

Te-Hua Fang

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434
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7,132
ext. citations

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avg, IF

6.45
L-index

#	Paper	IF	Citations
412	The crystallization and physical properties of Al-doped ZnO nanoparticles. <i>Applied Surface Science</i> , 2008 , 254, 5791-5795	6.7	172
411	Three-dimensional molecular dynamics analysis of processing using a pin tool on the atomic scale. <i>Nanotechnology</i> , 2000 , 11, 148-153	3.4	148
410	Machining characterization of the nano-lithography process using atomic force microscopy. <i>Nanotechnology</i> , 2000 , 11, 181-187	3.4	101
409	Effects of AFM-based nanomachining process on aluminum surface. <i>Journal of Physics and Chemistry of Solids</i> , 2003 , 64, 913-918	3.9	98
408	Molecular dynamics simulation of nano-lithography process using atomic force microscopy. <i>Surface Science</i> , 2002 , 501, 138-147	1.8	93
407	Molecular dynamics analysis of temperature effects on nanoindentation measurement. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 357, 7-12	5.3	92
406	Nanomechanical properties of copper thin films on different substrates using the nanoindentation technique. <i>Microelectronic Engineering</i> , 2003 , 65, 231-238	2.5	87
405	Buckling characterization of vertical ZnO nanowires using nanoindentation. <i>Applied Physics Letters</i> , 2007 , 90, 033109	3.4	75
404	Synthesis, formation and characterization of ZnTiO ₃ ceramics. <i>Ceramics International</i> , 2004 , 30, 2183-2189	3.1	75
403	Molecular dynamics simulations on nanoindentation mechanisms of multilayered films. <i>Computational Materials Science</i> , 2008 , 43, 785-790	3.2	72
402	Nanomechanical properties of TiC, TiN and TiCN thin films using scanning probe microscopy and nanoindentation. <i>Applied Surface Science</i> , 2004 , 228, 365-372	6.7	69
401	A Large Area Flexible Array Sensors Using Screen Printing Technology. <i>Journal of Display Technology</i> , 2009 , 5, 178-183		68
400	Nanoindentation characterization of ZnO thin films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 715-720	5.3	68
399	Structure and luminescent properties of LaNbO ₄ synthesized by sol-gel process. <i>Journal of Luminescence</i> , 2007 , 126, 866-870	3.8	62
398	Influence of temperature on tensile and fatigue behavior of nanoscale copper using molecular dynamics simulation. <i>Journal of Physics and Chemistry of Solids</i> , 2003 , 64, 1279-1283	3.9	62
397	Replication of butterfly wing microstructures using molding lithography. <i>Current Applied Physics</i> , 2010 , 10, 625-630	2.6	61
396	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	5.3	60

395	Photoluminescent characterization of KNbO ₃ :Eu ³⁺ . <i>Materials Chemistry and Physics</i> , 2006 , 100, 418-422	4.4	60
394	Effects of pressure, temperature, and geometric structure of pillared graphene on hydrogen storage capacity. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14211-14216	6.7	59
393	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	5.3	57
392	Nanoscale mechanical characteristics of vertical ZnO nanowires grown on ZnO:Ga/glass templates. <i>Nanotechnology</i> , 2007 , 18, 225603	3.4	54
391	Growth of nanoscale InGaN self-assembled quantum dots. <i>Journal of Crystal Growth</i> , 2003 , 249, 144-148	1.6	54
390	ZnO ultraviolet photodiodes with Pd contact electrodes. <i>Acta Materialia</i> , 2007 , 55, 329-333	8.4	53
389	A molecular dynamics study of the nucleation, thermal stability and nanomechanics of carbon nanocones. <i>Nanotechnology</i> , 2007 , 18, 105702	3.4	53
388	Nanoindentation and nanoscratch characteristics of Si and GaAs. <i>Microelectronic Engineering</i> , 2005 , 77, 389-398	2.5	53
387	Atomistic simulations of hard and soft films under nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 135-141	5.3	52
386	Preparation and characteristics of hybrid ZnO-polymer solar cells. <i>Journal of Materials Science</i> , 2010 , 45, 3266-3269	4.3	48
385	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	3.9	47
384	Flexible electronics sensors for tactile multi-touching. <i>Sensors</i> , 2009 , 9, 1188-203	3.8	46
383	Nanoindentation characteristics on polycarbonate polymer film. <i>Microelectronics Journal</i> , 2004 , 35, 595-599	5.9	46
382	High dielectric permittivity of Li and Ta codoped NiO ceramics. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 863-868	3	45
381	Analysis of physical properties of III-nitride thin films by nanoindentation. <i>Journal of Electronic Materials</i> , 2003 , 32, 496-500	1.9	43
380	Physical characteristics of polyimide films for flexible sensors. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 693-701	2.6	42
379	Studies on nanoimprint process parameters of copper by molecular dynamics analysis. <i>Computational Materials Science</i> , 2005 , 34, 314-322	3.2	42
378	ZnO-based MIS photodetectors. <i>Sensors and Actuators A: Physical</i> , 2007 , 135, 529-533	3.9	41

