresistive Graphene MEMS Sensors Using Sacrificial Metal 3D Printing. ACS Applied Materials & Interfaces, 2021, 13, 1094-1104.	4.0	36
54	Structural changes in polytetrafluoroethylene molecular chains upon sliding against steel. Journal of Materials Science, 2014, 49, 1484-1493.	1.7	35

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55	Healing performance of Ti2AlC ceramic studied with in situ microcantilever bending. Journal of the European Ceramic Society, 2013, 33, 383-391.	2.8	34
56	Ultrashort pulsed laser ablation of stainless steels. International Journal of Machine Tools and Manufacture, 2019, 138, 27-35.	6.2	34
57	Influence of Surface Roughness on the Transfer Film Formation and Frictional Behavior of TiC/a-C Nanocomposite Coatings. Tribology Letters, 2011, 41, 97-101.	1.2	32
58	Growth of nanocomposite films: From dynamic roughening to dynamic smoothening. Acta Materialia, 2009, 57, 5156-5164.	3.8	31
59	Effect of pulse scheme on the microstructural evolution, residual stress state and mechanical performance of resistance spot welded DP1000-GI steel. Science and Technology of Welding and Joining, 2018, 23, 649-658.	1.5	31
60	Tunable self-organization of nanocomposite multilayers. Applied Physics Letters, 2010, 96, .	1.5	30
61	Flexible diamond-like carbon films on rubber: On the origin of self-acting segmentation and film flexibility. Acta Materialia, 2012, 60, 5526-5535.	3.8	30
62	Effect of carbon concentration and argon flow rate on the microstructure and triboperformance of magnetron sputtered WS2/a-C coatings. Surface and Coatings Technology, 2017, 332, 142-152.	2.2	30
63	Tailoring three-dimensional interconnected nanoporous graphene micro/nano-foams for lithium-sulfur batteries. Carbon, 2020, 157, 437-447.	5.4	30
64	Single and bundled carbon nanofibers as ultralightweight and flexible piezoresistive sensors. Npj Flexible Electronics, 2020, 4, .	5.1	30
65	Determination of the sp3 C content of a-C films through EELS analysis in the TEM. Surface and Coatings Technology, 2005, 200, 739-743.	2.2	29
66	Nanoscale deformation mechanism of TiC/a-C nanocomposite thin films. Journal of Applied Physics, 2009, 105, .	1.1	29
67	Effect of sputtering pressure on the surface topography, structure, wettability and tribological performance of DLC films coated on rubber by magnetron sputtering. Surface and Coatings Technology, 2019, 365, 33-40.	2.2	29
68	Experimental and numerical investigation of the origin of surface roughness in laser powder bed fused overhang regions. Virtual and Physical Prototyping, 2021, 16, S66-S84.	5.3	29
69	Microstructure of laser-clad SiC-(Ni alloy) composite coating. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 194, 219-224.	2.6	28
70	Flexible protective diamond-like carbon film on rubber. Scripta Materialia, 2010, 63, 649-652.	2.6	28
71	Size effects and ductility of Al-based metallic glass. Scripta Materialia, 2012, 67, 344-347.	2.6	28
72	A methodology to determine anisotropy effects in non-cubic coatings. Surface and Coatings Technology, 2007, 201, 6911-6916.	2.2	27

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73	Synthesis of mixed alcohols with enhanced C3+ alcohol production by CO hydrogenation over potassium promoted molybdenum sulfide. Applied Catalysis B: Environmental, 2019, 246, 232-241.	10.8	27
74	Tribological behaviour of laser-clad TiCp composite coating. Wear, 1995, 185, 167-172.	1.5	26
75	Electro-Responsive Polystyrene Shape Memory Polymer Nanocomposites. Nanoscience and Nanotechnology Letters, 2012, 4, 814-820.	0.4	26
76	Microstructure evolutions of graded high-vanadium tool steel composite coating in-situ fabricated via atmospheric plasma beam alloying. Journal of Alloys and Compounds, 2017, 720, 169-181.	2.8	26
77	Enhanced C3+ alcohol synthesis from syngas using KCoMoSx catalysts: effect of the Co-Mo ratio on catalyst performance. Applied Catalysis B: Environmental, 2020, 272, 118950.	10.8	26
