Dongyang Li

List of Publications by Year in descending order

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		76031	107981
245	7,060	42	68
papers	citations	h-index	g-index

247	247	247	5484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Achieving Superior Superplasticity in a Mgâ€“6Alâ€“Zn Plate via Multi-pass Submerged Friction Stir Processing. Acta Metallurgica Sinica (English Letters), 2022, 35, 757-762.	1.5	6
2	Can the H/E ratio be generalized as an index for the wear resistance of materials?. Materials Chemistry and Physics, 2022, 275, 125245.	2.0	18
3	Clarification of the Puzzled Effects of Cold Work on Wear of Metals from the Viewpoint of Wearing Energy Consumption. Tribology Letters, 2022, 70, 1.	1.2	3
4	The Yttrium-Incorporated Aluminizing of Mg-3%Al Alloy for Improved Tribological and Corrosion Properties. Journal of Materials Engineering and Performance, 2022, 31, 3218-3227.	1.2	1
5	Benefits of passive element Ti to the resistance of AlCrFeCoNi high-entropy alloy to corrosion and corrosive wear. Wear, 2022, 492-493, 204231.	1.5	16
6	Dependence of Interfacial Adhesion between Substances on Their Electron Work Functions. Langmuir, 2022, 38, 1672-1679.	1.6	3
7	DFT investigation of physical properties and electronic structure of metastable cubic CrC partially substituted with transitional metals. Journal of Applied Physics, 2022, 131, 085108.	1.1	1
8	Cyclic deformation behavior and fatigue life prediction of an automotive cast aluminum alloy: A new method of determining intrinsic fatigue toughness. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 725-738.	1.7	9
9	Doping Free and Amorphous NiO_x Film via UV Irradiation for Efficient Inverted Perovskite Solar Cells. Advanced Science, 2022, 9, e2201543.	5.6	23
10	Bridging the Interfacial Contact for Improved Stability and Efficiency of Inverted Perovskite Solar Cells. Small, 2022, 18, e2201694.	5.2	16
11	Microstructure, mechanical properties, corrosion and wear behavior of high-entropy alloy AlCoCrFeNix ($$x > 0$$the) and medium-entropy alloy ($$x = 0$$). Journal of Materials Science, 2022, 57, 11949-11968.	1.7	18
12	Green corrosion inhibitors for drilling operation: New derivatives of fatty acid-based inhibitors in drilling fluids for 1018 carbon steel in CO2-saturated KCl environments. Materials Chemistry and Physics, 2022, 288, 126406.	2.0	10
13	Protocol to predict mechanical properties of multi-element ceramics using machine learning. STAR Protocols, 2022, 3, 101552.	0.5	1
14	Effects of Mo and B Additives on Hardness and the Resistance of Cuâ€“Ni Alloy to Wear, Corrosion and Corrosive Wear. Metals and Materials International, 2021, 27, 4911-4921.	1.8	6
15	Nano-tribological behavior of high-entropy alloys CrMnFeCoNi and CrFeCoNi under different conditions: A molecular dynamics study. Wear, 2021, 476, 203583.	1.5	41
16	Understand the large difference in properties among coiled tubing steels having similar microstructures via electron work function analysis. Wear, 2021, 466-467, 203585.	1.5	2
17	Tailoring M7C3 carbide via electron work function-guided modification. Scripta Materialia, 2021, 190, 168-173.	2.6	19
18	Corrosive Wear Failures. , 2021, , 745-754.		0

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19	Microstructure â€“ electron work function relationship: A crucial step towards â€œelectronic metallurgyâ€. Materials Today Communications, 2021, 26, 101977.	0.9	2
20	Tuning the Conductivity and Electron Work Function of a Spin-Coated PEDOT:PSS/PEO Nanofilm for Enhanced Interfacial Adhesion. Langmuir, 2021, 37, 4924-4932.	1.6	1
21	(W_{1â€x},M_x)C carbides with desired combinations of compatible density and properties â€“ A firstâ€principles study. Journal of the American Ceramic Society, 2021, 104, 4239-4256.	1.9	7
22	Promoting in situ formation of coreâ€shell structured carbides in highâ€Cr cast irons by boron addition. Journal of the American Ceramic Society, 2021, 104, 4891-4901.	1.9	1