377	The structure and properties of zinc titanate doped with strontium. <i>Journal of Alloys and Compounds</i> , 2003 , 354, 303-309	5.7	41
376	High-Sensitive Ultraviolet Photodetectors Based on ZnO Nanorods/CdS Heterostructures. <i>Nanoscale Research Letters</i> , 2017 , 12, 31	5	40
375	Nanomechanical characterization of polymer using atomic force microscopy and nanoindentation. <i>Microelectronics Journal</i> , 2005 , 36, 55-59	1.8	40
374	Response and characteristics of TiO ₂ /perovskite heterojunctions for CO gas sensors. <i>Journal of Alloys and Compounds</i> , 2019 , 794, 576-584	5.7	39
373	Molecular dynamics investigation of the mechanical properties of gallium nitride nanotubes under tension and fatigue. <i>Nanotechnology</i> , 2004 , 15, 1737-1744	3.4	39
372	Nanomechanical properties of array TiO ₂ nanotubes. <i>Microporous and Mesoporous Materials</i> , 2011 , 145, 87-92	5.3	38
371	Grain size effect on indentation of nanocrystalline copper. <i>Applied Surface Science</i> , 2015 , 353, 494-498	6.7	37
370	Nanomeasurement and fractal analysis of PZT ferroelectric thin films by atomic force microscopy. <i>Microelectronic Engineering</i> , 2003 , 65, 406-415	2.5	37
369	Dynamic characteristics of nanoindentation using atomistic simulation. <i>Acta Materialia</i> , 2009 , 57, 3341-3848	4.8	35
368	A molecular dynamics simulation of the mechanical characteristics of a C60-filled carbon nanotube under nanoindentation using various carbon nanotube tips. <i>Carbon</i> , 2011 , 49, 2053-2061	10.4	35
367	Deformation Mechanism and Punch Taper Effects on Nanoimprint Process by Molecular Dynamics. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 7665-7669	1.4	35
366	Effect of freon flow rate on tin oxide thin films deposited by chemical vapor deposition. <i>Applied Surface Science</i> , 2003 , 220, 175-180	6.7	35
365	Electrical and mechanical properties of graphene oxide on flexible substrate. <i>Journal of Physics and Chemistry of Solids</i> , 2013 , 74, 1783-1793	3.9	34
364	Nanomechanical properties of lead zirconate titanate thin films by nanoindentation. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 5253-5259	1.8	34
363	Characteristics of Au-doped SnO ₂ /ZnO heteronanostructures for gas sensing applications. <i>Vacuum</i> , 2019 , 166, 155-161	3.7	33
362	Investigations of the mechanical properties of nanoimprinted amorphous Ni ₅ Zr alloys utilizing the molecular dynamics simulation. <i>Journal of Alloys and Compounds</i> , 2016 , 659, 224-231	5.7	33
361	Preparation and characterization of Mg-doped ZnO nanorods. <i>Journal of Alloys and Compounds</i> , 2010 , 492, 536-542	5.7	32
360	Photoluminescence characteristics of ZnO doped with Eu ³⁺ powders. <i>Journal of Physics and Chemistry of Solids</i> , 2009 , 70, 1015-1018	3.9	32

