Han Huang

List of Publications by Year
in descending order

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319 papers	11,103 citations	28242 55 h-index	48277 88 g-index
327 all docs	327 docs citations	327 times ranked	8503 citing authors

#	Article	IF	Citations
1	Temperature and size dependent mechanical properties of vapor synthesized zinc tungstate nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 136, 114990.	1.3	6
2	Unveiling solidification mode transition and crystallographic characteristics in laser 3D-printed Al2O3-ZrO2 eutectic ceramics. Scripta Materialia, 2022, 210, 114433.	2.6	12
3	Interfacial adhesion assessment of SiN/GaAs film/substrate system using microcantilever bending technique. Journal Physics D: Applied Physics, 2022, 55, 245104.	1.3	1
4	Threshold damage mechanisms in brittle solids and their impact on advanced technologies. Acta Materialia, 2022, 232, 117921.	3.8	19
5	Frictional shear stress of ZnO nanowires on natural and pyrolytic graphite substrates. Friction, 2022, 10, 2059-2068.	3.4	2
6	Deformation and removal mechanism of single crystal gallium nitride in nanoscratching. Ceramics International, 2022, 48, 23793-23799.	2.3	7
7	Multicolor Biexciton Lasers Based on 2D Perovskite Single Crystalline Flakes. Advanced Optical Materials, 2022, 10, .	3.6	7
8	Towards tailorable interface microstructure through Solid-state interface reaction between synthetic diamond grits and sputtered Ni-Cr binary alloy. Applied Surface Science, 2022, 596, 153531.	3.1	10
9	Tribological performance of zeolite/sodium dodecylbenzenesulfonate hybrid water-based lubricants. Applied Surface Science, 2022, 598, 153764.	3.1	2
10	Size- and temperature-dependent Youngâ€™s modulus of individual ZnS nanobelts. Journal Physics D: Applied Physics, 2022, 55, 364001.	1.3	0
11	Grinding and lapping induced surface integrity of silicon wafers and its effect on chemical mechanical polishing. Applied Surface Science, 2022, 599, 153982.	3.1	51
12	A novel lapping process for single-crystal sapphire using hybrid nanoparticle suspensions. International Journal of Mechanical Sciences, 2021, 191, 106099.	3.6	26
13	Micromechanics of machining and wear in hard and brittle materials. Journal of the American Ceramic Society, 2021, 104, 5-22.	1.9	63
14	A cost-effective Fe-rich compositionally complicated alloy with superior high-temperature oxidation resistance. Corrosion Science, 2021, 180, 109190.	3.0	28
15	Science and art of ductile grinding of brittle solids. International Journal of Machine Tools and Manufacture, 2021, 161, 103675.	6.2	138
16	Interfacial and tribological properties of laser deposited TiOxNy/Ti composite coating on Ti alloy. Tribology International, 2021, 155, 106758.	3.0	17
17	Catalyst-free synthesis and mechanical characterization of TaC nanowires. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	10
18	Hydrolytic degradation of porous poly(hydroxybutyrate-co-hydroxyvalerate) scaffolds manufactured using selective laser sintering. Polymer Degradation and Stability, 2021, 187, 109545.	2.7	12

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19	Temperature coefficient of Youngâ€™s modulus of silver microwhiskers determined by a laser Doppler vibration measurement. Modern Physics Letters B, 2021, 35, 2150350.	1.0	2
20	The removal mechanism and force modelling of gallium oxide single crystal in single grit grinding and nanoscratching. International Journal of Mechanical Sciences, 2021, 204, 106562.	3.6	33
21	Roughness-dependent tribological characteristics of water-based GO suspensions with ZrO2 and TiO2 nanoparticles as additives. Tribology International, 2021, 161, 107073.	3.0	16
22	Laser gas alloying of Ti-6Al-4V in air for tribological applications. Applied Surface Science, 2021, 570, 151125.	3.1	3
23	Polishing performance and mechanism of a water-based nanosuspension using diamond particles and GO nanosheets as additives. Tribology International, 2021, 164, 107241.	3.0	12
24	Size- and temperature-dependent Young's modulus of SiC nanowires determined by a laser-Doppler vibration measurement. Applied Physics Letters, 2021, 118, .	1.5	12
