

# Yu-Tao Pei

## List of Publications by Year in descending order

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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	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
2	Outstanding cracking resistance in Mg-alloyed zinc coatings achieved via crystallographic texture control. Scripta Materialia, 2022, 210, 114453.	2.6	5
3	Fabric-Like Pvac-Graphene Nanofiber Capacitive Pressure Sensors For Next-Generation Wearables. , 2022, , .		0
4	The effect of grain refinement on the deformation and cracking resistance in Zn-Al-Mg coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142995.	2.6	13
5	Status and perspectives of hierarchical porous carbon materials in terms of high-performance lithium-sulfur batteries. , 2022, 4, 346-398.		65
6	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
7	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
8	Temperature-Adaptive Ultralubricity of a WS <sub>2</sub> /a-C Nanocomposite Coating: Performance from Room Temperature up to 500 Å°C. ACS Applied Materials & Interfaces, 2021, 13, 28843-28854.	4.0	17
9	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
10	Wearable nanofiber-based triboelectric nanogenerator for body motion energy harvesting. , 2021, , .		5
11	Bioinspired designs and biomimetic applications of triboelectric nanogenerators. Nano Energy, 2021, 84, 105865.	8.2	53
12	The Investigation of Microstructure, Photocatalysis and Corrosion Resistance of C-Doped TiO Films Fabricated by Reactive Magnetron Sputtering Deposition with CO <sub>2</sub> Gas. Coatings, 2021, 11, 881.	1.2	2
13	Unraveling dislocation mediated plasticity and strengthening in crack-resistant ZnAlMg coatings. International Journal of Plasticity, 2021, 144, 103041.	4.1	13
14	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
15	Laser powder bed fusion of 17% PH <sup>4</sup> stainless 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
16	Self-healing WS <sub>2</sub> tribofilms: An in-situ appraisal of mechanisms. Scripta Materialia, 2021, 204, 114124.	2.6	6
17	Cracking behavior and formability of Zn-Al-Mg coatings: Understanding the influence of steel substrates. Materials and Design, 2021, 212, 110215.	3.3	15
18	Electroactive Self-Healing Shape Memory Polymer Composites Based on Diels-Alder Chemistry. ACS Applied Polymer Materials, 2021, 3, 6147-6156.	2.0	19

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19	Effects of loading conditions on free surface roughening of AISI 420 martensitic stainless steel. <i>Journal of Materials Processing Technology</i> , 2020, 275, 116311.	3.1	12
20	On the adhesion and wear resistance of DLC films deposited on nitrile butadiene rubber: A Ti-C interlayer. <i>Diamond and Related Materials</i> , 2020, 101, 107563.	1.8	20
21	High-resolution EBSD characterisation of friction stir welded nickel-copper alloy: effect of the initial microstructure on microstructural evolution and mechanical properties. <i>Philosophical Magazine</i> , 2020, 100, 337-352.	0.7	4
22	Tailoring three-dimensional interconnected nanoporous graphene micro/nano-foams for lithium-sulfur batteries. <i>Carbon</i> , 2020, 157, 437-447.	5.4	30
23	Smectite clay pillared with copper complexed polyhedral oligosilsesquioxane for adsorption of chloridazon and its metabolites. <i>Environmental Science: Nano</i> , 2020, 7, 424-436.	2.2	9
24	Antimicrobial Electrodeposited Silver-Containing Calcium Phosphate Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 5531-5541.	4.0	67
25	Genesis and mechanism of microstructural scale deformation and cracking in ZnAlMg coatings. <i>Materials and Design</i> , 2020, 186, 108364.	3.3	12
26	On the Self-Repair of WS <sub>2</sub> Tribocoating. <i>Advanced Materials Interfaces</i> , 2020, 7, 1900938.	1.9	6
27	Catalyst Performance Studies on the Guerbet Reaction in a Continuous Flow Reactor Using Mono- and Bi-Metallic Cu-Ni Porous Metal Oxides. <i>Catalysts</i> , 2020, 10, 996.	1.6	12
28	A study on the effect of chemical composition on the microstructural characteristics and mechanical performance of DP1000 resistance spot welds. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139501.	2.6	18
29	Single and bundled carbon nanofibers as ultralightweight and flexible piezoresistive sensors. <i>Npj Flexible Electronics</i> , 2020, 4, .	5.1	30
30	Tailoring vapor-deposited ZnMg-Zn bilayer coating for steels by diffusion-driven phase transformation. <i>Journal of Alloys and Compounds</i> , 2020, 836, 155448.	2.8	4
31	Biomimetic Multiscale Hierarchical Topography Enhances Osteogenic Differentiation of Human Mesenchymal Stem Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000385.	1.9	20
32	Effect of titanium suboxide on the formation of anatase and rutile phases during annealing of C-Doped TiO <sub>2</sub> thin film deposited by DC magnetron sputtering. <i>Functional Materials Letters</i> , 2020, 13, 2051021.	0.7	0
33	Fundamentals of the adhesion of physical vapor deposited ZnMg-Zn bilayer coatings to steel substrates. <i>Materials and Design</i> , 2020, 190, 108560.	3.3	14
34	Enhanced C <sub>3+</sub> alcohol synthesis from syngas using KCoMoS <sub>x</sub> catalysts: effect of the Co-Mo ratio on catalyst performance. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118950.	10.8	26
35	EFFECTS OF ANNEALING ON THE COMPOSITION, STRUCTURE AND PHOTOCATALYTIC PROPERTIES OF C-DOPED TITANIA FILMS DEPOSITED BY REACTIVE MAGNETRON SPUTTERING USING CO <sub>2</sub> AS CARBON SOURCE. <i>Surface Review and Letters</i> , 2019, 26, 1950036.	0.5	7
36	Effect of sputtering pressure on the surface topography, structure, wettability and tribological performance of DLC films coated on rubber by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2019, 365, 33-40.	2.2	29