359	Residual stress and elastic recovery of imprinted Cu-Zr metallic glass films using molecular dynamic simulation. <i>Computational Materials Science</i> , 2019 , 170, 109162	3.2	31
358	Inverse determination of the cutting force on nanoscale processing using atomic force microscopy. <i>Nanotechnology</i> , 2004 , 15, 427-430	3.4	30
357	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	3.1	29
356	Buckling instabilities in GaN nanotubes under uniaxial compression. <i>Nanotechnology</i> , 2005 , 16, 2203-8	3.4	29
355	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	5.7	29
354	Highly response CO ₂ gas sensor based on Au-La ₂ O ₃ doped SnO ₂ nanofibers. <i>Materials Letters</i> , 2020 , 261, 127144	3.3	28
353	Mechanical properties of free-standing graphene oxide. <i>Diamond and Related Materials</i> , 2013 , 38, 73-78	3.5	27
352	Critical size, recovery, and mechanical property of nanoimprinted NiAl alloys investigation using molecular dynamics simulation. <i>Computational Materials Science</i> , 2012 , 53, 321-328	3.2	27
351	Nanomechanical characterizations of InGaN thin films. <i>Applied Surface Science</i> , 2006 , 252, 3033-3042	6.7	27
350	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	5.3	26
349	Nanomechanical characteristics of SnO ₂ :F thin films deposited by chemical vapor deposition. <i>Applied Surface Science</i> , 2005 , 252, 1863-1869	6.7	26
348	Self-formation of GaN hollow nanocolumns by inductively coupled plasma etching. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 1607-1610	2.6	26
347	Nanotribological characteristics and strain hardening of amorphous Cu ₆₄ Zr ₃₆ / crystalline Cu nanolaminates. <i>Tribology International</i> , 2020 , 147, 106275	4.9	25
346	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	3.2	25
345	Atomic-level stress calculation and surface roughness of film deposition process using molecular dynamics simulation. <i>Computational Materials Science</i> , 2010 , 48, 520-528	3.2	25
344	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	3.1	25
343	Optical and physical characteristics of In-doped ZnO nanorods. <i>Current Applied Physics</i> , 2010 , 10, 1076-1086	3.6	25
342	Luminescent and structural properties of MgNb ₂ O ₆ nanocrystals. <i>Current Opinion in Solid State and Materials Science</i> , 2008 , 12, 51-54	12	25

341	Effect of indium dopant on surface and mechanical characteristics of ZnO : In nanostructured films. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 245303	3	25
340	Surface and physical characteristics of ZnO:Al nanostructured films. <i>Journal of Applied Physics</i> , 2009 , 105, 113512	2.5	24
339	Nanolithography and nanoindentation of tantalum-oxide nanowires and nanodots using scanning probe microscopy. <i>Physica B: Condensed Matter</i> , 2004 , 352, 190-199	2.8	24
338	A novel method to realize InGaN self-assembled quantum dots by metalorganic chemical vapor deposition. <i>Materials Letters</i> , 2003 , 57, 4218-4221	3.3	24
337	Mechanisms of p-GaAs(100) surface by atomic force microscope nano-oxidation. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 2424-2432	3	24
336	Atomistic simulations of nanowelding of single-crystal and amorphous gold nanowires. <i>Journal of Applied Physics</i> , 2015 , 117, 014307	2.5	23
335	Effect of thermal annealing on nanoimprinted CuNi alloys using molecular dynamics simulation. <i>Applied Surface Science</i> , 2009 , 255, 6043-6047	6.7	23
334	Synthesis and luminescent properties of ZnNb ₂ O ₆ nanocrystals for solar cell. <i>Materials Letters</i> , 2010 , 64, 2563-2565	3.3	23
333	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	3.8	23
332	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	3.9	23
331	Effects of temperature, strain rate, and vacancies on tensile and fatigue behaviors of silicon-based nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	23
330	Dielectric relaxation property and barrier layer formation in CrNbO ₄ oxides. <i>Journal of Alloys and Compounds</i> , 2006 , 421, 240-246	5.7	23
329	Nanomechanical properties of nanocrystalline NiFe mold insert. <i>Journal of Alloys and Compounds</i> , 2004 , 372, 224-230	5.7	23
328	Mechanical characteristics of graphene nanoribbons encapsulated in single-walled carbon nanotubes using molecular dynamics simulations. <i>Applied Surface Science</i> , 2015 , 356, 221-225	6.7	22
327	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	2.6	22
326	Molecular dynamics analysis of nanoimprinted CuNi alloys. <i>Applied Surface Science</i> , 2007 , 253, 6963-6968	6.7	22
325	Physical Behavior of Nanoporous Anodic Alumina Using Nanoindentation and Microhardness Tests. <i>Nanoscale Research Letters</i> , 2007 , 2, 410-415	5	22
324	InGaN quantum dot photodetectors. <i>Solid-State Electronics</i> , 2003 , 47, 1753-1756	1.7	22