25	A comparative study on the dielectric response and microwave absorption performance of FeNi-capped carbon nanotubes and FeNi-cored carbon nanoparticles. Nanotechnology, 2021, 32, 105701.	1.3	20
26	Water-based nanosuspensions: Formulation, tribological property, lubrication mechanism, and applications. Journal of Manufacturing Processes, 2021, 71, 625-644.	2.8	39
27	The adhesion of a mica nanolayer on a single-layer graphene supported by SiO₂ substrate characterised in air. Nanotechnology, 2021, 32, 045701.	1.3	3
28	Microstructures and mechanical properties of wear-resistant titanium oxide coatings deposited on Ti-6Al-4V alloy using laser cladding. Journal of the European Ceramic Society, 2020, 40, 798-810.	2.8	34
29	Photocatalytic enhancement of hydrogen production in water splitting under simulated solar light by band gap engineering and localized surface plasmon resonance of ZnxCd1-xS nanowires decorated by Au nanoparticles. Nano Energy, 2020, 67, 104225.	8.2	69
30	Reactive wetting of Sn-V solder alloys on polycrystalline CVD diamond. Applied Surface Science, 2020, 504, 144508.	3.1	9
31	Machining characteristics and mechanism of GO/SiO2 nanoslurries in fixed abrasive lapping. Journal of Materials Processing Technology, 2020, 277, 116444.	3.1	26
32	A novel method to 3D-print fine-grained AlSi10Mg alloy with isotropic properties via inoculation with LaB6 nanoparticles. Additive Manufacturing, 2020, 32, 101034.	1.7	41
33	Deformation characteristics and surface generation modelling of crack-free grinding of GGG single crystals. Journal of Materials Processing Technology, 2020, 279, 116577.	3.1	100
34	New insights into the growth mechanism of 3D-printed Al2O3â€“Y3Al5O12 binary eutectic composites. Scripta Materialia, 2020, 178, 274-280.	2.6	22
35	The Adhesion of Mica Nanolayers on a Silicon Substrate in Air. Advanced Materials Interfaces, 2020, 7, 2000541.	1.9	3
36	Laser deposition of wear-resistant titanium oxynitride/titanium composite coatings on Ti-6Al-4V alloy. Applied Surface Science, 2020, 531, 147212.	3.1	34

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37	Eco-Friendly Water-Based Nanolubricants for Industrial-Scale Hot Steel Rolling. Lubricants, 2020, 8, 96.	1.2	18
38	Microstructures and bonding strength of synthetic diamond brazed by near-eutectic Agâ€“Cuâ€“inâ€“Ti filler alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139711.	2.6	27
39	Interfacial adhesion of ZnO nanowires on a Si substrate in air. Nanoscale, 2020, 12, 8237-8247.	2.8	14
40	Deformation and removal of semiconductor and laser single crystals at extremely small scales. International Journal of Extreme Manufacturing, 2020, 2, 012006.	6.3	26
41	Critique of materialsâ€based models of ductile machining in brittle solids. Journal of the American Ceramic Society, 2020, 103, 6096-6100.	1.9	59
42	Facile synthesis and influences of Fe/Ni ratio on the microwave absorption performance of ultra-small FeNi-C core-shell nanoparticles. Materials Research Bulletin, 2020, 126, 110837.	2.7	34
43	Novel water-based nanolubricant with superior tribological performance in hot steel rolling. International Journal of Extreme Manufacturing, 2020, 2, 025002.	6.3	24
44	Detection of powder bed defects in selective laser sintering using convolutional neural network. International Journal of Advanced Manufacturing Technology, 2020, 107, 2485-2496.	1.5	25
45	Deformation and fracture behaviours of a YAG single crystal characterized using nanoindentation method. Materials Characterization, 2020, 164, 110302.	1.9	14
46	Reactive Infiltration and Microstructural Characteristics of Sn-V Active Solder Alloys on Porous Graphite. Materials, 2020, 13, 1532.	1.3	5
47	Oxidation Behaviour of Steel During hot Rolling by Using TiO2-Containing Water-Based Nanolubricant. Oxidation of Metals, 2019, 92, 315-335.	1.0	9
48	Low-temperature wetting mechanisms of polycrystalline chemical vapour deposition (CVD) diamond by Sn-Ti solder alloys. Materials and Design, 2019, 182, 108039.	3.3	20
49	Low-temperature wetting of sapphire using Snâ€“Ti active solder alloys. Ceramics International, 2019, 45, 22175-22182.	2.3	25