23	Electron work function: an indicative parameter towards a novel material design methodology. Scientific Reports, 2021, 11, 11565.	1.6	17
24	Stretch Formability of an AZ61 Alloy Plate Prepared by Multi-Pass Friction Stir Processing. Materials, 2021, 14, 3168.	1.3	3
25	Effect of Ti on the wear behavior of AlCoCrFeNi high-entropy alloy during unidirectional and bi-directional sliding wear processes. Wear, 2021, 476, 203650.	1.5	38
26	Contribution of cold-work to the wear resistance of materials and its limitation â€“ A study combining molecular dynamics modeling and experimental investigation. Wear, 2021, 476, 203642.	1.5	15
27	Antisolvent Engineering to Optimize Grain Crystallinity and Holeâ€Blocking Capability of Perovskite Films for Highâ€Performance Photovoltaics. Advanced Materials, 2021, 33, e2102816.	11.1	61
28	Hierarchical Morphology and Formation Mechanism of Collision Surface of Al/Steel Dissimilar Lap Joints via Electromagnetic Pulse Welding. Metals, 2021, 11, 1468.	1.0	5
29	Electron work function as an indicator for tuning the bulk modulus of MC carbide by metal-substitution: A first-principles computational study. Scripta Materialia, 2021, 204, 114148.	2.6	9
30	Designing high-entropy ceramics via incorporation of the bond-mechanical behavior correlation with the machine-learning methodology. Cell Reports Physical Science, 2021, 2, 100640.	2.8	10
31	Effect of loads on wear behavior of carbon steel surface with gradient microstructure at high temperature. Materials Letters, 2020, 261, 126999.	1.3	2
32	Effect of Ti addition on the sliding wear behavior of AlCrFeCoNi high-entropy alloy. Wear, 2020, 462-463, 203493.	1.5	31
33	A wearing energy model. Journal of Applied Physics, 2020, 128, 195105.	1.1	10
34	Wettability, electron work function and corrosion behavior of CoCrFeMnNi high entropy alloy films. Surface and Coatings Technology, 2020, 400, 126222.	2.2	27
35	Effect of Annealing Process on Microstructure, Texture, and Mechanical Properties of a Fe-Si-Cr-Mo-C Deep Drawing Dual-Phase Steel. Crystals, 2020, 10, 777.	1.0	5
36	First-principles studies on phase stability, anisotropic elastic and electronic properties of Al-La binary system intermetallic compounds. Materials Today Communications, 2020, 24, 101101.	0.9	7

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37	First-principles analysis on the role of rare-earth doping in affecting nitrogen adsorption and diffusion at Fe surface towards clarified catalytic diffusion mechanism in nitriding. Acta Materialia, 2020, 196, 347-354.	3.8	37
38	Influence of UV light irradiation on the corrosion behavior of electrodeposited Ni and Cu nanocrystalline foils. Scientific Reports, 2020, 10, 3049.	1.6	14
39	Bifunctional Ultrathin PCBM Enables Passivated Trap States and Cascaded Energy Level toward Efficient Inverted Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 20103-20109.	4.0	35
40	Towards Simplifying the Device Structure of Highâ€Performance Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2000863.	7.8	67
41	Nonlinearity of Material Loss Versus the Wearing Force. Jom, 2019, 71, 4274-4283.	0.9	0
42	Effect of Co-alloying Ti and V on microstructure, mechanical and tribological properties of (Wx,Tiy,V1-x-y)Câ€“Co alloys: A combined theoretical and experimental study. Journal of Alloys and Compounds, 2019, 803, 379-393.	2.8	1
43	In Situ AFM Analysis of Surface Electron Behaviors of Strainâ€Free and Deformed Ferrite and Austenite in Duplex Steel and Their Correlation with Electron Work Function. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800933.	0.8	1
44	Effect of trace Ni on the resistance of high-Cr cast iron to slurry erosion. Wear, 2019, 426-427, 605-611.	1.5	11
45	Effect of recovery treatment on the wear resistance of surface hammered AZ31 Mg alloy. Wear, 2019, 426-427, 981-988.	1.5	15
46	A computational study on the effect of minor yttrium on the interfacial adherence of Al oxide film to aluminum substrate. Journal of Physics Condensed Matter, 2019, 31, 295003.	0.7	2