323	Dielectric relaxation properties of perovskite-pyrochlore biphase ceramics. <i>Applied Physics Letters</i> , 2005 , 87, 142906	3.4	22
322	Nanometric mechanical cutting of metallic glass investigated using atomistic simulation. <i>Applied Surface Science</i> , 2017 , 396, 319-326	6.7	21
321	Size effect of nanodiamonds on P3HT:PCBM heterojunction solar cells. <i>Electrochemistry Communications</i> , 2012 , 18, 4-7	5.1	21
320	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	3	21
319	Mechanical characterization of nanoindented graphene via molecular dynamics simulations. <i>Nanoscale Research Letters</i> , 2011 , 6, 481	5	21
318	Formation mechanism and mechanics of dip-pen nanolithography using molecular dynamics. <i>Langmuir</i> , 2010 , 26, 3237-41	4	21
317	The deposition of Fe or Co clusters on Cu substrate by molecular dynamic simulation. <i>Surface Science</i> , 2011 , 605, 46-53	1.8	21
316	Molecular dynamic simulation and characterization of self-assembled monolayer under sliding friction. <i>Computational Materials Science</i> , 2007 , 39, 808-816	3.2	21
315	Experimental and numerical investigation into buckling instability of carbon nanotube probes under nanoindentation. <i>Applied Physics Letters</i> , 2007 , 90, 161913	3.4	21
314	Pile-up and heat effect on the mechanical response of SiGe on Si(001) substrate during nanoscratching and nanoindentation using molecular dynamics. <i>Computational Materials Science</i> , 2020 , 174, 109465	3.2	21
313	Material removal and interactions between an abrasive and a SiC substrate: A molecular dynamics simulation study. <i>Ceramics International</i> , 2020 , 46, 5623-5633	5.1	21
312	Red-Shift Effect and Sensitive Responsivity of MoS ₂ /ZnO Flexible Photodetectors. <i>Nanoscale Research Letters</i> , 2015 , 10, 443	5	20
311	Atomic-scale simulations of material behaviors and tribology properties for FCC and BCC metal films. <i>Materials Letters</i> , 2012 , 80, 59-62	3.3	20
310	Coalescence, melting, and mechanical characteristics of carbon nanotube junctions. <i>Physical Review B</i> , 2006 , 74,	3.3	20
309	Nanotribology and fractal analysis of ZnO thin films using scanning probe microscopy. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 878-883	3	20
308	Microthermal machining using scanning thermal microscopy. <i>Applied Surface Science</i> , 2005 , 240, 312-317	6.7	20
307	Molecular dynamics studies of atomic-scale tribological characteristics for different sliding systems. <i>Tribology Letters</i> , 2005 , 18, 315-330	2.8	20
306	Rapid detection of low concentrations of H ₂ S using CuO-doped ZnO nanofibers. <i>Journal of Alloys and Compounds</i> , 2021 , 852, 157014	5.7	20