50	Large-scale synthesis and outstanding microwave absorption properties of carbon nanotubes coated by extremely small FeCo-C core-shell nanoparticles. Carbon, 2019, 153, 52-61.	5.4	104
51	Youngâ€™s modulus of Sb2O3 micro- and nanowires determined accurately by a nanomanipulation-assisted thermal resonance method. AIP Advances, 2019, 9, .	0.6	4
52	Reactive wetting of binary Sn Cr alloy on polycrystalline chemical vapour deposited diamond at relatively low temperatures. Diamond and Related Materials, 2019, 92, 92-99.	1.8	14
53	Yttria stabilized zirconia (YSZ) thin wall structures fabricated using laser engineered net shaping (LENS). International Journal of Advanced Manufacturing Technology, 2019, 105, 4491-4498.	1.5	25
54	High-Speed Grinding of Advanced Ceramics and Combination Materials. Precision Manufacturing, 2019, , 1-39.	0.1	0

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55	Deformation mechanism and force modelling of the grinding of YAG single crystals. International Journal of Machine Tools and Manufacture, 2019, 143, 23-37.	6.2	207
56	Effect of water-based nanolubricant containing nano-TiO2 on friction and wear behaviour of chrome steel at ambient and elevated temperatures. Wear, 2019, 426-427, 792-804.	1.5	32
57	The virtually added mass effect of air on a pre-stressed micro-diaphragm sensor. Vacuum, 2019, 166, 57-63.	1.6	4
58	Deformation behavior of porous PHBV scaffold in compression: A finite element analysis study. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 96, 1-8.	1.5	14
59	Akermanite reinforced PHBV scaffolds manufactured using selective laser sintering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 2596-2610.	1.6	18
60	Nanostructured Al2O3-YAG-ZrO2 ternary eutectic components prepared by laser engineered net shaping. Acta Materialia, 2019, 170, 24-37.	3.8	82
61	Effect of Ovariectomy on Tissue-Level Changes in Rat Maxilla. International Journal of Oral and Maxillofacial Implants, 2019, 34, 865-872.	0.6	0
62	Synergistic tribological performance of a water based lubricant using graphene oxide and alumina hybrid nanoparticles as additives. Tribology International, 2019, 135, 170-180.	3.0	61
63	Synthesis of Five-fold-twinned silver microwhiskers by physical vapor deposition. International Journal of Modern Physics B, 2019, 33, 1950371.	1.0	3
64	Performance evaluation of graphene oxide nanosheet water coolants in the grinding of semiconductor substrates. Precision Engineering, 2019, 60, 291-298.	1.8	14
65	Investigating the Effects of Electron Beam Irradiation on Nanoscale Adhesion. , 2019, , .		3
66	Temperature dependent Youngâ€™s modulus of ZnO nanowires. Nanotechnology, 2019, 30, 065705.	1.3	16
67	Microscale interfacial adhesion assessment in a multilayer by a miniaturised four-point bending test. Mechanics of Materials, 2019, 129, 341-351.	1.7	6
68	In vitro degradation of a unique porous PHBV scaffold manufactured using selective laser sintering. Journal of Biomedical Materials Research - Part A, 2019, 107, 154-162.	2.1	28
69	A laterally sensitive colloidal probe for accurately measuring nanoscale adhesion of textured surfaces. Nano Research, 2019, 12, 389-396.	5.8	15
70	Deformation patterns and fracture stress of beta-phase gallium oxide single crystal obtained using compression of micro-pillars. Journal of Materials Science, 2019, 54, 1958-1966.	1.7	14
71	Environmentâ€Dependent Adhesion Energy of Mica Nanolayers Determined by a Nanomanipulationâ€Based Bridging Method. Advanced Materials Interfaces, 2019, 6, 1801552.	1.9	6
72	Generalisation of the oxide reinforcement model for the high oxidation resistance of some Mg alloys micro-alloyed with Be. Corrosion Science, 2019, 147, 357-371.	3.0	30

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73	The kinetic frictional shear stress of ZnO nanowires on graphite and mica substrates. Applied Surface Science, 2019, 465, 584-590.	3.1	15
74	Nanogrinding induced surface and deformation mechanism of single crystal Î²-Ga 2 O 3. Materials Science in Semiconductor Processing, 2018, 79, 165-170.	1.9	45
