

Te-Hua Fang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

412
papers

6,306
citations

39
h-index

56
g-index

434
ext. papers

7,132
ext. citations

3.1
avg, IF

6.45
L-index

#	Paper	IF	Citations
412	Characteristics and gas sensor applications of ZnO-Perovskite heterostructure. <i>Ceramics International</i> , 2022 ,	5.1	2
411	Material removal mechanism and deformation characteristics of GaN surface at the nanoscale. <i>Superlattices and Microstructures</i> , 2022 , 107159	2.8	
410	Nanomachining characteristics of textured polycrystalline NiFeCo alloy using molecular dynamics. <i>Journal of Manufacturing Processes</i> , 2022 , 74, 423-440	5	1
409	Interfacial strength and deformation mechanism of Ni/Co multilayers under uniaxial tension using molecular dynamics simulation. <i>Materials Today Communications</i> , 2022 , 30, 103088	2.5	2
408	Structural transformation and strain localization at twin boundaries in Al _{0.4} CoCrFeNi high-entropy alloy. <i>Applied Surface Science</i> , 2022 , 582, 152383	6.7	1
407	Structure-mechanical property relations of nanoporous two-dimensional gallium selenide. <i>Computational Materials Science</i> , 2022 , 202, 110985	3.2	2
406	Mechanical characteristics of Ni ₅₀ Co ₅₀ /Ni substrate during indentation by molecular dynamics. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2022 , 30, 045006	2	0
405	Investigating the structures and residual stress of Cu _x (FeAlCr) _{100-x} film on Ni substrate using molecular dynamics. <i>Materials Today Communications</i> , 2022 , 31, 103378	2.5	
404	Characteristics and heterostructure of metal-doped TiO ₂ /ZnO nanocatalysts. <i>Current Applied Physics</i> , 2022 , 38, 1-6	2.6	0
403	Effects of microstructure and temperature on mechanical properties of gradient nano-grained nickel-titanium-copper films. <i>Materials Today Communications</i> , 2022 , 31, 103294	2.5	0
402	Fracture mechanism and temperature/size-dependent thermal conductivity in gallium selenide monolayer. <i>Vacuum</i> , 2022 , 201, 111037	3.7	2
401	Mechanical and thermal characterizations of nanoporous two-dimensional boron nitride membranes.. <i>Scientific Reports</i> , 2022 , 12, 6306	4.9	1
400	Thermal and mechanical characterization of nanoporous two-dimensional MoS membranes.. <i>Scientific Reports</i> , 2022 , 12, 7777	4.9	1
399	Revealing the mechanisms for inactive rolling and wear behaviour on chemical mechanical planarization. <i>Applied Surface Science</i> , 2022 , 595, 153524	6.7	0
398	Machining mechanism and deformation behavior of high-entropy alloy under elliptical vibration cutting. <i>Intermetallics</i> , 2021 , 131, 107079	3.5	9
397	Effect of incidence and size of graphite particle on the formation of graphene on Ni surfaces. <i>Vacuum</i> , 2021 , 187, 110092	3.7	5
396	Effects of tool rake angle and workpiece surface roughness on nanocutting of cu investigated using Multiscale simulation. <i>Molecular Simulation</i> , 2021 , 47, 1010-1016	2	0