78	Strength of submicrometer diameter pillars of metallic glasses investigated within situtransmission electron microscopy. Philosophical Magazine Letters, 2009, 89, 633-640.	0.5	25
79	In situ compression study of taper-free metallic glass nanopillars. Applied Physics Letters, 2011, 98, .	1.5	25
80	Flexible diamond-like carbon films on rubber: Friction and the effect of viscoelastic deformation of rubber substrates. Acta Materialia, 2012, 60, 7216-7225.	3.8	24
81	Apparently homogeneous but intrinsically intermittent flow of taper-free metallic glass nanopillars. Scripta Materialia, 2012, 67, 947-950.	2.6	24
82	Template-Free Synthesis of Nanoporous Nickel and Alloys as Binder-Free Current Collectors of Li Ion Batteries. ACS Applied Nano Materials, 2018, 1, 2206-2218.	2.4	24
83	Microstructure and chemical bonding of DLC films deposited on ACM rubber by PACVD. Surface and Coatings Technology, 2011, 205, S75-S78.	2.2	23
84	An analytical method to predict and compensate for residual stress-induced deformation in overhanging regions of internal channels fabricated using powder bed fusion. Additive Manufacturing, 2019, 29, 100796.	1.7	23
85	Tribological performance of DLC films deposited on ACM rubber by PACVD. Surface and Coatings Technology, 2011, 205, 4838-4843.	2.2	22
86	Microstructure and tribological performance of diamond-like carbon films deposited on hydrogenated rubber. Thin Solid Films, 2012, 524, 218-223.	0.8	22
87	The Relationship between Bulk Silicone and Benzophenone-Initiated Hydrogel Coating Properties. Polymers, 2018, 10, 534.	2.0	22
88	TiNi shape memory alloy coated with tungsten: a novel approach for biomedical applications. Journal of Materials Science: Materials in Medicine, 2014, 25, 1249-1255.	1.7	21
89	Tribological behavior and thermal stability of TiCâˆ•a-C:H nanocomposite coatings. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1448-1453.	0.9	20
90	Microstructural and frictional control of diamond-like carbon films deposited on acrylic rubber by plasma assisted chemical vapor deposition. Thin Solid Films, 2011, 519, 2213-2217.	0.8	20

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91	On the nature of the coefficient of friction of diamond-like carbon films deposited on rubber. Journal of Applied Physics, 2012, 111, .	1.1	20
92	On the S/W stoichiometry and triboperformance of WSxC(H) coatings deposited by magnetron sputtering. Surface and Coatings Technology, 2019, 365, 41-51.	2.2	20
93	On the adhesion and wear resistance of DLC films deposited on nitrile butadiene rubber: A Ti-C interlayer. Diamond and Related Materials, 2020, 101, 107563.	1.8	20
94	Biomimetic Multiscale Hierarchical Topography Enhances Osteogenic Differentiation of Human Mesenchymal Stem Cells. Advanced Materials Interfaces, 2020, 7, 2000385.	1.9	20
95	Quantification of the recrystallization behaviour in Al-alloy AA1050. Journal of Materials Science, 2002, 37, 989-995.	1.7	19
96	Microstructure and tribological behavior of tungsten-containing diamondlike carbon coated rubbers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 1085-1092.	0.9	19
97	On the evolution of film roughness during magnetron sputtering deposition. Journal of Applied Physics, 2010, 108, 094330.	1.1	19
98	A Versatile Route for the Synthesis of Single Crystalline Oxide Nanorods: Growth Behavior and Field Emission Characteristics. Crystal Growth and Design, 2010, 10, 2585-2590.	1.4	19
99	Friction stir welding of Monel alloy at different heat input conditions: Microstructural mechanisms and tensile behavior. Materials Letters, 2019, 245, 94-97.	1.3	19
100	Electroactive Self-Healing Shape Memory Polymer Composites Based on Dielsâ€“Alder Chemistry. ACS Applied Polymer Materials, 2021, 3, 6147-6156.	2.0	19