75	Tribological Characteristics of Aqueous Graphene Oxide, Graphitic Carbon Nitride, and Their Mixed Suspensions. Tribology Letters, 2018, 66, 1.	1.2	32
76	Characterizing the surface forces between two individual nanowires using optical microscopy based nanomanipulation. Nanotechnology, 2018, 29, 225705.	1.3	3
77	Selective laser melting of alumina: A single track study. Ceramics International, 2018, 44, 9484-9493.	2.3	64
78	Interfacial microstructure and mechanical properties of synthetic diamond brazed by Ni-Cr-P filler alloy. International Journal of Refractory Metals and Hard Materials, 2018, 74, 52-60.	1.7	48
79	Enhanced adhesion of ZnO nanowires during in situ scanning electron microscope peeling. Nanoscale, 2018, 10, 3410-3420.	2.8	25
80	Improved oxidation resistance of Mg-9Al-1Zn alloy microalloyed with 60â€¯wtâ€¯ppm Be attributed to the formation of a more protective (Mg,Be)O surface oxide. Corrosion Science, 2018, 132, 272-283.	3.0	31
81	Facile synthesis and excellent microwave absorption properties of FeCo-C coreâ€“shell nanoparticles. Nanotechnology, 2018, 29, 085604.	1.3	57
82	Effects of Surface Roughness on the Kinetic Friction of SiC Nanowires on SiN Substrates. Tribology Letters, 2018, 66, 1.	1.2	12
83	Friction and wear characteristics of TiO 2 nano-additive water-based lubricant on ferritic stainless steel. Tribology International, 2018, 117, 24-38.	3.0	126
84	Synthesis, microstructure, and mechanical behaviour of a unique porous PHBV scaffold manufactured using selective laser sintering. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 84, 151-160.	1.5	44
85	Performance Evaluation and Lubrication Mechanism of Water-Based Nanolubricants Containing Nano-TiO2 in Hot Steel Rolling. Lubricants, 2018, 6, 57.	1.2	26
86	An experimental study of temperature at the tip of point-attack pick during rock cutting process. International Journal of Rock Mechanics and Minings Sciences, 2018, 107, 39-47.	2.6	22
87	High speed grinding characteristics and machinability of WC-10Co-4Cr coatings deposited via high velocity oxygen fuel spraying. Journal of Mechanical Science and Technology, 2018, 32, 3283-3290.	0.7	2
88	Laser deposition of compositionally graded titanium oxide on Ti6Al4V alloy. Ceramics International, 2018, 44, 20851-20861.	2.3	20
89	Enhanced electromagnetic wave absorption of Niâ€“C core-shell nanoparticles by HCP-Ni phase. Materials Research Express, 2018, 5, 095013.	0.8	18
90	Inducing stable interfacial delamination in a multilayer system by four-point bending of microbridges. Surface and Coatings Technology, 2017, 320, 478-482.	2.2	13

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91	A study of the tribological behaviour of TiO2 nano-additive water-based lubricants. Tribology International, 2017, 109, 398-408.	3.0	180
92	Tribological Performance and Lubrication Mechanism of Alumina Nanoparticle Water-Based Suspensions in Ball-on-Three-Plate Testing. Tribology Letters, 2017, 65, 1.	1.2	56
93	Surface integrity and removal mechanism of silicon wafers in chemo-mechanical grinding using a newly developed soft abrasive grinding wheel. Materials Science in Semiconductor Processing, 2017, 63, 97-106.	1.9	30
94	Recent advances in micro- and nano-machining technologies. Frontiers of Mechanical Engineering, 2017, 12, 18-32.	2.5	75
95	Analysis of TiO 2 nano-additive water-based lubricants in hot rolling of microalloyed steel. Journal of Manufacturing Processes, 2017, 27, 26-36.	2.8	63
96	Deformation, failure and removal mechanisms of thin film structures in abrasive machining. Advances in Manufacturing, 2017, 5, 1-19.	3.2	22
97	Formation of TiC via interface reaction between diamond grits and Sn-Ti alloys at relatively low temperatures. International Journal of Refractory Metals and Hard Materials, 2017, 66, 252-257.	1.7	16
98	A comparative study on magnetorheological planarization using modified magnetic yokes and brick magnet. International Journal of Advanced Manufacturing Technology, 2017, 91, 2831-2841.	1.5	7
99	A comparative study of conventional and high speed grinding characteristics of a thin film multilayer structure. Precision Engineering, 2017, 50, 222-234.	1.8	8
