

Te-Hua Fang

List of Publications by Year in descending order

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433
papers

7,925
citations

57631

44
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118652

62
g-index

434
all docs

434
docs citations

434
times ranked

6445
citing authors

#	ARTICLE	IF	CITATIONS
1	The crystallization and physical properties of Al-doped ZnO nanoparticles. Applied Surface Science, 2008, 254, 5791-5795.	3.1	205
2	Three-dimensional molecular dynamics analysis of processing using a pin tool on the atomic scale. Nanotechnology, 2000, 11, 148-153.	1.3	166
3	Machining characterization of the nano-lithography process using atomic force microscopy. Nanotechnology, 2000, 11, 181-187.	1.3	115
4	Effects of AFM-based nanomachining process on aluminum surface. Journal of Physics and Chemistry of Solids, 2003, 64, 913-918.	1.9	115
5	Molecular dynamics analysis of temperature effects on nanoindentation measurement. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 357, 7-12.	2.6	112
6	Molecular dynamics simulation of nano-lithography process using atomic force microscopy. Surface Science, 2002, 501, 138-147.	0.8	109
7	Molecular dynamics simulations on nanoindentation mechanisms of multilayered films. Computational Materials Science, 2008, 43, 785-790.	1.4	94
8	Nanomechanical properties of copper thin films on different substrates using the nanoindentation technique. Microelectronic Engineering, 2003, 65, 231-238.	1.1	93
9	Synthesis, formation and characterization of ZnTiO ₃ ceramics. Ceramics International, 2004, 30, 2183-2189.	2.3	91
10	A Large Area Flexible Array Sensors Using Screen Printing Technology. Journal of Display Technology, 2009, 5, 178-183.	1.3	88
11	Nanoindentation characterization of ZnO thin films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 452-453, 715-720.	2.6	81
12	Buckling characterization of vertical ZnO nanowires using nanoindentation. Applied Physics Letters, 2007, 90, 033109.	1.5	80
13	Influence of temperature on tensile and fatigue behavior of nanoscale copper using molecular dynamics simulation. Journal of Physics and Chemistry of Solids, 2003, 64, 1279-1283.	1.9	77
14	Nanomechanical properties of TiC, TiN and TiCN thin films using scanning probe microscopy and nanoindentation. Applied Surface Science, 2004, 228, 365-372.	3.1	77
15	Effects of pressure, temperature, and geometric structure of pillared graphene on hydrogen storage capacity. International Journal of Hydrogen Energy, 2012, 37, 14211-14216.	3.8	72
16	Replication of butterfly wing microstructures using molding lithography. Current Applied Physics, 2010, 10, 625-630.	1.1	70
17	Structure and luminescent properties of LaNbO ₄ synthesized by sol-gel process. Journal of Luminescence, 2007, 126, 866-870.	1.5	69
18	Atomistic simulations of hard and soft films under nanoindentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 452-453, 135-141.	2.6	68