101	Deposition and characterization of hydrogenated diamond-like carbon thin films on rubber seals. Thin Solid Films, 2010, 518, S42-S45.	0.8	18
102	On the evolution of nanocluster size distribution in a nanocluster aggregation source. Journal of Applied Physics, 2012, 111, .	1.1	18
103	On the control of deposition process for enhanced mechanical properties of nc-TiC/a-C:H coatings with DC magnetron sputtering at low or high ion flux. Surface and Coatings Technology, 2014, 255, 8-14.	2.2	18
104	Effect of bias voltage on the tribological and sealing properties of rubber seals modified by DLC films. Surface and Coatings Technology, 2019, 360, 391-399.	2.2	18
105	The tribological properties of short range ordered W-B-C protective coatings prepared by pulsed magnetron sputtering. Surface and Coatings Technology, 2019, 357, 364-371.	2.2	18
106	A study on the effect of chemical composition on the microstructural characteristics and mechanical performance of DP1000 resistance spot welds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139501.	2.6	18
107	Interfacial adhesion of laser clad functionally graded materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 342, 192-200.	2.6	17
108	Temperature-Adaptive Ultralubricity of a WS₂/a-C Nanocomposite Coating: Performance from Room Temperature up to 500 Â°C. ACS Applied Materials & Interfaces, 2021, 13, 28843-28854.	4.0	17

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109	On the dynamic roughening transition in nanocomposite film growth. Applied Physics Letters, 2009, 95, 223102.	1.5	16
110	Flexible diamond-like carbon film coated on rubber. Progress in Organic Coatings, 2013, 76, 1773-1778.	1.9	16
111	Microstructure and adhesion strength quantification of PVD bi-layered ZnMg-Zn coatings on DP800 steel. Surface and Coatings Technology, 2019, 359, 227-238.	2.2	16
112	Cracking behavior and formability of Zn-Al-Mg coatings: Understanding the influence of steel substrates. Materials and Design, 2021, 212, 110215.	3.3	15
113	Laser clad ZrO2î—¸Y2O3 ceramic/Ni-base alloy composite coatings. Ceramics International, 1995, 21, 131-136.	2.3	14
114	Reactive magnetron sputtering deposition and columnar growth of ncâ€ŦiCâˆ•aâ€C:H nanocomposite coatings. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1441-1447.	0.9	14
115	Surface roughness evolution of nanocomposite thin films. Journal of Applied Physics, 2009, 105, .	1.1	14
116	Fundamentals of the adhesion of physical vapor deposited ZnMg-Zn bilayer coatings to steel substrates. Materials and Design, 2020, 190, 108560.	3.3	14
117	Laser powder bed fusion of 17â€“4 PHÂstainless steel: A comparative study on the effect of heat treatment on the microstructure evolution and mechanical properties. Additive Manufacturing, 2021, 46, 102176.	1.7	14
118	Microstructure of bonding zones in laser-clad Ni-alloy-based composite coatings reinforced with various ceramic powders. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 391-400.	1.1	13
119	Influence of Plasma Treatments on the Frictional Performance of Rubbers. Tribology Letters, 2012, 47, 303-311.	1.2	13
120	Formation of metal F bonds during frictional sliding: Influence of water and applied load. Applied Surface Science, 2016, 368, 427-434.	3.1	13
121	Instant WS2 platelets reorientation of self-adaptive WS2/a-C tribocoating. Materials Letters, 2018, 229, 64-67.	1.3	13
122	Unraveling dislocation mediated plasticity and strengthening in crack-resistant ZnAlMg coatings. International Journal of Plasticity, 2021, 144, 103041.	4.1	13
123	New insights into the fracture behavior of advanced high strength steel resistance spot welds. Journal of Materials Processing Technology, 2022, 301, 117433.	3.1	13
124	The effect of grain refinement on the deformation and cracking resistance in Znâ€“Alâ€“Mg coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142995.	2.6	13