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37	An analytical method to predict and compensate for residual stress-induced deformation in overhanging regions of internal channels fabricated using powder bed fusion. <i>Additive Manufacturing</i> , 2019, 29, 100796.	1.7	23
38	Micro-patterned TiO <sub>2</sub> films for photocatalysis. <i>Materials Letters</i> , 2019, 254, 448-451.	1.3	11
39	Bioinspired Cilia Sensors with Graphene Sensing Elements Fabricated Using 3D Printing and Casting. <i>Nanomaterials</i> , 2019, 9, 954.	1.9	57
40	Ultralightweight and 3D Squeezable Graphene-Polydimethylsiloxane Composite Foams as Piezoresistive Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35201-35211.	4.0	96
41	Effect of bias voltage on the tribological and sealing properties of rubber seals modified by DLC films. <i>Surface and Coatings Technology</i> , 2019, 360, 391-399.	2.2	18
42	Synthesis of mixed alcohols with enhanced C <sub>3+</sub> alcohol production by CO hydrogenation over potassium promoted molybdenum sulfide. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 232-241.	10.8	27
43	New insight into the loss of adhesion of ZnMg Zn bi-layered coatings on steel substrates. <i>Surface and Coatings Technology</i> , 2019, 370, 35-43.	2.2	7
44	Mechanical and biological properties of electrodeposited calcium phosphate coatings. <i>Materials Science and Engineering C</i> , 2019, 100, 475-484.	3.8	43
45	A Novel Approach to Structure Modification of Brasses by Combination of Non-equilibrium Heat Treatment and Friction Stir Processing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 2391-2398.	1.1	11
46	Friction stir welding of Monel alloy at different heat input conditions: Microstructural mechanisms and tensile behavior. <i>Materials Letters</i> , 2019, 245, 94-97.	1.3	19
47	Micromechanical evaluation of DP1000-GI dual-phase high-strength steel resistance spot weld. <i>Journal of Materials Science</i> , 2019, 54, 1703-1715.	1.7	10
48	Self-healing of a pre-notched WS <sub>2</sub> /a-C coating. <i>Materials Research Letters</i> , 2019, 7, 103-109.	4.1	8
49	Three-dimensional micron-porous graphene foams for lightweight current collectors of lithium-sulfur batteries. <i>Carbon</i> , 2019, 144, 713-723.	5.4	65
50	Ultrashort pulsed laser ablation of stainless steels. <i>International Journal of Machine Tools and Manufacture</i> , 2019, 138, 27-35.	6.2	34
51	Microstructure and adhesion strength quantification of PVD bi-layered ZnMg-Zn coatings on DP800 steel. <i>Surface and Coatings Technology</i> , 2019, 359, 227-238.	2.2	16
52	The tribological properties of short range ordered W-B-C protective coatings prepared by pulsed magnetron sputtering. <i>Surface and Coatings Technology</i> , 2019, 357, 364-371.	2.2	18
53	Effect of stacking fault energy on the restoration mechanisms and mechanical properties of friction stir welded copper alloys. <i>Materials and Design</i> , 2019, 162, 185-197.	3.3	70
54	Development of self-healing epoxy composites via incorporation of microencapsulated epoxy and mercaptan in poly(methyl methacrylate) shell. <i>Polymer Testing</i> , 2019, 73, 395-403.	2.3	66