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19	Nanoindentation and nanomachining characteristics of gold and platinum thin films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 430, 332-340.	2.6	67
20	A numerical study of factors affecting the characterization of nanoindentation on silicon. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 447, 244-253.	2.6	66
21	Photoluminescent characterization of KNbO ₃ :Eu ³⁺ . <i>Materials Chemistry and Physics</i> , 2006, 100, 418-422.	2.0	64
22	Growth of nanoscale InGaN self-assembled quantum dots. <i>Journal of Crystal Growth</i> , 2003, 249, 144-148.	0.7	60
23	Nanoindentation and nanoscratch characteristics of Si and GaAs. <i>Microelectronic Engineering</i> , 2005, 77, 389-398.	1.1	60
24	Physical characteristics of polyimide films for flexible sensors. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 693-701.	1.1	57
25	Preparation and characteristics of hybrid ZnO-polymer solar cells. <i>Journal of Materials Science</i> , 2010, 45, 3266-3269.	1.7	57
26	Response and characteristics of TiO ₂ /perovskite heterojunctions for CO gas sensors. <i>Journal of Alloys and Compounds</i> , 2019, 794, 576-584.	2.8	56
27	A molecular dynamics study of the nucleation, thermal stability and nanomechanics of carbon nanocones. <i>Nanotechnology</i> , 2007, 18, 105702.	1.3	55
28	ZnO ultraviolet photodiodes with Pd contact electrodes. <i>Acta Materialia</i> , 2007, 55, 329-333.	3.8	55
29	High dielectric permittivity of Li and Ta codoped NiO ceramics. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 863-868.	1.3	54
30	Nanoscale mechanical characteristics of vertical ZnO nanowires grown on ZnO:Ga/glass templates. <i>Nanotechnology</i> , 2007, 18, 225603.	1.3	54
31	Flexible Electronics Sensors for Tactile Multi-Touching. <i>Sensors</i> , 2009, 9, 1188-1203.	2.1	54
32	High-Sensitive Ultraviolet Photodetectors Based on ZnO Nanorods/CdS Heterostructures. <i>Nanoscale Research Letters</i> , 2017, 12, 31.	3.1	54
33	Effects of temperature and vacancy defects on tensile deformation of single-walled carbon nanotubes. <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 1849-1856.	1.9	53
34	Influences of grain size and temperature on tribological characteristics of CuAlNi alloys under nanoindentation and nanoscratch. <i>International Journal of Mechanical Sciences</i> , 2020, 185, 105865.	3.6	53
35	Studies on nanoimprint process parameters of copper by molecular dynamics analysis. <i>Computational Materials Science</i> , 2005, 34, 314-322.	1.4	52
36	Residual stress and elastic recovery of imprinted Cu-Zr metallic glass films using molecular dynamic simulation. <i>Computational Materials Science</i> , 2019, 170, 109162.	1.4	51

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37	Rapid detection of low concentrations of H ₂ S using CuO-doped ZnO nanofibers. <i>Journal of Alloys and Compounds</i> , 2021, 852, 157014.	2.8	51
38	Analysis of physical properties of III-nitride thin films by nanoindentation. <i>Journal of Electronic Materials</i> , 2003, 32, 496-500.	1.0	50
39	Nanoindentation characteristics on polycarbonate polymer film. <i>Microelectronics Journal</i> , 2004, 35, 595-599.	1.1	50
40	Highly response CO ₂ gas sensor based on Au-La ₂ O ₃ doped SnO ₂ nanofibers. <i>Materials Letters</i> , 2020, 261, 127144.	1.3	48
41	ZnO-based MIS photodetectors. <i>Sensors and Actuators A: Physical</i> , 2007, 135, 529-533.	2.0	47
42	Grain size effect on indentation of nanocrystalline copper. <i>Applied Surface Science</i> , 2015, 353, 494-498.	3.1	47
43	Mechanism and characteristics of Au-functionalized SnO ₂ /In ₂ O ₃ nanofibers for highly sensitive CO detection. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153475.	2.8	46
44	Nanomeasurement and fractal analysis of PZT ferroelectric thin films by atomic force microscopy. <i>Microelectronic Engineering</i> , 2003, 65, 406-415.	1.1	45
45	Effect of freon flow rate on tin oxide thin films deposited by chemical vapor deposition. <i>Applied Surface Science</i> , 2003, 220, 175-180.	3.1	45
46	The structure and properties of zinc titanate doped with strontium. <i>Journal of Alloys and Compounds</i> , 2003, 354, 303-309.	2.8	44
47	A molecular dynamics simulation of the mechanical characteristics of a C ₆₀ -filled carbon nanotube under nanoindentation using various carbon nanotube tips. <i>Carbon</i> , 2011, 49, 2053-2061.	5.4	44
48	Characteristics of Au-doped SnO ₂ –ZnO heteronanostructures for gas sensing applications. <i>Vacuum</i> , 2019, 166, 155-161.	1.6	44
49	Molecular dynamics investigation of the mechanical properties of gallium nitride nanotubes under tension and fatigue. <i>Nanotechnology</i> , 2004, 15, 1737-1744.	1.3	43
50	Nanomechanical properties of array TiO ₂ nanotubes. <i>Microporous and Mesoporous Materials</i> , 2011, 145, 87-92.	2.2	43
51	Nanomechanical characterization of polymer using atomic force microscopy and nanoindentation. <i>Microelectronics Journal</i> , 2005, 36, 55-59.	1.1	42
52	Deformation Mechanism and Punch Taper Effects on Nanoimprint Process by Molecular Dynamics. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 7665-7669.	0.8	41
53	Molecular dynamics simulation of abrasive characteristics and interfaces in chemical mechanical polishing. <i>Applied Surface Science</i> , 2020, 509, 144676.	3.1	40
54	Nanotribological characteristics and strain hardening of amorphous Cu ₆₄ Zr ₃₆ / crystalline Cu nanolaminates. <i>Tribology International</i> , 2020, 147, 106275.	3.0	40