47	An Investigation of Friction Coefficient on Microstructure and Texture Evolution of Interstitial-Free Steel during Warm Rolling and Subsequent Annealing. Crystals, 2019, 9, 565.	1.0	5
48	Effect of induction remelting on the microstructure and properties of in situ TiN-reinforced NiCrBSi composite coatings. Surface and Coatings Technology, 2018, 340, 159-166.	2.2	33
49	Elevate the corrosion potential of Zn coatings using ceramic nanoparticles. Journal of Solid State Electrochemistry, 2018, 22, 1949-1955.	1.2	3
50	Instrumented indentation study of bainite/martensite duplex microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 713, 1-6.	2.6	14
51	An electron work function based mechanism for solid solution hardening. Journal of Alloys and Compounds, 2018, 737, 323-329.	2.8	15
52	Understanding the Effect of Ni on Mechanical and Wear Properties of Low-Carbon Steel from a View-Point of Electron Work Function. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 2612-2621.	1.1	7
53	First-principles study on influence of molybdenum on acicular ferrite formation on TiC particles in microallyed steels. Solid State Communications, 2018, 269, 102-107.	0.9	4
54	Comparison of Microstructure and Properties of In-Situ TiN- and WC-Reinforced NiCrBSi Composite Coatings Prepared by Plasma Spraying. Materials, 2018, 11, 2182.	1.3	8

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55	Effect of UV light illumination on the corrosion behavior of electrodeposited TiO2-Ni composite foils. Applied Surface Science, 2018, 462, 291-302.	3.1	12
56	Formation of core (M7C3)-shell (M23C6) structured carbides in white cast irons: A thermo-kinetic analysis. Computational Materials Science, 2018, 154, 111-121.	1.4	23
57	Microstructure and Mechanical Properties of Ultrasonic Spot Welded Mg/Al Alloy Dissimilar Joints. Metals, 2018, 8, 229.	1.0	25
58	Understanding the Effect of Plastic Deformation on Elastic Modulus of Metals Based on a Percolation Model with Electron Work Function. Jom, 2018, 70, 1130-1135.	0.9	13
59	Tribological properties of AZ31 alloy pre-deformed at low and high strain rates via the work function. Wear, 2018, 414-415, 126-135.	1.5	11
60	Crystallographic anisotropy in surface properties of brass and its dependence on the electron work function. Journal of Applied Crystallography, 2018, 51, 1715-1720.	1.9	2
61	A simple template-free immersion process to fabricate ZnO nanowire films on nanocrystalline zinc substrate at room temperature. Materials Letters, 2017, 192, 68-71.	1.3	1
62	Maximizing the benefit of aluminizing to AZ31 alloy by surface nanocrystallization for elevated resistance to wear and corrosive wear. Tribology International, 2017, 111, 211-219.	3.0	27
63	Failure Behavior of Plasma-Sprayed Yttria-Stabilized Zirconia Thermal Barrier Coatings Under Three-Point Bending Test via Acoustic Emission Technique. Journal of Thermal Spray Technology, 2017, 26, 116-131.	1.6	16
64	Potential application of electron work function in analyzing fracture toughness of materials. Journal of Materials Science and Technology, 2017, 33, 1128-1133.	5.6	9
65	Improve the performance of Cr-free passivation film through nanoelectrodeposition for replacement of toxic Cr 6+ passivation in electrogalvanizing process. Surface and Coatings Technology, 2017, 324, 146-152.	2.2	11
66	Understanding effects of Cr content on the slurry erosion behavior of high-Cr cast irons through local property mapping and computational analysis. Wear, 2017, 376-377, 587-594.	1.5	17
67	Catalytic growth of diamond-like carbon on Fe3C-containing carburized layer through a single-step plasma-assisted carburizing process. Carbon, 2017, 122, 1-8.	5.4	49
68	Mechanical characteristics of FeAl2O4 and AlFe2O4 spinel phases in coatings â€“ A study combining experimental evaluation and first-principles calculations. Ceramics International, 2017, 43, 16094-16100.	2.3	19