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55	On the S/W stoichiometry and triboperformance of WS <sub>x</sub> C(H) coatings deposited by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2019, 365, 41-51.	2.2	20
56	EFFECTS OF MAGNESIUM CONCENTRATION AND LAYER THICKNESS ON THE ADHESION OF PHYSICAL VAPOR DEPOSITED ZNMG-ZN BI-LAYER COATINGS. , 2019, , .		0
57	Low-temperature synthesis of large-area graphene-based carbon films on Ni. <i>Materials and Design</i> , 2018, 144, 245-255.	3.3	12
58	Template-Free Synthesis of Nanoporous Nickel and Alloys as Binder-Free Current Collectors of Li Ion Batteries. <i>ACS Applied Nano Materials</i> , 2018, 1, 2206-2218.	2.4	24
59	Copper-mediated homogeneous living radical polymerization of acrylamide with waxy potato starch-based macroinitiator. <i>Carbohydrate Polymers</i> , 2018, 192, 61-68.	5.1	10
60	Effect of pulse scheme on the microstructural evolution, residual stress state and mechanical performance of resistance spot welded DP1000-GI steel. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 649-658.	1.5	31
61	On the abrasiveness and reinforcement of fillers in PTFE/epoxy composites. <i>Polymer Composites</i> , 2018, 39, 698-707.	2.3	4
62	Crystal growth mechanism of calcium phosphate coatings on titanium by electrochemical deposition. <i>Surface and Coatings Technology</i> , 2018, 334, 526-535.	2.2	45
63	Hard-yet-tough high-vanadium hierarchical composite coating: Microstructure and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 736, 87-99.	2.6	6
64	Low-temperature solid-state growth of three-dimensional bicontinuous nanoporous graphene with tunable porosity for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11405-11415.	5.2	8
65	Instant WS <sub>2</sub> platelets reorientation of self-adaptive WS <sub>2</sub> /a-C tribocoating. <i>Materials Letters</i> , 2018, 229, 64-67.	1.3	13
66	Microstructural and mechanical properties of low-carbon ultra-fine bainitic steel produced by multi-step austempering process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 734, 329-337.	2.6	40
67	Enhanced efficiency of self-healing of Cr <sub>2</sub> AlC. <i>Materials Letters</i> , 2018, 227, 51-54.	1.3	10
68	The Relationship between Bulk Silicone and Benzophenone-Initiated Hydrogel Coating Properties. <i>Polymers</i> , 2018, 10, 534.	2.0	22
69	On the significance of running-in of hard nc-TiC/a-C:H coating for short-term repeating machining. <i>Surface and Coatings Technology</i> , 2017, 315, 17-23.	2.2	3
70	Microstructure evolutions of graded high-vanadium tool steel composite coating in-situ fabricated via atmospheric plasma beam alloying. <i>Journal of Alloys and Compounds</i> , 2017, 720, 169-181.	2.8	26
71	Mechanical behavior and failure mechanism of resistance spot welded DP1000 dual phase steel. <i>Materials and Design</i> , 2017, 124, 171-182.	3.3	73
72	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> , 2017, 332, 142-152.	2.2	30