125	Tribological properties of nc-TiC/a-C:H coatings prepared by magnetron sputtering at low and high ion bombardment of the growing film. Surface and Coatings Technology, 2014, 241, 64-73.	2.2	12
126	Low-temperature synthesis of large-area graphene-based carbon films on Ni. Materials and Design, 2018, 144, 245-255.	3.3	12

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127	Effects of loading conditions on free surface roughening of AISI 420 martensitic stainless steel. Journal of Materials Processing Technology, 2020, 275, 116311.	3.1	12
128	Genesis and mechanism of microstructural scale deformation and cracking in ZnAlMg coatings. Materials and Design, 2020, 186, 108364.	3.3	12
129	Catalyst Performance Studies on the Guerbet Reaction in a Continuous Flow Reactor Using Mono- and Bi-Metallic Cu-Ni Porous Metal Oxides. Catalysts, 2020, 10, 996.	1.6	12
130	Formation of Î³-Al2O3 in reaction coatings produced with lasers. Scripta Materialia, 2001, 44, 643-649.	2.6	11
131	Synthesis of ultra-smooth and ultra-low friction DLC based nanocomposite films on rough substrates. Thin Solid Films, 2010, 519, 1618-1622.	0.8	11
132	Performance of diamond-like carbon-protected rubber under cyclic friction. II. Influence of substrate viscoelasticity on the friction evolution. Journal of Applied Physics, 2011, 110, .	1.1	11
133	Performance of diamond-like carbon-protected rubber under cyclic friction. I. Influence of substrate viscoelasticity on the depth evolution. Journal of Applied Physics, 2011, 110, .	1.1	11
134	Micro-patterned TiO2 films for photocatalysis. Materials Letters, 2019, 254, 448-451.	1.3	11
135	A Novel Approach to Structure Modification of Brasses by Combination of Non-equilibrium Heat Treatment and Friction Stir Processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 2391-2398.	1.1	11
136	Comments on â€œmicrostructural evolution during high-temperature oxidation of Ti2AlC ceramicsâ€• Scripta Materialia, 2011, 65, 930-932.	2.6	10
137	Copper-mediated homogeneous living radical polymerization of acrylamide with waxy potato starch-based macroinitiator. Carbohydrate Polymers, 2018, 192, 61-68.	5.1	10
138	Enhanced efficiency of self-healing of Cr2AlC. Materials Letters, 2018, 227, 51-54.	1.3	10
139	Micromechanical evaluation of DP1000-GI dual-phase high-strength steel resistance spot weld. Journal of Materials Science, 2019, 54, 1703-1715.	1.7	10
140	Nanoscale deformation in TiCâ•a-C multilayered nanocomposite coatings. Applied Physics Letters, 2008, 92, 241913.	1.5	9
141	Tribological Behavior of TiC/a-C:H-Coated and Uncoated Steels Sliding Against Phenolâ€“Formaldehyde Composite Reinforced with PTFE and Glass Fibers. Tribology Letters, 2013, 52, 123-135.	1.2	9
142	High throughput deposition of hydrogenated amorphous carbon coatings on rubber with expanding thermal plasma. Surface and Coatings Technology, 2014, 245, 74-83.	2.2	9
143	Smectite clay pillared with copper complexed polyhedral oligosilsesquioxane for adsorption of chloridazon and its metabolites. Environmental Science: Nano, 2020, 7, 424-436.	2.2	9
144	TEM Characterization of W-O-N Coatings. Microscopy and Microanalysis, 2008, 14, 27-30.	0.2	8

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145	Selective functionalization of patterned glass surfaces. Journal of Materials Chemistry B, 2014, 2, 2606-2615.	2.9	8
146	Effect of surface reactions on steel, Al2O3 and Si3N4 counterparts on their tribological performance with polytetrafluoroethylene filled composites. Applied Surface Science, 2015, 331, 482-489.	3.1	8
147	Low-temperature solid-state growth of three-dimensional bicontinuous nanoporous graphene with tunable porosity for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 11405-11415.	5.2	8
148	Self-healing of a pre-notched WS₂/a-C coating. Materials Research Letters, 2019, 7, 103-109.	4.1	8