69	Electron work function â€“ a probe for interfacial diagnosis. Scientific Reports, 2017, 7, 9673.	1.6	20
70	Produce mirror-shining surface of electrogalvanized steel with significantly elevated scratch resistance through combined nanoelectrodeposition and passivation treatment. Wear, 2017, 376-377, 1707-1712.	1.5	4
71	Carbon adsorption on doped cementite surfaces for effective catalytic growth of diamond-like carbon: a first-principles study. Physical Chemistry Chemical Physics, 2017, 19, 32341-32348.	1.3	13
72	Improvement in erosion-corrosion resistance of high-chromium cast irons by trace boron. Wear, 2017, 376-377, 578-586.	1.5	17

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73	The role of minor yttrium in tailoring the failure resistance of surface oxide film formed on Mg alloys. Thin Solid Films, 2016, 615, 29-37.	0.8	11
74	Interfacial valence electron localization and the corrosion resistance of Al-SiC nanocomposite. Scientific Reports, 2016, 5, 18154.	1.6	44
75	Electrodeposition of nanocrystalline zinc on steel for enhanced resistance to corrosive wear. Surface and Coatings Technology, 2016, 304, 567-573.	2.2	43
76	A computational study on the benefit of core-shell structured carbides to the erosion resistance of high-Cr cast irons. Tribology International, 2016, 103, 432-439.	3.0	8
77	Effect of graphite content on the wear behavior of Al/2SiC/Gr hybrid nano-composites respectively in the ambient environment and an acidic solution. Tribology International, 2016, 103, 620-628.	3.0	55
78	Electron work functions of ferrite and austenite phases in a duplex stainless steel and their adhesive forces with AFM silicon probe. Scientific Reports, 2016, 6, 20660.	1.6	42
79	Electron work functionâ€“a promising guiding parameter for material design. Scientific Reports, 2016, 6, 24366.	1.6	55
80	Incorporating TiO2 nanotubes with a peptide of D-amino K122-4 (D) for enhanced mechanical and photocatalytic properties. Scientific Reports, 2016, 6, 22247.	1.6	5
81	Understanding the low corrosion potential and high corrosion resistance of nano-zinc electrodeposit based on electron work function and interfacial potential difference. RSC Advances, 2016, 6, 97606-97612.	1.7	14
82	Explore the electron work function as a promising indicative parameter for supplementary clues towards tailoring of wear-resistant materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 669, 396-402.	2.6	7
83	Electron work function: a novel probe for toughness. Physical Chemistry Chemical Physics, 2016, 18, 4753-4759.	1.3	25
84	Effect of particle size on the surface activity of TiCâ€“Ni composite coating via the interfacial valence electron localization. RSC Advances, 2016, 6, 18793-18799.	1.7	12
85	Variations in erosive wear of metallic materials with temperature via the electron work function. Materials Chemistry and Physics, 2016, 172, 197-201.	2.0	3
86	Understanding the corrosion behavior of isomorphous Cuâ€“Ni alloy from its electron work function. Materials Chemistry and Physics, 2016, 173, 238-245.	2.0	32
87	Microstructure and Texture Evolution in a Yttrium-Containing ZM31 Alloy: Effect of Pre- and Post-deformation Annealing. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 3318-3325.	1.0	3
88	Effect of cryogenic treatment on the residual surface stress introduced by grinding. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2015, 9, JAMDSM0029-JAMDSM0029.	0.3	1
89	A study on nanoscale gradient alloying induced by a punching deformation process on low carbon steel. Materials Letters, 2015, 158, 45-48.	1.3	3
90	Beneficial Effects of the Coreâ€“Shell Structure of Primary Carbides in High-Cr (45Âwt%) White Cast Irons on Their Mechanical Behavior and Wear Resistance. Tribology Letters, 2015, 58, 1.	1.2	19

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91	Correlation between the wear resistance of Cu-Ni alloy and its electron work function. Philosophical Magazine, 2015, 95, 3896-3909.	0.7	6