305	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	5.5	19
304	Nanoscratch behavior of multi-layered films using molecular dynamics. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 90, 753-758	2.6	19
303	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	5.3	19
302	Nanomechanical characterization of amorphous hydrogenated carbon thin films. <i>Applied Surface Science</i> , 2006 , 252, 6243-6248	6.7	19
301	Mechanisms of nanooxidation of Si(100) from atomic force microscopy. <i>Microelectronics Journal</i> , 2004 , 35, 701-707	1.8	19
300	Molecular dynamics simulation of abrasive characteristics and interfaces in chemical mechanical polishing. <i>Applied Surface Science</i> , 2020 , 509, 144676	6.7	19
299	Nanomilling mechanism on Cu surfaces investigated using atomistic simulation. <i>Molecular Simulation</i> , 2015 , 41, 1159-1165	2	18
298	Mechanical properties of pillared-graphene nanostructures using molecular dynamics simulations. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 405302	3	18
297	Molecular dynamics simulations of hydrogen storage capacity of few-layer graphene. <i>Journal of Molecular Modeling</i> , 2013 , 19, 3813-9	2	18
296	Mass Detection in Viscous Fluid Utilizing Vibrating Micro- and Nanomechanical Mass Sensors under Applied Axial Tensile Force. <i>Sensors</i> , 2015 , 15, 19351-68	3.8	18
295	Effects of forging temperature and velocity on nano-forming process using molecular dynamics simulation. <i>Computational Materials Science</i> , 2011 , 50, 2918-2924	3.2	18
294	Effects of strain on the characteristics of InGa _{0.5} Ni _{0.5} GaN multiple quantum-dot blue light emitting diodes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 355, 118-121	2.3	18
293	Molecular dynamics studies of atomic-scale friction for roller-on-slab systems with different rolling/sliding conditions. <i>Nanotechnology</i> , 2005 , 16, 1941-1949	3.4	18
292	Void growth and coalescence in Cu-Ta metallic glasses using molecular dynamics. <i>Computational Materials Science</i> , 2019 , 168, 144-153	3.2	17
291	Nanoindentation response of nickel surface using molecular dynamics simulation. <i>Molecular Simulation</i> , 2010 , 36, 815-822	2	17
290	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	9.2	17
289	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	2.6	17
288	Critical conditions of epitaxy, mixing and sputtering growth on Cu(100) surface using molecular dynamics. <i>Computational Materials Science</i> , 2007 , 41, 70-77	3.2	17

287	Effect of temperature on welding of metallic nanowires investigated using molecular dynamics simulations. <i>Molecular Simulation</i> , 2016 , 42, 131-137	2	16
286	Study of deformation and shape recovery of NiTi nanowires under torsion. <i>Journal of Molecular Modeling</i> , 2013 , 19, 1883-90	2	16
285	Size effect on shape recovery and induced strain of NiTi nanowires. <i>Applied Surface Science</i> , 2012 , 258, 7064-7069	6.7	16
284	Physical Properties of ZnO: Al Nanorods for Piezoelectric Nanogenerator Application. <i>Current Nanoscience</i> , 2010 , 6, 505-511	1.4	16
283	Local oxidation characteristics on titanium nitride film by electrochemical nanolithography with carbon nanotube tip. <i>Electrochemistry Communications</i> , 2006 , 8, 173-178	5.1	16
282	Analysis of new anisotropic conductive film (ACF). <i>IEEE Transactions on Device and Materials Reliability</i> , 2005 , 5, 694-700	1.6	16
281	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	3.9	16
280	Effect of nanograin size on nanoformed NiTi alloys. <i>Applied Surface Science</i> , 2014 , 292, 500-505	6.7	15
279	Stability and wrinkling of defective graphene sheets under shear deformation. <i>Current Applied Physics</i> , 2014 , 14, 533-537	2.6	15
278	Elasticity and nanomechanical response of <i>Aspergillus niger</i> spores using atomic force microscopy. <i>Micron</i> , 2012 , 43, 407-11	2.3	15
277	. <i>IEEE Sensors Journal</i> , 2013 , 13, 4940-4943	4	15
276	Synthesis and luminescence properties of YInGe ₂ O ₇ phosphors activated by dysprosium ions. <i>Optical Materials</i> , 2009 , 32, 392-397	3.3	15
275	Material removal and wear mechanism in abrasive polishing of SiO ₂ /SiC using molecular dynamics. <i>Ceramics International</i> , 2020 , 46, 21578-21595	5.1	14
274	Effects of grain and twin boundary on friction and contact characteristics of CuZrAl nanocrystallines. <i>Applied Surface Science</i> , 2020 , 524, 146458	6.7	14
273	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	5.3	14
272	Contact and frictional behavior of rough surfaces using molecular dynamics combined with fractal theory. <i>Computational Materials Science</i> , 2007 , 40, 480-484	3.2	14
271	Study on coalescent properties of ZnO nanoclusters using molecular dynamics simulation and experiment. <i>Microelectronics Journal</i> , 2006 , 37, 722-727	1.8	14
270	Simulated nanojet ejection process by spreading droplets on a solid surface. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 8263-8270	1.8	14