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55	Machining mechanism and deformation behavior of high-entropy alloy under elliptical vibration cutting. <i>Intermetallics</i> , 2021, 131, 107079.	1.8	40
56	Electrical and mechanical properties of graphene oxide on flexible substrate. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 1783-1793.	1.9	39
57	Investigations of the mechanical properties of nanoimprinted amorphous Ni–Zr alloys utilizing the molecular dynamics simulation. <i>Journal of Alloys and Compounds</i> , 2016, 659, 224-231.	2.8	39
58	Material removal and interactions between an abrasive and a SiC substrate: A molecular dynamics simulation study. <i>Ceramics International</i> , 2020, 46, 5623-5633.	2.3	39
59	Inverse determination of the cutting force on nanoscale processing using atomic force microscopy. <i>Nanotechnology</i> , 2004, 15, 427-430.	1.3	38
60	Dynamic characteristics of nanoindentation using atomistic simulation. <i>Acta Materialia</i> , 2009, 57, 3341-3348.	3.8	38
61	Preparation and characterization of Mg-doped ZnO nanorods. <i>Journal of Alloys and Compounds</i> , 2010, 492, 536-542.	2.8	37
62	Pile-up and heat effect on the mechanical response of SiGe on Si(100) substrate during nanoscratching and nanoindentation using molecular dynamics. <i>Computational Materials Science</i> , 2020, 174, 109465.	1.4	36
63	Nanomechanical properties of lead zirconate titanate thin films by nanoindentation. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 5253-5259.	0.7	35
64	Photoluminescence characteristics of ZnO doped with Eu ³⁺ powders. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 1015-1018.	1.9	35
65	Atomic-level stress calculation and surface roughness of film deposition process using molecular dynamics simulation. <i>Computational Materials Science</i> , 2010, 48, 520-528.	1.4	35
66	Mechanical properties of free-standing graphene oxide. <i>Diamond and Related Materials</i> , 2013, 38, 73-78.	1.8	35
67	Effects of grain size and temperature on mechanical response of nanocrystalline copper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 671, 1-6.	2.6	35
68	Effects of grain and twin boundary on friction and contact characteristics of CuZrAl nanocrystallines. <i>Applied Surface Science</i> , 2020, 524, 146458.	3.1	35
69	Microstructure and composition dependence of mechanical characteristics of nanoimprinted AlCoCrFeNi high-entropy alloys. <i>Scientific Reports</i> , 2021, 11, 13680.	1.6	35
70	Effects of temperature, size of water droplets, and surface roughness on nanowetting properties investigated using molecular dynamics simulation. <i>Computational Materials Science</i> , 2012, 53, 25-30.	1.4	34
71	Abrasive mechanisms and interfacial mechanics of amorphous silicon carbide thin films in chemical-mechanical planarization. <i>Journal of Alloys and Compounds</i> , 2020, 845, 156100.	2.8	34
72	Material removal and wear mechanism in abrasive polishing of SiO ₂ /SiC using molecular dynamics. <i>Ceramics International</i> , 2020, 46, 21578-21595.	2.3	33