100	The effect of surface texture on the kinetic friction of a nanowire on a substrate. Scientific Reports, 2017, 7, 44907.	1.6	11
101	Preparation of nanoporous graphene oxide by nanocrystal-masked etching: toward a nacre-mimetic metalâ€“organic framework molecular sieving membrane. Journal of Materials Chemistry A, 2017, 5, 16255-16262.	5.2	42
102	The Mechanical Properties of Nanowires. Advanced Science, 2017, 4, 1600332.	5.6	152
103	The pH-dependent structural and tribological behaviour of aqueous graphene oxide suspensions. Tribology International, 2017, 116, 460-469.	3.0	49
104	Effects of surface defects on the mechanical properties of ZnO nanowires. Scientific Reports, 2017, 7, 9547.	1.6	33
105	The deformation pattern of single crystal Î²-Ga 2 O 3 under nanoindentation. Materials Science in Semiconductor Processing, 2017, 71, 321-325.	1.9	29
106	Gram-scale synthesis, thermal stability, magnetic properties, and microwave absorption application of extremely small Coâ€“C coreâ€“shell nanoparticles. Materials Research Express, 2017, 4, 075044.	0.8	17
107	Allometric scaling of skin thickness, elasticity, viscoelasticity to mass for micro-medical device translation: from mice, rats, rabbits, pigs to humans. Scientific Reports, 2017, 7, 15885.	1.6	174
108	Parametric study of rock cutting with SMARTâˆ—CUT picks. Tunnelling and Underground Space Technology, 2017, 61, 134-144.	3.0	30

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109	The kinetic friction of ZnO nanowires on amorphous SiO2 and SiN substrates. Applied Surface Science, 2016, 389, 797-801.	3.1	11
110	A study of the deformation and failure mechanisms of protective intermetallic coatings on AZ91 Mg alloys using microcantilever bending. Materials Characterization, 2016, 120, 337-344.	1.9	12
111	Unique structure and surface-related elastic modulus of alumina nanobelts. Nanotechnology, 2016, 27, 475701.	1.3	11
112	Characterising the material properties at the interface between skin and a skin vaccination microprojection device. Acta Biomaterialia, 2016, 36, 186-194.	4.1	18
113	Characterising the nanoscale kinetic friction using force-equilibrium and energy-conservation models with optical manipulation. Nanotechnology, 2016, 27, 065709.	1.3	9
114	Formulations for microprojection/microneedle vaccine delivery: Structure, strength and release profiles. Journal of Controlled Release, 2016, 225, 40-52.	4.8	74
115	Characteristics and removal mechanism in laser cutting of cBNâ€“WCâ€“10Co composites. Journal of Materials Processing Technology, 2016, 230, 42-49.	3.1	39
116	Hollow Carbon Nanospheres with Extremely Small Size as Anode Material in Lithium-Ion Batteries with Outstanding Cycling Stability. Journal of Physical Chemistry C, 2016, 120, 3139-3144.	1.5	39
117	Temperature-dependent chemical state of the nickel catalyst for the growth of carbon nanofibers. Carbon, 2016, 96, 904-910.	5.4	35
118	Critical properties of Cu 6 Sn 5 in electronic devices: Recent progress and a review. Current Opinion in Solid State and Materials Science, 2016, 20, 55-76.	5.6	87
119	Mechanical load-induced interfacial failure of a thin film multilayer in nanoscratching and diamond lapping. Journal of Materials Processing Technology, 2016, 229, 528-540.	3.1	8
120	Graphene/titanium carbide composites prepared by solâ€“gel infiltration and spark plasma sintering. Ceramics International, 2016, 42, 122-131.	2.3	42
121	Surface integrity and removal mechanism of chemical mechanical grinding of silicon wafers using a newly developed wheel. International Journal of Advanced Manufacturing Technology, 2016, 83, 1231-1239.	1.5	8
122	Polishing characteristics and mechanism in magnetorheological planarization using a permanent magnetic yoke with translational movement. Precision Engineering, 2016, 43, 93-104.	1.8	24
123	Kinetic and static friction between alumina nanowires and a Si substrate characterized using a bending manipulation method. Journal of Materials Research, 2015, 30, 1852-1860.	1.2	15
124	Fracture strength characterization of protective intermetallic coatings on AZ91E Mg alloys using FIB-machined microcantilever bending technique. Journal of Materials Research, 2015, 30, 1678-1685.	1.2	12