92	A first-principles study on the mechanical and thermodynamic properties of (Nb_{1â^'x}Ti_x)C complex carbides based on virtual crystal approximation. RSC Advances, 2015, 5, 103686-103694.	1.7	22
93	Variation in electron work function with temperature and its effect on the Youngâ€™s modulus of metals. Scripta Materialia, 2015, 99, 41-44.	2.6	35
94	The electronic origin of strengthening and ductilizing magnesium by solid solutes. Acta Materialia, 2015, 89, 225-233.	3.8	62
95	In situ investigation of local corrosion at interphase boundary under an electrochemical-atomic force microscope. Journal of Solid State Electrochemistry, 2015, 19, 337-344.	1.2	13
96	The relationship between the electron work function and friction behavior of passive alloys under different conditions. Applied Surface Science, 2015, 351, 316-319.	3.1	15
97	Characterization of hot deformation behavior of an extruded Mgâ€“Znâ€“Mnâ€“Y alloy containing LPSO phase. Journal of Alloys and Compounds, 2015, 644, 814-823.	2.8	68
98	Effect of Annealing Treatment on Mechanical Properties of Nanocrystalline Î±-iron: an Atomistic Study. Scientific Reports, 2015, 5, 8459.	1.6	37
99	Positive effect of yttrium on the reduction of pores in cast Al alloy. Materials Chemistry and Physics, 2015, 149-150, 140-144.	2.0	6
100	Understanding the bond-energy, hardness, and adhesive force from the phase diagram via the electron work function. Journal of Applied Physics, 2014, 116, .	1.1	14
101	Effects of aluminum content and strain rate on strain hardening behavior of cast magnesium alloys during compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 594, 235-245.	2.6	62
102	Correlation between the electron work function of metals and their bulk moduli, thermal expansion and heat capacity via the Lennard-Jones potential. Physica Status Solidi (B): Basic Research, 2014, 251, 815-820.	0.7	19
103	Corrosion and corrosive wear behavior of WCâ€“MgO composites with and without grain-growth inhibitors. Journal of Alloys and Compounds, 2014, 615, 146-155.	2.8	18
104	Effects of nano-scale grain boundaries in Cu on its Bauschinger's effect and response to cyclic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 583, 140-150.	2.6	10
105	Hydrophobic Nano-Silica for the Surface Modification of Graphite Flake. Propellants, Explosives, Pyrotechnics, 2013, 38, 520-524.	1.0	1
106	Influence of Nanotwin Boundary on the Bauschingerâ€™s Effect in Cu: A Molecular Dynamics Simulation Study. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 4207-4217.	1.1	12
107	Effects of the dissolved oxygen and slurry velocity on erosionâ€“corrosion of carbon steel in aqueous slurries with carbon dioxide and silica sand. Wear, 2013, 302, 1609-1614.	1.5	59
108	Modification of carbidic austempered ductile iron with nano ceria for improved mechanical properties and abrasive wear resistance. Wear, 2013, 301, 116-121.	1.5	45

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109	Beneficial effects of yttrium on the performance of Mgâ€“3%Al alloy during wear, corrosion and corrosive wear. Tribology International, 2013, 67, 154-163.	3.0	29
110	Experimental and Simulation Studies on the Solid-Particle Erosion of WC-MgO Composites. Tribology Letters, 2013, 52, 501-510.	1.2	5
111	Mechanical properties and erosion resistance of ceria nano-particle-doped ultrafine WCâ€“12Co composite prepared by spark plasma sintering. Wear, 2013, 301, 406-414.	1.5	35
112	Corrosive wear resistance of Mgâ€“Alâ€“Zn alloys with alloyed yttrium. Wear, 2013, 302, 1624-1632.	1.5	29
113	Wear of hydrotransport lines in Athabasca oil sands. Wear, 2013, 301, 477-482.	1.5	26
114	Understanding the influence of microstructure features on the erosion resistance of low-carbon pipeline steel through computational simulation. Wear, 2013, 301, 70-75.	1.5	2
115	Surface Nanocrystalline of Martensite Steel Induced by Sandblasting at High Temperature. Advanced Engineering Materials, 2013, 15, 476-479.	1.6	7