395	Understanding porosity and temperature induced variabilities in interface, mechanical characteristics and thermal conductivity of borophene membranes. <i>Scientific Reports</i> , 2021 , 11, 12123	4.9	5
394	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
393	Influences of grain size, alloy composition, and temperature on mechanical characteristics of Si _{100-x} Ge _x alloys during indentation process. <i>Materials Science in Semiconductor Processing</i> , 2021 , 123, 105568	4.3	11
392	The influence of intrinsic size in amorphous Cu _x Ta _{100-x} /Cu crystalline nanolaminates using molecular dynamics simulation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 126, 114470	3.0	6
391	Mechanical Responses of Single-Layer Borophene Under Nanoindentation Using Molecular Dynamics. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 101-106	0.4	
390	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	4.2	4
389	Microstructure and composition dependence of mechanical characteristics of nanoimprinted AlCoCrFeNi high-entropy alloys. <i>Scientific Reports</i> , 2021 , 11, 13680	4.9	3
388	Atomic stick-slip behaviors and anisotropic deformations on a rough surface during GaN wafer polishing: A simulation study. <i>Thin Solid Films</i> , 2021 , 731, 138744	2.2	2
387	Effects of temperature and repeat layer spacing on mechanical properties of graphene/polycrystalline copper nanolaminated composites under shear loading. <i>Beilstein Journal of Nanotechnology</i> , 2021 , 12, 863-877	3	
386	Contact strength and deformation of straining free-standing borophene. <i>Computational Materials Science</i> , 2021 , 197, 110624	3.2	4
385	Phase transformation and subsurface damage formation in the ultrafine machining process of a diamond substrate through atomistic simulation. <i>Scientific Reports</i> , 2021 , 11, 17795	4.9	3
384	Mechanical mechanism and deformation behavior of polycrystalline and gradient Ni ₅₀ Ti ₅₀ Al _x alloys using molecular dynamics. <i>Materials Today Communications</i> , 2021 , 28, 102724	2.5	0
383	Interfacial and mechanical characteristics of TiN/Al composites under nanoindentation. <i>International Journal of Solids and Structures</i> , 2021 , 226-227, 111083	3.1	2
382	Phase transformation and microstructure evolution of nanoimprinted NiCoCr medium entropy alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 162138	5.7	1
381	Mechanical response of Zr _x Cu _{100-x} layer on Cu(001) substrate using molecular dynamics. <i>Thin Solid Films</i> , 2021 , 138954	2.2	0
380	Impact and wetting properties of Au nanoparticle on Cu(001) textured surfaces by molecular dynamics. <i>Materials Chemistry and Physics</i> , 2021 , 272, 125039	4.4	0
379	Anisotropic crack propagation and self-healing mechanism of freestanding black phosphorus nanosheets. <i>Nanotechnology</i> , 2021 , 32, 165704	3.4	4
378	Effects of temperature and thickness on the fracture and mechanical properties of Si/Ge multilayers using molecular dynamics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 123, 114198	3	1

377	Effects of flaw shape and size on fracture toughness and destructive mechanism inside Ni ₁₅ Al ₇₀ Co ₁₅ metallic glass. <i>Computational Materials Science</i> , 2020 , 183, 109807	3.2	7
376	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
375	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
374	Effects of grain size and indentation sensitivity on deformation mechanism of nanocrystalline tantalum. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020 , 92, 105304	4.1	3
373	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
372	Mechanistic Insights and Photodegradation of Heterostructure Graphene Oxide/Titanium Dioxide. <i>Topics in Catalysis</i> , 2020 , 63, 956-963	2.3	2
371	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
370	Corrosion Resistant Coatings Based on Zinc Nanoparticles, Epoxy and Silicone Resins. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 6389-6395	1.3	5
369	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
368	Size effect and interfacial strength in nanolaminated Cu/Cu _x Ta _{100-x} composites using molecular dynamics. <i>Computational Materials Science</i> , 2020 , 184, 109890	3.2	9
367	Effect of annealing and deposition of Cu atoms on Ni trench to interface formation and growth mechanisms of Cu coating. <i>Superlattices and Microstructures</i> , 2020 , 139, 106402	2.8	7
366	Interfacial mechanics and shear deformation of indented germanium on silicon (001) using molecular dynamics. <i>Vacuum</i> , 2020 , 173, 109184	3.7	9
365	Strain rate and shear-transformation zone response of nanoindentation and nanoscratching on Ni ₅₀ Zr ₅₀ metallic glasses using molecular dynamics. <i>Physica B: Condensed Matter</i> , 2020 , 583, 412021	2.8	4
364	Nanotribological characteristics and strain hardening of amorphous Cu ₆₄ Zr ₃₆ / crystalline Cu nanolaminates. <i>Tribology International</i> , 2020 , 147, 106275	4.9	25
363	Investigation of a Desalination System With the Hybrid Solar/Electrical Heating Module. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2020 , 142,	2.3	3
362	Structure and Characteristics of Electrospun ZnO Nanofibers for Gas Sensing. <i>Current Nanoscience</i> , 2020 , 16, 187-195	1.4	3
361	Mechanical Property and Fracture Characteristic of Ti ₄₀ Ni ₆₀ Al _x Bulk Metallic Glasses under Different Strain Rates. <i>Materials Transactions</i> , 2020 , 61, 1607-1612	1.3	0
360	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