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73	Critical size, recovery, and mechanical property of nanoimprinted Ni-Al alloys investigation using molecular dynamics simulation. <i>Computational Materials Science</i> , 2012, 53, 321-328.	1.4	32
74	Buckling instabilities in GaN nanotubes under uniaxial compression. <i>Nanotechnology</i> , 2005, 16, 2203-2208.	1.3	31
75	Nanomechanical properties of nanocrystalline Ni-Fe mold insert. <i>Journal of Alloys and Compounds</i> , 2004, 372, 224-230.	2.8	30
76	Effects of temperature, strain rate, and vacancies on tensile and fatigue behaviors of silicon-based nanotubes. <i>Physical Review B</i> , 2005, 71, .	1.1	30
77	Growth and characterization of NaNbO ₃ synthesized using reaction-sintering method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 136, 129-133.	1.7	30
78	The fabrication and characteristics of hydroxyapatite film grown on titanium alloy Ti-6Al-4V by anodic treatment. <i>Journal of Materials Research and Technology</i> , 2020, 9, 4817-4825.	2.6	30
79	Nanomechanical characterizations of InGaN thin films. <i>Applied Surface Science</i> , 2006, 252, 3033-3042.	3.1	29
80	Effect of thermal annealing on nanoimprinted Cu-Ni alloys using molecular dynamics simulation. <i>Applied Surface Science</i> , 2009, 255, 6043-6047.	3.1	29
81	Red-Shift Effect and Sensitive Responsivity of MoS ₂ /ZnO Flexible Photodetectors. <i>Nanoscale Research Letters</i> , 2015, 10, 443.	3.1	29
82	Nanolithography and nanoindentation of tantalum-oxide nanowires and nanodots using scanning probe microscopy. <i>Physica B: Condensed Matter</i> , 2004, 352, 190-199.	1.3	28
83	Luminescent and structural properties of MgNb ₂ O ₆ nanocrystals. <i>Current Opinion in Solid State and Materials Science</i> , 2008, 12, 51-54.	5.6	28
84	Molecular dynamics simulations of hydrogen storage capacity of few-layer graphene. <i>Journal of Molecular Modeling</i> , 2013, 19, 3813-3819.	0.8	28
85	Nanomechanical characteristics of SnO ₂ :F thin films deposited by chemical vapor deposition. <i>Applied Surface Science</i> , 2005, 252, 1863-1869.	3.1	27
86	Self-formation of GaN hollow nanocolumns by inductively coupled plasma etching. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 1607-1610.	1.1	27
87	Physical Behavior of Nanoporous Anodic Alumina Using Nanoindentation and Microhardness Tests. <i>Nanoscale Research Letters</i> , 2007, 2, .	3.1	27
88	Surface and physical characteristics of ZnO:Al nanostructured films. <i>Journal of Applied Physics</i> , 2009, 105, 113512.	1.1	27
89	Optical and physical characteristics of In-doped ZnO nanorods. <i>Current Applied Physics</i> , 2010, 10, 1076-1086.	1.1	27
90	Nanometric mechanical cutting of metallic glass investigated using atomistic simulation. <i>Applied Surface Science</i> , 2017, 396, 319-326.	3.1	27