116	Performances of hybrid high-entropy high-Cr cast irons during sliding wear and air-jet solid-particle erosion. Wear, 2013, 301, 390-397.	1.5	28
117	Microstructure refinement of hypereutectic high Cr cast irons using hard carbide-forming elements for improved wear resistance. Wear, 2013, 301, 695-706.	1.5	91
118	Dependence of the mechanical behavior of alloys on their electron work functionâ€”An alternative parameter for materials design. Applied Physics Letters, 2013, 103, .	1.5	49
119	Further look at correlation between ASTM G65 rubber wheel abrasion and pin-on-disc wear tests for data conversion. Tribology - Materials, Surfaces and Interfaces, 2013, 7, 109-113.	0.6	4
120	Is it effective to harvest visible light by decreasing the band gap of photocatalytic materials?. Applied Physics Letters, 2012, 100, .	1.5	7
121	The correlation between the electron work function and yield strength of metals. Physica Status Solidi (B): Basic Research, 2012, 249, 1517-1520.	0.7	43
122	Application ofin situmeasurement of photo-induced variations in electron work function for in-depth understanding of the photocatalytic activity of TiO2nanotubes. Nanotechnology, 2012, 23, 275704.	1.3	7
123	Nanocrystallization of Ag-incorporated stainless steel surface for enhanced resistance to corrosion and bacterial colonization. Philosophical Magazine Letters, 2011, 91, 697-704.	0.5	6
124	Generic relation between the electron work function and Young's modulus of metals. Applied Physics Letters, 2011, 99, .	1.5	91
125	Z-Scheme Photocatalytic System Utilizing Separate Reaction Centers by Directional Movement of Electrons. Journal of Physical Chemistry C, 2011, 115, 8586-8593.	1.5	49
126	Bauschinger effect in wear of Cuâ€“40Zn alloy and its variations with the wear condition. Wear, 2011, 271, 1237-1243.	1.5	14

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127	A further simulation study on the dual role of porosity in solid-particle erosion of materials. Wear, 2011, 271, 1325-1330.	1.5	8
128	Microstructure of high (45wt.%) chromium cast irons and their resistances to wear and corrosion. Wear, 2011, 271, 1426-1431.	1.5	91
129	Improving the wear resistance of white cast iron using a new concept â€“ High-entropy microstructure. Wear, 2011, 271, 1623-1628.	1.5	71
130	Simulation of corrosion-erosion of passive metals using a micro-scale dynamical model. Wear, 2011, 271, 1404-1410.	1.5	18
131	Application of a simple surface nanocrystallization process to a Cuâ€“30Ni alloy for enhanced resistances to wear and corrosive wear. Wear, 2011, 271, 1224-1230.	1.5	25
132	Abnormal erosionâ€“slurry velocity relationship of high chromium cast iron with high carbon concentrations. Wear, 2011, 271, 1454-1461.	1.5	28
133	Baushingerâ€™s Effect in Wear of Materials. Tribology Letters, 2011, 41, 569-572.	1.2	12
134	A Follow-up Study on Bauschingerâ€™s Effect in Bidirectional Wear of Cu-40%Zn against Different Types of Counter-Face. Tribology Letters, 2011, 43, 101-106.	1.2	8
135	Molecular dynamics simulation of Bauschingerâ€™s effect in deformed copper single crystal in different strain ranges. Journal of Applied Physics, 2011, 110, 124911.	1.1	12
136	A closer look at the local responses of twin and grain boundaries in Cu to stress at the nanoscale with possible transition from the Pâ€“H to the inverse Pâ€“H relation. Acta Materialia, 2010, 58, 2677-2684.	3.8	12
137	Defect generation in nano-twinned, nano-grained and single crystal Cu systems caused by wear: A molecular dynamics study. Scripta Materialia, 2010, 63, 1116-1119.	2.6	20
138	A simple technique of nanocrystallizing metallic surfaces for enhanced resistances to mechanical and electrochemical attacks. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2875-2880.	2.6	15
139	Surface Nanocrystallization for Bacterial Control. Langmuir, 2010, 26, 10930-10934.	1.6	20
140	Can severe plastic deformation alone generate a nanocrystalline structure?. Philosophical Magazine Letters, 2010, 90, 349-360.	0.5	15