359	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
358	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
357	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
356	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
355	Molecular dynamics simulation of abrasive characteristics and interfaces in chemical mechanical polishing. <i>Applied Surface Science</i> , 2020 , 509, 144676	6.7	19
354	Effects of constituting material and interfacial crack on mechanical response of nanoscale metallic bilayers in a quasi-continuum study. <i>Molecular Simulation</i> , 2020 , 46, 1155-1163	2	0
353	Structural and mechanical characterization of sputtered Cu _x Ni _{100-x} thin film using molecular dynamics. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 147, 109663	3.9	5
352	Mechanical and thermal conductivity properties of BiSbTe nanofilms using molecular dynamics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 124, 114300	3	0
351	Effects of temperature and intrinsic structural defects on mechanical properties and thermal conductivities of InSe monolayers. <i>Scientific Reports</i> , 2020 , 10, 15082	4.9	9
350	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
349	Thermal conductivity variation of Bi ₂ Te ₃ nanofilm with interfacial defects using molecular dynamics. <i>AIP Advances</i> , 2019 , 9, 075210	1.5	1
348	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	5.1	11
347	Void growth and coalescence in Cu-Ta metallic glasses using molecular dynamics. <i>Computational Materials Science</i> , 2019 , 168, 144-153	3.2	17
346	Characteristics of Au-doped SnO ₂ /ZnO heteronanostructures for gas sensing applications. <i>Vacuum</i> , 2019 , 166, 155-161	3.7	33
345	Dislocation interaction and fracture of Cu/Ta bilayer interfaces. <i>Physica Scripta</i> , 2019 , 94, 095402	2.6	10
344	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
343	Fracture characteristics of silicene nanosheet with a crack under tension estimated using molecular dynamics simulation. <i>Superlattices and Microstructures</i> , 2019 , 129, 124-129	2.8	4
342	Enhancing the efficiency of silicon solar cells using ZnO nanostructures prepared by microwave-assisted hydrothermal method. <i>Materials Research Express</i> , 2019 , 6, 075905	1.7	

341	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
340	Effects of mold pattern characteristics on nanoimprinted aluminum investigated using quasi-continuum simulations. <i>Engineering Research Express</i> , 2019 , 1, 015016	0.9	0
339	Mechanical characteristics of Ni Ti Cu alloys from experiments and molecular dynamics simulations. <i>Journal of Non-Crystalline Solids</i> , 2019 , 525, 119676	3.9	3
338	Effects of Temperature and Alloy Composition on Nanomechanical Properties of ZrCu Metallic Glass under Tension. <i>Current Nanoscience</i> , 2019 , >15, 481-485	1.4	1
337	Mechanical properties and mechanism of NiTi pillars using in-situ compression and indentation. <i>Materials Research Express</i> , 2019 , 6, 045036	1.7	1
336	Friction and scratch characteristics of textured and rough surfaces using the quasi-continuum method. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 126, 180-188	3.9	8
335	Nanowelding of nickel and copper investigated using quasi-continuum simulations. <i>Multiscale and Multidisciplinary Modeling, Experiments and Design</i> , 2019 , 2, 63-71	1.4	0
334	Incipient plasticity and voids nucleation of nanocrystalline gold nanofilms using molecular dynamics simulation. <i>Current Applied Physics</i> , 2019 , 19, 332-340	2.6	11
333	Determining porosity effect on the thermal conductivity of single-layer graphene using a molecular dynamics simulation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 106, 90-94	3	7
332	In situdeformation and mechanical properties of bismuth telluride prepared via zone melting. <i>Materials Research Express</i> , 2018 , 5, 035010	1.7	2
331	Strain effect on the heat transport properties of bismuth telluride nanofilms with a hole. <i>Solid State Communications</i> , 2018 , 274, 1-4	1.6	2
330	Photoluminescent properties of Eu-doped ZnLiNbO ₄ . <i>Materials Research Express</i> , 2018 , 5, 046205	1.7	1
329	Effect of the interface on the mechanical properties and thermal conductivity of bismuth telluride films. <i>Materials Research Express</i> , 2018 , 5, 026408	1.7	3
328	Mechanical properties and mechanism of single crystal Cu pillar by in situ TEM compression and molecular dynamics simulation. <i>Materials Research Express</i> , 2018 , 5, 026516	1.7	
327	Incipient plasticity and indentation response of MgO surfaces using molecular dynamics. <i>Materials Research Express</i> , 2018 , 5, 055017	1.7	6
326	Improvement efficiency of perovskite solar cells by hybrid electro spray and vapor-assisted solution technology. <i>Organic Electronics</i> , 2018 , 57, 221-225	3.5	5
325	Adsorption of H ₂ CO, CO ₂ N ₂ O ₂ and CH ₄ on Pillared Graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 39-43	1.3	3
324	Quasi-continuum simulations of side-to-side nanowelding of metals. <i>Journal of Molecular Modeling</i> , 2018 , 24, 222	2	1