125	Investigation of the dynamic bending properties of MoS2 thin films by interference colours. Scientific Reports, 2015, 5, 18441.	1.6	10
126	The kinetic friction between a nanowire and a flat substrate measured using nanomanipulation with optical microscopy. Applied Physics Letters, 2015, 107, 103102.	1.5	24

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127	Fracture Strain of SiC Nanowires and Direct Evidence of Electronâ€Beam Induced Amorphisation in the Strained Nanowires. Small, 2015, 11, 1672-1676.	5.2	48
128	A new method for measuring the flatness of large and thin silicon substrates using a liquid immersion technique. Measurement Science and Technology, 2015, 26, 115008.	1.4	6
129	Synthesis and magnetic properties of Fe3Câ€“C coreâ€“shell nanoparticles. Nanotechnology, 2015, 26, 085601.	1.3	28
130	Interfacial energy release rates of SiN/GaAs film/substrate systems determined using a cyclic loading dual-indentation method. Thin Solid Films, 2015, 589, 822-830.	0.8	13
131	A simple criterion for determining the static friction force between nanowires and flat substrates using the most-bent-state method. Nanotechnology, 2015, 26, 165702.	1.3	16
132	Strain rate dependence in the nanoindentation-induced deformation of Mg-Al intermetallic compounds produced by packed powder diffusion coating. Metals and Materials International, 2015, 21, 793-798.	1.8	3
133	Magnetorheological polishing using a permanent magnetic yoke with straight air gap for ultra-smooth surface planarization. Precision Engineering, 2015, 40, 309-317.	1.8	41
134	Fabrication of small aspheric moulds using single point inclined axis grinding. Precision Engineering, 2015, 39, 107-115.	1.8	31
135	Effect of substrate temperature on the interface bond between support and substrate during selective laser melting of Alâ€“Niâ€“Yâ€“Coâ€“La metallic glass. Materials & Design, 2015, 65, 1-6.	5.1	74
136	Ni₃C-assisted growth of carbon nanofibres 300 Â°C by thermal CVD. Nanotechnology, 2014, 25, 325602.	1.3	16
137	Molecular Dynamics Simulation of the Deformation of Single Crystal Gallium Arsenide. Applied Mechanics and Materials, 2014, 553, 60-65.	0.2	2
138	Nanomechanical properties of Mgâ€“Al intermetallic compounds produced by packed powder diffusion coating (PPDC) on the surface of AZ91E. Journal of Alloys and Compounds, 2014, 587, 527-532.	2.8	27
139	Deformation and Removal Characteristics of Multilayered Thin Film Structures in Nanoscratching and Diamond Lapping. Advanced Materials Research, 2014, 1017, 61-65.	0.3	0
140	A Preliminary Study of Surface Integrity and Wheel Wear in the Grinding of Multilayered Thin Film Structures. Advanced Materials Research, 2014, 1017, 88-91.	0.3	0
141	The role of a low-energyâ€“density re-scan in fabricating crack-free Al85Ni5Y6Co2Fe2 bulk metallic glass composites via selective laser melting. Materials & Design, 2014, 63, 407-411.	5.1	113
142	Controlled synthesis and optical properties of Cu/C core/shell nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	17
143	Determination of the energy release rate in the interfacial delamination of silicon nitride film on gallium arsenide substrate via nanoindentation. Journal of Materials Research, 2014, 29, 801-810.	1.2	16
144	Selective laser melting of an Al86Ni6Y4.5Co2La1.5 metallic glass: Processing, microstructure evolution and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 606, 370-379.	2.6	134

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145	Microstructure characterization and nanomechanics of cold-sprayed pure Al and Al-Al2O3 composite coatings. Surface and Coatings Technology, 2013, 232, 216-223.	2.2	55
146	A focused review on nanoscratching-induced deformation of monocrystalline silicon. International Journal of Surface Science and Engineering, 2013, 7, 51.	0.4	11
147	Investigating the mechanical properties, creep and crack pattern of Cu6Sn5 and (Cu,Ni)6Sn5 on diverse crystal planes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 566, 126-133.	2.6	35