141	Roles of Microtubule Bias and Joining in the Self-Organization of Microtubule Driven by Dynein C - A Modeling Study. , 2009, , .		0
142	Spherical indentation for determining the phase transition properties of shape memory alloys. Journal of Materials Research, 2009, 24, 1082-1086.	1.2	20
143	Optimization of micro-indentation conditions for evaluation of interfacial bond strength: A finite element approach. Thin Solid Films, 2009, 517, 5259-5264.	0.8	2
144	Surface nanocrystallization of Al-plated steel for application in the exhaust system of vehicles. Wear, 2009, 267, 345-349.	1.5	22

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145	Variations in microstructure of high chromium cast irons and resultant changes in resistance to wear, corrosion and corrosive wear. Wear, 2009, 267, 116-121.	1.5	89
146	Is porosity always detrimental to the wear resistance of materials?â€”A computational study on the effect of porosity on erosive wear of TiC/Cu composites. Wear, 2009, 267, 1153-1159.	1.5	33
147	Effects of titanium addition on microstructure and wear resistance of hypereutectic high chromium cast iron Feâ€“25wt.%Crâ€“4wt.%C. Wear, 2009, 267, 356-361.	1.5	124
148	Nanocrystallization of aluminized surface of carbon steel for enhanced resistances to corrosion and corrosive wear. Electrochimica Acta, 2009, 55, 118-124.	2.6	22
149	Fabrication, Geometry, and Mechanical Properties of Highly Ordered TiO₂ Nanotubular Arrays. Journal of Physical Chemistry C, 2009, 113, 7107-7113.	1.5	31
150	A combination of Al diffusion and surface nanocrystallization of carbon steel for enhanced corrosion resistance. Philosophical Magazine Letters, 2009, 89, 231-240.	0.5	2
151	A New Phenomenon Observed in Determining the Wear-Corrosion Synergy During a Corrosive Sliding Wear Test. Tribology Letters, 2008, 29, 45-52.	1.2	13
152	A Further Study of the Beneficial Effects of Yttrium on Oxide Scale Properties and High-Temperature Wear of Stellite 21. Tribology Letters, 2008, 30, 27-34.	1.2	7
153	The mechanisms of interfacial failure for lateral force-sensing microindentation test: finite element analysis. Acta Materialia, 2008, 56, 6197-6204.	3.8	11
154	Sulfur-Doped Highly Ordered TiO₂ Nanotubular Arrays with Visible Light Response. Journal of Physical Chemistry C, 2008, 112, 5405-5409.	1.5	192
155	Production of alloyed nanocrystalline surfaces by combined punching, sandblasting and recovery treatments. Scripta Materialia, 2008, 58, 1090-1093.	2.6	23
156	Surface nanocrystallization of stainless steel for reduced biofilm adherence. Nanotechnology, 2008, 19, 335101.	1.3	19
157	Nanocrystallization effect on the surface electron work function of copper and its corrosion behaviour. Philosophical Magazine Letters, 2008, 88, 137-144.	0.5	27
158	A computational study of the improvement in wear resistance of a pseudoelastic TiNi matrix composite achieved by adding TiN nanoparticles. Smart Materials and Structures, 2007, 16, S63-S70.	1.8	1
159	Prediction of elastic-contact friction of transition metals under light loads based on their electron work functions. Journal Physics D: Applied Physics, 2007, 40, 5980-5983.	1.3	11
160	Statistical method for evaluating and ranking lubricants through micromechanical heterogeneity mapping of surfaces that experienced lubricated sliding. Tribology - Materials, Surfaces and Interfaces, 2007, 1, 80-86.	0.6	0
161	Effects of the strain rate of prior deformation on the wearâ€“corrosion synergy of carbon steel. Wear, 2007, 263, 801-807.	1.5	18
162	The wear performance of yttrium-modified Stellite 712 at elevated temperatures. Tribology International, 2007, 40, 254-265.	3.0	28

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163	Effects of Y2O3 addition on microstructure, mechanical properties, electrochemical behavior, and resistance to corrosive wear of aluminum. Tribology International, 2007, 40, 188-199.	3.0	51
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