323	Photocatalytic and optical characteristics of ZnIn ₂ S ₄ microspheres. <i>Materials Research Express</i> , 2018 , 5, 115507	1.7	3
322	Fatigue crack growth characteristics of Fe and Ni under cyclic loading using a quasi-continuum method. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1000-1014	3	2
321	Characteristics of Molybdenum Disulfide Nanoparticles for Heterojunction Polymer Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 2576-2581	1.3	
320	Annealing effect on electrical, nanomechanical and sensing properties of ZnO/Mo/ZnO nanofilms. <i>Microsystem Technologies</i> , 2018 , 24, 4035-4041	1.7	1
319	Numerical simulation and design of casting system for stainless steel exhaust manifold. <i>MATEC Web of Conferences</i> , 2018 , 185, 00008	0.3	4
318	Size-dependent strength and interface-dominated deformation mechanisms of Cu/Zr multilayer nanofilms. <i>Results in Physics</i> , 2018 , 11, 684-689	3.7	6
317	Quasi-continuum Simulations of Solid-state Pressure Nanowelding of Metals. <i>Current Nanoscience</i> , 2018 , 14, 179-186	1.4	1
316	Nanometric mechanical cutting of metallic glass investigated using atomistic simulation. <i>Applied Surface Science</i> , 2017 , 396, 319-326	6.7	21
315	Nanoindentation and Deformation of Multilayered Au/Cu Films. <i>Smart Science</i> , 2017 , 5, 1-13	1.5	5
314	High-Sensitive Ultraviolet Photodetectors Based on ZnO Nanorods/CdS Heterostructures. <i>Nanoscale Research Letters</i> , 2017 , 12, 31	5	40
313	High Sensitivity ZnO Nanorod-Based Flexible Photodetectors Enhanced by CdSe/ZnS Core-Shell Quantum Dots. <i>IEEE Sensors Journal</i> , 2017 , 17, 3710-3713	4	6
312	The crack growth and expansion characteristics of Fe and Ni using quasi-continuum method. <i>Materials Research Express</i> , 2017 , 4, 035019	1.7	5
311	Mechanical properties of CIGS film with different metallic composition by co-evaporation method. <i>Materials Research Express</i> , 2017 , 4, 115006	1.7	3
310	Molecular dynamics simulations of nanoindentation and scratch in Cu grain boundaries. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2283-2295	3	13
309	Molecular dynamics study of the shear strength and fracture behavior of nanoporous graphene membranes. <i>Current Applied Physics</i> , 2017 , 17, 1323-1328	2.6	6
308	Physical Characteristics of Ni x Zr _{100-x} Alloys Based on Stretching and Heating Processes Using Molecular Dynamics Simulation. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017 , 53, 978-983	6.9	1
307	Interface Friction of Double-Walled Carbon Nanotubes Investigated Using Molecular Dynamics \square <i>Micromachines</i> , 2017 , 8, 84	3.3	2
306	Mechanical properties and crack growth behavior of polycrystalline copper using molecular dynamics simulation. <i>Physica Scripta</i> , 2017 , 92, 085702	2.6	9