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91	Characteristics and gas sensor applications of ZnO-Perovskite heterostructure. <i>Ceramics International</i> , 2022, 48, 12585-12591.	2.3	27
92	A novel method to realize InGaN self-assembled quantum dots by metalorganic chemical vapor deposition. <i>Materials Letters</i> , 2003, 57, 4218-4221.	1.3	26
93	Molecular dynamics analysis of nanoimprinted Cu-Ni alloys. <i>Applied Surface Science</i> , 2007, 253, 6963-6968.	3.1	26
94	Effect of indium dopant on surface and mechanical characteristics of ZnO-In nanostructured films. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 245303.	1.3	26
95	Effect of growth temperature on photoluminescence and piezoelectric characteristics of ZnO nanowires. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 158, 75-78.	1.7	26
96	Size effect of nanodiamonds on P3HT:PCBM heterojunction solar cells. <i>Electrochemistry Communications</i> , 2012, 18, 4-7.	2.3	26
97	Mechanical characteristics of graphene nanoribbons encapsulated in single-walled carbon nanotubes using molecular dynamics simulations. <i>Applied Surface Science</i> , 2015, 356, 221-225.	3.1	26
98	Atomistic simulations of nanowelding of single-crystal and amorphous gold nanowires. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	26
99	Molecular dynamics studies of atomic-scale tribological characteristics for different sliding systems. <i>Tribology Letters</i> , 2005, 18, 315-330.	1.2	25
100	Low-Temperature Preparation of Ba ₅ Nb ₄ O ₁₅ Ceramics Through a Sol-Gel Process. <i>Journal of the American Ceramic Society</i> , 2007, 90, 2287-2290.	1.9	25
101	Synthesis and luminescent properties of ZnNb ₂ O ₆ nanocrystals for solar cell. <i>Materials Letters</i> , 2010, 64, 2563-2565.	1.3	25
102	The coupled effects of size, shape, and location of vacancy clusters on the structural deformation and mechanical strength of defective nanowires. <i>Current Applied Physics</i> , 2011, 11, 878-887.	1.1	25
103	Atomic-scale simulations of material behaviors and tribology properties for FCC and BCC metal films. <i>Materials Letters</i> , 2012, 80, 59-62.	1.3	25
104	Mechanical properties of pillared-graphene nanostructures using molecular dynamics simulations. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 405302.	1.3	25
105	Void growth and coalescence in Cu-Ta metallic glasses using molecular dynamics. <i>Computational Materials Science</i> , 2019, 168, 144-153.	1.4	25
106	InGaN quantum dot photodetectors. <i>Solid-State Electronics</i> , 2003, 47, 1753-1756.	0.8	24
107	Mechanisms of p-GaAs(100) surface by atomic force microscope nano-oxidation. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 2424-2432.	1.3	24
108	Molecular-dynamics studies of bending mechanical properties of empty and C ₆₀ -filled carbon nanotubes under nanoindentation. <i>Journal of Chemical Physics</i> , 2005, 122, 224713.	1.2	24

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109	Effects of void and inclusion sizes on mechanical response and failure mechanism of AlCrCuFeNi ₂ high-entropy alloy. <i>Engineering Fracture Mechanics</i> , 2021, 252, 107848.	2.0	24
110	Dielectric relaxation properties of perovskite-pyrochlore biphase ceramics. <i>Applied Physics Letters</i> , 2005, 87, 142906.	1.5	23
111	Dielectric relaxation property and barrier layer formation in CrNbO ₄ oxides. <i>Journal of Alloys and Compounds</i> , 2006, 421, 240-246.	2.8	23
112	Molecular dynamic simulation and characterization of self-assembled monolayer under sliding friction. <i>Computational Materials Science</i> , 2007, 39, 808-816.	1.4	23
113	Experimental and numerical investigation into buckling instability of carbon nanotube probes under nanoindentation. <i>Applied Physics Letters</i> , 2007, 90, 161913.	1.5	23
114	Nanoscratch behavior of multi-layered films using molecular dynamics. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 90, 753-758.	1.1	23
115	Mechanical characterization of nanoindented graphene via molecular dynamics simulations. <i>Nanoscale Research Letters</i> , 2011, 6, 481.	3.1	23
116	The deposition of Fe or Co clusters on Cu substrate by molecular dynamic simulation. <i>Surface Science</i> , 2011, 605, 46-53.	0.8	23
117	Influences of grain size, alloy composition, and temperature on mechanical characteristics of Si _{100-x} Gex alloys during indentation process. <i>Materials Science in Semiconductor Processing</i> , 2021, 123, 105568.	1.9	23
118	Nanotribology and fractal analysis of ZnO thin films using scanning probe microscopy. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 878-883.	1.3	22
119	Mechanisms of nanooxidation of Si(100) from atomic force microscopy. <i>Microelectronics Journal</i> , 2004, 35, 701-707.	1.1	22
120	Coalescence, melting, and mechanical characteristics of carbon nanotube junctions. <i>Physical Review B</i> , 2006, 74, .	1.1	22
121	Physical Properties of ZnO: Al Nanorods for Piezoelectric Nanogenerator Application. <i>Current Nanoscience</i> , 2010, 6, 505-511.	0.7	22
122	Effects of temperature, loading rate and nanowire length on torsional deformation and mechanical properties of aluminium nanowires investigated using molecular dynamics simulation. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 215303.	1.3	22
123	Nanomachining characteristics of textured polycrystalline NiFeCo alloy using molecular dynamics. <i>Journal of Manufacturing Processes</i> , 2022, 74, 423-440.	2.8	22
124	Nanomechanical characterization of amorphous hydrogenated carbon thin films. <i>Applied Surface Science</i> , 2006, 252, 6243-6248.	3.1	21
125	Preparation and luminescent characteristic of Li ₃ NbO ₄ nanophosphor. <i>Journal of Luminescence</i> , 2010, 130, 1863-1865.	1.5	21
126	Formation Mechanism and Mechanics of Dip-Pen Nanolithography Using Molecular Dynamics. <i>Langmuir</i> , 2010, 26, 3237-3241.	1.6	21