148	Determination of the minimum Ni concentration to prevent the Î· to Î·4+1 polymorphic transformation of stoichiometric Cu6Sn5. Scripta Materialia, 2013, 68, 595-598.	2.6	26
149	Vapor-phase synthesis, growth mechanism and thickness-independent elastic modulus of single-crystal tungsten nanobelts. Nanotechnology, 2013, 24, 505705.	1.3	19
150	Creep and Mechanical Properties of Cu6Sn5 and (Cu,Ni)6Sn5 at Elevated Temperatures. Journal of Electronic Materials, 2013, 42, 304-311.	1.0	28
151	An improved loop test for experimentally approaching the intrinsic strength of alumina nanoscale whiskers. Nanotechnology, 2013, 24, 285703.	1.3	32
152	Elastic modulus and viscoelastic properties of full thickness skin characterised at micro scales. Biomaterials, 2013, 34, 2087-2097.	5.7	75
153	Mechanical properties and material removal characteristics of soft-brittle HgCdTe single crystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 480-485.	2.6	14
154	Surface and subsurface deformation characteristics of cemented tungsten carbide under nanoscratching. International Journal of Surface Science and Engineering, 2013, 7, 122.	0.4	1
155	A resonant method for determining the residual stress and elastic modulus of a thin film. Applied Physics Letters, 2013, 103, .	1.5	32
156	A Study of Mechanical Properties and Material Removal of Polycrystalline Tungsten via Nanoindentation and Nanoscratch. Advanced Materials Research, 2013, 797, 706-710.	0.3	0
157	Characterization of the interfacial strength of SiN_x/GaAs film/substrate systems using energy balance in nanoindentation. Journal of Materials Research, 2013, 28, 3137-3145.	1.2	11
158	Machining Characteristics of Multilayered Thin Film Solar Panels in Diamond Wire Sawing and Grinding. Advanced Materials Research, 2013, 797, 85-89.	0.3	0
159	Indentation-induced delamination of plasma-enhanced chemical vapor deposition silicon nitride film on gallium arsenide substrate. Journal of Materials Research, 2013, 28, 1047-1055.	1.2	21
160	An experimental study of machining characteristics and tool wear in the diamond wire sawing of granite. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 943-953.	1.5	24
161	Nanoscratch characteristics and interfacial adhesion energy of SiN/GaAs film/substrate bilayer systems. International Journal of Surface Science and Engineering, 2013, 7, 382.	0.4	1
162	Mold Pattern Fabrication by Nanoscratching. International Journal of Automation Technology, 2013, 7, 686-693.	0.5	4

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163	A study on the diamond grinding of ultra-thin silicon wafers. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2012, 226, 66-75.	1.5	42
164	Characterisation of Interfacial Adhesion of Thin Film/Substrate Systems Using Indentation-Induced Delamination: A Focused Review. Key Engineering Materials, 2012, 533, 201-222.	0.4	9
165	A Grinding Protocol for the Fabrication of Micro/Meso Aspheric Moulds for Optic Applications. Advanced Materials Research, 2012, 565, 111-116.	0.3	0
166	Deformation and removal characteristics of LiTaO<SUB align="right">3 single crystals in nanoindentation and nanoscratch. International Journal of Abrasive Technology, 2012, 5, 258.	0.2	1
167	A new phase in stoichiometric Cu6Sn5. Acta Materialia, 2012, 60, 6581-6591.	3.8	50
168	Deconvolution of mechanical properties of thin films from nanoindentation measurement via finite element optimization. Thin Solid Films, 2012, 526, 183-190.	0.8	14
169	Hardness of silicon nitride thin films characterised by nanoindentation and nanoscratch deconvolution methods. Materials Science and Technology, 2012, 28, 1172-1176.	0.8	3
170	Anisotropic mechanical properties of Cu6Sn5 and (Cu,Ni)6Sn5. Materials Letters, 2012, 86, 46-49.	1.3	67
171	Non-isothermal crystallization kinetics and mechanical properties of Al 86 Ni 6 Y 4.5 Co 2 La 1.5 metallic glass powder. Journal of Alloys and Compounds, 2012, 530, 127-131.	2.8	21
172	Growth orientations and mechanical properties of Cu6Sn5 and (Cu,Ni)6Sn5 on poly-crystalline Cu. Journal of Alloys and Compounds, 2012, 536, 38-46.	2.8	56
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