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73	Hard-yet-tough high-vanadium high-speed steel composite coating in-situ alloyed on ductile iron by atmospheric plasma arc. <i>International Journal of Computational Methods and Experimental Measurements</i> , 2017, 6, 540-550.	0.1	1
74	Surface alloying of high-vanadium high-speed steel on ductile iron using plasma transferred arc technique: Microstructure and wear properties. <i>Materials and Design</i> , 2016, 100, 223-234.	3.3	57
75	Formation of metal F bonds during frictional sliding: Influence of water and applied load. <i>Applied Surface Science</i> , 2016, 368, 427-434.	3.1	13
76	Optical and microstructural properties of Au alloyed Al <sup>2</sup> O <sub>3</sub> sputter deposited coatings. <i>Thin Solid Films</i> , 2016, 598, 65-71.	0.8	7
77	Wear and Failure Mechanism of PTFE/SiO <sub>2</sub> /Epoxy Composites. <i>Journal of Tribology</i> , 2016, 138, .	1.0	6
78	Micro-mechanics of nanostructured carbon/shape memory polymer hybrid thin film. <i>Soft Matter</i> , 2016, 12, 106-114.	1.2	39
79	Effect of surface reactions on steel, Al <sub>2</sub> O <sub>3</sub> and Si <sub>3</sub> N <sub>4</sub> counterparts on their tribological performance with polytetrafluoroethylene filled composites. <i>Applied Surface Science</i> , 2015, 331, 482-489.	3.1	8
80	Structural and functional properties of nanocomposite Au <sup>2</sup> WO <sub>3</sub> coatings. <i>Surface and Coatings Technology</i> , 2015, 280, 201-207.	2.2	6
81	Wear and friction performance of PTFE filled epoxy composites with a high concentration of SiO <sub>2</sub> particles. <i>Wear</i> , 2015, 322-323, 171-180.	1.5	67
82	Evaluation of interface adhesion of hot-dipped zinc coating on TRIP steel with tensile testing and finite element calculation. <i>WIT Transactions on Engineering Sciences</i> , 2015, , .	0.0	6
83	Effect of lubricants and sliding conditions on the tribo-performance of SiO <sub>2</sub> /epoxy composites. <i>WIT Transactions on Engineering Sciences</i> , 2015, , .	0.0	0
84	High throughput deposition of hydrogenated amorphous carbon coatings on rubber with expanding thermal plasma. <i>Surface and Coatings Technology</i> , 2014, 245, 74-83.	2.2	9
85	Structural changes in polytetrafluoroethylene molecular chains upon sliding against steel. <i>Journal of Materials Science</i> , 2014, 49, 1484-1493.	1.7	35
86	TiNi shape memory alloy coated with tungsten: a novel approach for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 1249-1255.	1.7	21
87	Selective functionalization of patterned glass surfaces. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2606-2615.	2.9	8
88	In situ bending of layered compounds: The role of anisotropy in Ti <sub>2</sub> AlC microcantilevers. <i>Scripta Materialia</i> , 2014, 89, 21-24.	2.6	7
89	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. <i>Surface and Coatings Technology</i> , 2014, 255, 8-14.	2.2	18
90	Tribological properties of nc-TiC/a-C:H coatings prepared by magnetron sputtering at low and high ion bombardment of the growing film. <i>Surface and Coatings Technology</i> , 2014, 241, 64-73.	2.2	12

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91	Tribological Behavior of TiC/a-C:H-Coated and Uncoated Steels Sliding Against Phenol-Formaldehyde Composite Reinforced with PTFE and Glass Fibers. <i>Tribology Letters</i> , 2013, 52, 123-135.	1.2	9
92	Flexible diamond-like carbon film coated on rubber. <i>Progress in Organic Coatings</i> , 2013, 76, 1773-1778.	1.9	16
93	Oxide-scale growth on Cr <sub>2</sub> AlC ceramic and its consequence for self-healing. <i>Scripta Materialia</i> , 2013, 69, 203-206.	2.6	64
94	Healing performance of Ti <sub>2</sub> AlC ceramic studied with in situ microcantilever bending. <i>Journal of the European Ceramic Society</i> , 2013, 33, 383-391.	2.8	34
95	Multiplex Coatings. , 2013, , 2344-2354.		0
96	Flexible DLC film coated rubber: friction and the effect of viscoelastic deformation of rubber substrate. <i>WIT Transactions on Engineering Sciences</i> , 2013, , .	0.0	0
97	Electro-Responsive Polystyrene Shape Memory Polymer Nanocomposites. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 814-820.	0.4	26
98	On the nature of the coefficient of friction of diamond-like carbon films deposited on rubber. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	20
99	Microstructure and tribological performance of diamond-like carbon films deposited on hydrogenated rubber. <i>Thin Solid Films</i> , 2012, 524, 218-223.	0.8	22
100	Flexible diamond-like carbon films on rubber: On the origin of self-acting segmentation and film flexibility. <i>Acta Materialia</i> , 2012, 60, 5526-5535.	3.8	30
101	Flexible diamond-like carbon films on rubber: Friction and the effect of viscoelastic deformation of rubber substrates. <i>Acta Materialia</i> , 2012, 60, 7216-7225.	3.8	24
102	Apparently homogeneous but intrinsically intermittent flow of taper-free metallic glass nanopillars. <i>Scripta Materialia</i> , 2012, 67, 947-950.	2.6	24
103	On the evolution of nanocluster size distribution in a nanocluster aggregation source. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	18
104	Self-healing performance of Ti <sub>2</sub> AlC ceramic. <i>Journal of Materials Chemistry</i> , 2012, 22, 8304.	6.7	77
105	Ion energy distribution measurements in rf and pulsed dc plasma discharges. <i>Plasma Sources Science and Technology</i> , 2012, 21, 024004.	1.3	53
106	Influence of Plasma Treatments on the Frictional Performance of Rubbers. <i>Tribology Letters</i> , 2012, 47, 303-311.	1.2	13
107	Intrinsic and extrinsic size effects in the deformation of metallic glass nanopillars. <i>Acta Materialia</i> , 2012, 60, 889-898.	3.8	144
108	Size effects and ductility of Al-based metallic glass. <i>Scripta Materialia</i> , 2012, 67, 344-347.	2.6	28