269	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	2.3	14
268	Nanoindentation investigation of amorphous hydrogenated carbon thin films deposited by ECR-MPCVD. <i>Journal of Non-Crystalline Solids</i> , 2004 , 333, 291-295	3.9	14
267	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	5.5	14
266	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	5.7	13
265	Molecular dynamics simulations of nanoindentation and scratch in Cu grain boundaries. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2283-2295	3	13
264	Optical characteristics of LiZnVO ₄ green phosphor at low temperature preparation. <i>Materials Letters</i> , 2012 , 70, 163-166	3.3	13
263	Simulation and experimental analysis of nanoindentation and mechanical properties of amorphous NiAl alloys. <i>Journal of Molecular Modeling</i> , 2015 , 21, 161	2	13
262	Flexible piezoelectric harvesting based on epitaxial growth of ZnO. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 102, 705-711	2.6	13
261	Preparation and luminescent characteristic of Li ₃ NbO ₄ nanophosphor. <i>Journal of Luminescence</i> , 2010 , 130, 1863-1865	3.8	13
260	Effect of substrate temperature and deposition rate on alloyzation for Co or Fe onto Cu(001) substrate. <i>Journal of Applied Physics</i> , 2008 , 103, 124313	2.5	13
259	Characterization and fabrication of wireless flexible physiological monitor sensor. <i>Sensors and Actuators A: Physical</i> , 2008 , 143, 196-203	3.9	13
258	Microstructural, Raman and dielectric properties of (1-x)NaNbO ₃ -xBiCrO ₃ biphas ceramic. <i>Journal of Alloys and Compounds</i> , 2007 , 430, 313-319	5.7	13
257	Effects of temperature and velocity of droplet ejection process of simulated nanojets onto a moving plate surface. <i>Applied Surface Science</i> , 2006 , 253, 1649-1654	6.7	13
256	An inverse method for determining the interaction force between the probe and sample using scanning near-field optical microscopy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 348, 260-265	2.3	13
255	GaN nanocolumns formed by inductively coupled plasmas etching. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 28, 115-120	3	13
254	Effects of substrate bias on nanotribology of a-C:H films deposited by ECR-MPCVD. <i>Diamond and Related Materials</i> , 2002 , 11, 1653-1659	3.5	13
253	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	2.6	13
252	Anisotropic mechanical strength, negative Poisson's ratio and fracture mechanism of borophene with defects. <i>Thin Solid Films</i> , 2020 , 709, 138197	2.2	12

251	Thermomechanical properties of polymer nanolithography using atomic force microscopy. <i>Micron</i> , 2011 , 42, 492-7	2.3	12
250	Flexible electronics sensors for tactile multiscanning. <i>Review of Scientific Instruments</i> , 2009 , 80, 084701	1.7	12
249	Interface dynamics and mechanisms of nanoindented alkanethiol self-assembled monolayers using molecular simulations. <i>Journal of Colloid and Interface Science</i> , 2010 , 345, 19-26	9.3	12
248	Finite-element analysis of the mechanical behavior of Au/Cu and Cu/Au multilayers on silicon substrate under nanoindentation. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 90, 457-463	2.6	12
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