149	Dynamic smoothing of nanocomposite films. Applied Physics Letters, 2010, 96, 151910.	1.5	7
150	In situ bending of layered compounds: The role of anisotropy in Ti2AlC microcantilevers. Scripta Materialia, 2014, 89, 21-24.	2.6	7
151	Optical and microstructural properties of Au alloyed Alâ€“O sputter deposited coatings. Thin Solid Films, 2016, 598, 65-71.	0.8	7
152	EFFECTS OF ANNEALING ON THE COMPOSITION, STRUCTURE AND PHOTOCATALYTIC PROPERTIES OF C-DOPED TITANIA FILMS DEPOSITED BY REACTIVE MAGNETRON SPUTTERING USING CO₂ AS CARBON SOURCE. Surface Review and Letters, 2019, 26, 1950036.	0.5	7
153	New insight into the loss of adhesion of ZnMg Zn bi-layered coatings on steel substrates. Surface and Coatings Technology, 2019, 370, 35-43.	2.2	7
154	MICROSTRUCTURE AND SLIDING WEAR PROPERTIES OF LASER CLAD TiN REINFORCED COMPOSITE COATING. Surface Engineering, 1996, 12, 55-60.	1.1	6
155	On the composition analysis of nc-TiC/a-Câ€‰:â€‰H nanocomposite coatings. Journal Physics D: Applied Physics, 2008, 41, 085402.	1.3	6
156	On the quantification of unbound hydrogen in diamond-like carbon-based thin films. Scripta Materialia, 2009, 61, 320-323.	2.6	6
157	Pulsed DC sputtered DLC based nanocomposite films: controlling growth dynamics, microstructure and frictional properties. Materials Technology, 2011, 26, 15-19.	1.5	6
158	Structural and functional properties of nanocomposite Auâ€“WO3 coatings. Surface and Coatings Technology, 2015, 280, 201-207.	2.2	6
159	Wear and Failure Mechanism of PTFE/SiO2/Epoxy Composites. Journal of Tribology, 2016, 138, .	1.0	6
160	Hard-yet-tough high-vanadium hierarchical composite coating: Microstructure and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 736, 87-99.	2.6	6
161	On the Selfâ€Repair of WS₂/aâ€C Tribocoating. Advanced Materials Interfaces, 2020, 7, 1900938.	1.9	6
162	Self-healing WS2 tribofilms: An in-situ appraisal of mechanisms. Scripta Materialia, 2021, 204, 114124.	2.6	6

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163	Evaluation of interface adhesion of hot-dipped zinc coating on TRIP steel with tensile testing and finite element calculation. WIT Transactions on Engineering Sciences, 2015, , .	0.0	6
164	TiC/a-C Nanocomposite Coatings for Low Friction and Wear Resistance. Materials Science Forum, 2005, 475-479, 3655-3660.	0.3	5
165	Wearable nanofiber-based triboelectric nanogenerator for body motion energy harvesting. , 2021, , .		5
166	Outstanding cracking resistance in Mg-alloyed zinc coatings achieved via crystallographic texture control. Scripta Materialia, 2022, 210, 114453.	2.6	5
167	On the abrasiveness and reinforcement of fillers in PTFE/epoxy composites. Polymer Composites, 2018, 39, 698-707.	2.3	4
168	High-resolution EBSD characterisation of friction stir welded nickelâ€“copper alloy: effect of the initial microstructure on microstructural evolution and mechanical properties. Philosophical Magazine, 2020, 100, 337-352.	0.7	4
169	Tailoring vapor-deposited ZnMgâ€“Zn bilayer coating for steels by diffusion-driven phase transformation. Journal of Alloys and Compounds, 2020, 836, 155448.	2.8	4
170	Effect of tempering temperature on microstructure and sliding wear property of laser quenched 4Cr13 steel. Wear, 1994, 177, 203-208.	1.5	3
171	On the significance of running-in of hard nc-TiC/a-C:H coating for short-term repeating machining. Surface and Coatings Technology, 2017, 315, 17-23.	2.2	3
172	Interfacial modification by lithiophilic oxide facilitating uniform and thin solid electrolyte interphase towards stable lithium metal anodes. Materials Today Energy, 2021, 21, 100748.	2.5	3
173	The Investigation of Microstructure, Photocatalysis and Corrosion Resistance of C-Doped Tiâ€“O Films Fabricated by Reactive Magnetron Sputtering Deposition with CO2 Gas. Coatings, 2021, 11, 881.	1.2	2
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