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109	Performance of diamond-like carbon-protected rubber under cyclic friction. II. Influence of substrate viscoelasticity on the friction evolution. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	11
110	Performance of diamond-like carbon-protected rubber under cyclic friction. I. Influence of substrate viscoelasticity on the depth evolution. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	11
111	Microstructure and chemical bonding of DLC films deposited on ACM rubber by PACVD. <i>Surface and Coatings Technology</i> , 2011, 205, S75-S78.	2.2	23
112	High temperature healing of Ti <sub>2</sub> AlC: On the origin of inhomogeneous oxide scale. <i>Scripta Materialia</i> , 2011, 65, 135-138.	2.6	85
113	Comments on "microstructural evolution during high-temperature oxidation of Ti <sub>2</sub> AlC ceramics". <i>Scripta Materialia</i> , 2011, 65, 930-932.	2.6	10
114	TEM study of the initial oxide scales of Ti <sub>2</sub> AlC. <i>Acta Materialia</i> , 2011, 59, 5216-5223.	3.8	52
115	Influence of Surface Roughness on the Transfer Film Formation and Frictional Behavior of TiC/a-C Nanocomposite Coatings. <i>Tribology Letters</i> , 2011, 41, 97-101.	1.2	32
116	Tribological performance of DLC films deposited on ACM rubber by PACVD. <i>Surface and Coatings Technology</i> , 2011, 205, 4838-4843.	2.2	22
117	Ultra-high temperature ablation behavior of Ti <sub>2</sub> AlC ceramics under an oxyacetylene flame. <i>Journal of the European Ceramic Society</i> , 2011, 31, 855-862.	2.8	64
118	Microstructural and frictional control of diamond-like carbon films deposited on acrylic rubber by plasma assisted chemical vapor deposition. <i>Thin Solid Films</i> , 2011, 519, 2213-2217.	0.8	20
119	<i>In situ</i> compression study of taper-free metallic glass nanopillars. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	25
120	Pulsed DC sputtered DLC based nanocomposite films: controlling growth dynamics, microstructure and frictional properties. <i>Materials Technology</i> , 2011, 26, 15-19.	1.5	6
121	Flexible protective DLC films on rubber: fundamental concepts and applications. <i>WIT Transactions on Engineering Sciences</i> , 2011, , .	0.0	0
122	Flexible protective diamond-like carbon film on rubber. <i>Scripta Materialia</i> , 2010, 63, 649-652.	2.6	28
123	Deposition and characterization of hydrogenated diamond-like carbon thin films on rubber seals. <i>Thin Solid Films</i> , 2010, 518, S42-S45.	0.8	18
124	Synthesis of ultra-smooth and ultra-low friction DLC based nanocomposite films on rough substrates. <i>Thin Solid Films</i> , 2010, 519, 1618-1622.	0.8	11
125	Effect of process parameters on mechanical and tribological performance of pulsed-DC sputtered TiC/a-C:H nanocomposite films. <i>Surface and Coatings Technology</i> , 2010, 205, 2633-2642.	2.2	40
126	Influence of hardness and roughness on the tribological performance of TiC/a-C nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2010, 205, 2624-2632.	2.2	48