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127	Microthermal machining using scanning thermal microscopy. <i>Applied Surface Science</i> , 2005, 240, 312-317.	3.1	20
128	Effect of annealing on the structural and mechanical properties of Ba _{0.7} Sr _{0.3} TiO ₃ thin films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 426, 157-161.	2.6	20
129	Analysis of the substrate effects of strain-hardening thin films on silicon under nanoindentation. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 86, 335-341.	1.1	20
130	Phase transformation and thermomechanical characteristics of stretched polyvinylidene fluoride. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 480, 477-482.	2.6	20
131	Elasticity and nanomechanical response of <i>Aspergillus niger</i> spores using atomic force microscopy. <i>Micron</i> , 2012, 43, 407-411.	1.1	20
132	Mass Detection in Viscous Fluid Utilizing Vibrating Micro- and Nanomechanical Mass Sensors under Applied Axial Tensile Force. <i>Sensors</i> , 2015, 15, 19351-19368.	2.1	20
133	Nanomilling mechanism on Cu surfaces investigated using atomistic simulation. <i>Molecular Simulation</i> , 2015, 41, 1159-1165.	0.9	20
134	Molecular dynamics studies of atomic-scale friction for roller-on-slab systems with different rolling/sliding conditions. <i>Nanotechnology</i> , 2005, 16, 1941-1949.	1.3	19
135	Effects of strain on the characteristics of InGaN/GaN multiple quantum-dot blue light emitting diodes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 355, 118-121.	0.9	19
136	Contact and frictional behavior of rough surfaces using molecular dynamics combined with fractal theory. <i>Computational Materials Science</i> , 2007, 40, 480-484.	1.4	19
137	Critical conditions of epitaxy, mixing and sputtering growth on Cu(100) surface using molecular dynamics. <i>Computational Materials Science</i> , 2007, 41, 70-77.	1.4	19
138	Optimization of screen-printing parameters of SN9000 ink for pinholes using Taguchi method in chip on film packaging. <i>Robotics and Computer-Integrated Manufacturing</i> , 2011, 27, 531-537.	6.1	19
139	Gas sensitivity and sensing mechanism studies on ZnO/La _{0.8} Sr _{0.2} Co _{0.5} Ni _{0.5} O ₃ heterojunction structure. <i>Ceramics International</i> , 2019, 45, 8744-8749.	2.3	19
140	High deformation capacity and dynamic shear band propagation of imprinted amorphous Cu ₅₀ Zr ₅₀ /crystalline Cu multilayered nanofilms. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 138, 109291.	1.9	19
141	Interfacial mechanics and shear deformation of indented germanium on silicon (001) using molecular dynamics. <i>Vacuum</i> , 2020, 173, 109184.	1.6	19
142	Molecular Dynamics Analysis of Effects of Velocity and Loading on the Nanoindentation. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L1328-L1331.	0.8	18
143	Synthesis and luminescence properties of YInGe ₂ O ₇ phosphors activated by dysprosium ions. <i>Optical Materials</i> , 2009, 32, 392-397.	1.7	18
144	Nanoindentation response of nickel surface using molecular dynamics simulation. <i>Molecular Simulation</i> , 2010, 36, 815-822.	0.9	18