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127	Effects of size on the mechanical response of metallic glasses investigated through in situ TEM bending and compression experiments. <i>Acta Materialia</i> , 2010, 58, 189-200.	3.8	246
128	Tunable self-organization of nanocomposite multilayers. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	30
129	Dynamic smoothing of nanocomposite films. <i>Applied Physics Letters</i> , 2010, 96, 151910.	1.5	7
130	On the evolution of film roughness during magnetron sputtering deposition. <i>Journal of Applied Physics</i> , 2010, 108, 094330.	1.1	19
131	A Versatile Route for the Synthesis of Single Crystalline Oxide Nanorods: Growth Behavior and Field Emission Characteristics. <i>Crystal Growth and Design</i> , 2010, 10, 2585-2590.	1.4	19
132	Thermo-mechanical properties of polystyrene-based shape memory nanocomposites. <i>Journal of Materials Chemistry</i> , 2010, 20, 3442.	6.7	86
133	On the dynamic roughening transition in nanocomposite film growth. <i>Applied Physics Letters</i> , 2009, 95, 223102.	1.5	16
134	Strength of submicrometer diameter pillars of metallic glasses investigated within situ transmission electron microscopy. <i>Philosophical Magazine Letters</i> , 2009, 89, 633-640.	0.5	25
135	Surface roughness evolution of nanocomposite thin films. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	14
136	Nanoscale deformation mechanism of TiC/a-C nanocomposite thin films. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	29
137	On the quantification of unbound hydrogen in diamond-like carbon-based thin films. <i>Scripta Materialia</i> , 2009, 61, 320-323.	2.6	6
138	Mechanical properties of attapulgite clay reinforced polyurethane shape-memory nanocomposites. <i>European Polymer Journal</i> , 2009, 45, 1904-1911.	2.6	108
139	Adhesion improvement of hydrogenated diamond-like carbon thin films by pre-deposition plasma treatment of rubber substrate. <i>Surface and Coatings Technology</i> , 2009, 203, 1964-1970.	2.2	51
140	Growth of nanocomposite films: From dynamic roughening to dynamic smoothing. <i>Acta Materialia</i> , 2009, 57, 5156-5164.	3.8	31
141	Electron microscopy characterization of W-O multilayers. <i>Microscopy and Microanalysis</i> , 2009, 15, 59-60.	0.2	0
142	Dynamic smoothing and tribological properties of pulsed-DC sputtered DLC based nanocomposite films. , 2009, , .		0
143	Modification of rubber surface with DLC thin films for low friction and self lubrication. <i>WIT Transactions on Engineering Sciences</i> , 2009, , .	0.0	0
144	Microstructural control of TiC/a-C nanocomposite coatings with pulsed magnetron sputtering. <i>Acta Materialia</i> , 2008, 56, 696-709.	3.8	135

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145	Tribological behavior of W-DLC coated rubber seals. <i>Surface and Coatings Technology</i> , 2008, 202, 1869-1875.	2.2	67
146	Magnetron reactively sputtered Ti-DLC coatings on HNBR rubber: The influence of substrate bias. <i>Surface and Coatings Technology</i> , 2008, 202, 4939-4944.	2.2	49
147	Oxidation-induced crack healing in Ti <sub>3</sub> AlC <sub>2</sub> ceramics. <i>Scripta Materialia</i> , 2008, 58, 13-16.	2.6	198
148	Early stages of oxidation of Ti <sub>3</sub> AlC <sub>2</sub> ceramics. <i>Materials Chemistry and Physics</i> , 2008, 112, 762-768.	2.0	57
149	On the composition analysis of nc-TiC/a-C:H nanocomposite coatings. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 085402.	1.3	6
150	Nanoscale deformation in TiC/a-C multilayered nanocomposite coatings. <i>Applied Physics Letters</i> , 2008, 92, 241913.	1.5	9
151	Microstructure and tribological behavior of tungsten-containing diamondlike carbon coated rubbers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 1085-1092.	0.9	19
152	TEM Characterization of W-O-N Coatings. <i>Microscopy and Microanalysis</i> , 2008, 14, 27-30.	0.2	8
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