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145	Effects of forging temperature and velocity on nano-forming process using molecular dynamics simulation. <i>Computational Materials Science</i> , 2011, 50, 2918-2924.	1.4	18
146	Size effect on cold-welding of gold nanowires investigated using molecular dynamics simulations. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	18
147	Effect of temperature on welding of metallic nanowires investigated using molecular dynamics simulations. <i>Molecular Simulation</i> , 2016, 42, 131-137.	0.9	18
148	Dislocation interaction and fracture of Cu/Ta bilayer interfaces. <i>Physica Scripta</i> , 2019, 94, 095402.	1.2	18
149	Structural transformation and strain localization at twin boundaries in Al _{0.4} CoCrFeNi high-entropy alloy. <i>Applied Surface Science</i> , 2022, 582, 152383.	3.1	18
150	Analysis of new anisotropic conductive film (ACF). <i>IEEE Transactions on Device and Materials Reliability</i> , 2005, 5, 694-700.	1.5	17
151	Local oxidation characteristics on titanium nitride film by electrochemical nanolithography with carbon nanotube tip. <i>Electrochemistry Communications</i> , 2006, 8, 173-178.	2.3	17
152	Study on coalescent properties of ZnO nanoclusters using molecular dynamics simulation and experiment. <i>Microelectronics Journal</i> , 2006, 37, 722-727.	1.1	17
153	Size effect on shape recovery and induced strain of NiTi nanowires. <i>Applied Surface Science</i> , 2012, 258, 7064-7069.	3.1	17
154	Study of deformation and shape recovery of NiTi nanowires under torsion. <i>Journal of Molecular Modeling</i> , 2013, 19, 1883-1890.	0.8	17
155	Characteristics of Flexible Thin-Film Transistors With ZnO Channels. <i>IEEE Sensors Journal</i> , 2013, 13, 4940-4943.	2.4	17
156	Stability and wrinkling of defective graphene sheets under shear deformation. <i>Current Applied Physics</i> , 2014, 14, 533-537.	1.1	17
157	Simulation and experimental analysis of nanoindentation and mechanical properties of amorphous NiAl alloys. <i>Journal of Molecular Modeling</i> , 2015, 21, 161.	0.8	17
158	Understanding porosity and temperature induced variabilities in interface, mechanical characteristics and thermal conductivity of borophene membranes. <i>Scientific Reports</i> , 2021, 11, 12123.	1.6	17
159	Effect of interactive damping on sensitivity of vibration modes of rectangular AFM cantilevers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 312, 158-165.	0.9	16
160	Nanoindentation investigation of amorphous hydrogenated carbon thin films deposited by ECR-MPCVD. <i>Journal of Non-Crystalline Solids</i> , 2004, 333, 291-295.	1.5	16
161	Development of a three-degree-of-freedom laser linear encoder for error measurement of a high precision stage. <i>Review of Scientific Instruments</i> , 2007, 78, 066103.	0.6	16
162	Thermomechanical properties of polymer nanolithography using atomic force microscopy. <i>Micron</i> , 2011, 42, 492-497.	1.1	16

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164	Simulated nanojet ejection process by spreading droplets on a solid surface. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 8263-8270.	0.7	15
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