305	Mechanical properties and deformation mechanism of Al ₂ O ₃ determined from in situ transmission electron microscopy compression. <i>Materials Research Express</i> , 2017 , 4, 075035	1.7	2
304	Atomic simulation of wrinkling and deformation in curved graphene nanoribbons under boundary confinement. <i>Materials and Design</i> , 2016 , 89, 470-475	8.1	9
303	Effect of temperature on welding of metallic nanowires investigated using molecular dynamics simulations. <i>Molecular Simulation</i> , 2016 , 42, 131-137	2	16
302	Microscopic properties of a nanocrystal aluminum thin film during nanoimprint using quasi-continuous method. <i>Thin Solid Films</i> , 2016 , 612, 237-242	2.2	6
301	Strength and Mechanical Response of NaCl Using In-Situ Transmission Electron Microscopy Compression and Nanoindentation. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 2603-7	1.3	5
300	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
299	Torsional characteristics of graphene nanoribbons encapsulated in single-walled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 83, 263-267	3	4
298	Analysis of welding Au nanowires into T junctions. <i>Molecular Simulation</i> , 2016 , 42, 1029-1034	2	8
297	Tensile fracture of graphene nanoribbons encapsulated in single-walled carbon nanotubes. <i>Acta Mechanica</i> , 2016 , 227, 2961-2967	2.1	4
296	Molecular dynamics study of the tensile behavior of pillared graphene nanostructures. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 040301	1.4	3
295	Effects of interface dynamics and layered structure on nanoformed gold films investigated using molecular dynamics simulation. <i>Molecular Simulation</i> , 2016 , 42, 702-708	2	1
294	Mechanical Response and Deformation of Ni ₃ Al ₇ Alloys Using In-Situ Transmission Electron Microscopy Compression and Nanoindentation. <i>Science of Advanced Materials</i> , 2016 , 8, 1571-1578	2.3	5
293	Stress Waves and Characteristics of Zigzag and Armchair Silicene Nanoribbons. <i>Nanomaterials</i> , 2016 , 6,	5.4	8
292	The manufacture and characteristics analysis of electrospun tungsten trioxide nanofibers. <i>Smart Science</i> , 2016 , 4, 22-27	1.5	5
291	Simultaneous determination of the residual stress, elastic modulus, density and thickness of ultrathin film utilizing vibrating doubly clamped micro-/nanobeams. <i>AIP Advances</i> , 2016 , 6, 045005	1.5	7
290	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
289	Investigations of the mechanical properties of nanoimprinted amorphous Ni ₄ Zr alloys utilizing the molecular dynamics simulation. <i>Journal of Alloys and Compounds</i> , 2016 , 659, 224-231	5.7	33
288	Frictional Characteristics of Graphene Layers Using Molecular Dynamics Simulation. <i>Nano</i> , 2016 , 11, 1650096		2

287	Nanoindentation analysis of 3D-pillared carbon nanostructures used for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 13771-13776	6.7	4
286	Rolling Resistance and Mechanical Properties of Grinded Copper Surfaces Using Molecular Dynamics Simulation. <i>Nanoscale Research Letters</i> , 2016 , 11, 401	5	3
285	Enhanced electrical conductivity and mechanical properties of Mo-interlayered ZnO multilayer nanofilms for NO sensor. <i>Surface and Coatings Technology</i> , 2016 , 307, 622-626	4.4	5
284	Atomistic simulation of nanodrilling mechanics and mechanism on Cu substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 118, 307-313	2.6	11
283	Grain size effect on indentation of nanocrystalline copper. <i>Applied Surface Science</i> , 2015 , 353, 494-498	6.7	37
282	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
281	Nanomilling mechanism on Cu surfaces investigated using atomistic simulation. <i>Molecular Simulation</i> , 2015 , 41, 1159-1165	2	18
280	Mechanical characteristics of copper indium gallium diselenide compound nanopillars using in situ transmission electron microscopy compression. <i>Scripta Materialia</i> , 2015 , 108, 130-135	5.6	9
279	Synthesis and Characteristics of ZnS Nanospheres for Heterojunction Photovoltaic Device. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 2282-2286	1.6	5
278	Atomistic simulations of nanowelding of single-crystal and amorphous gold nanowires. <i>Journal of Applied Physics</i> , 2015 , 117, 014307	2.5	23
277	Red-Shift Effect and Sensitive Responsivity of MoS ₂ /ZnO Flexible Photodetectors. <i>Nanoscale Research Letters</i> , 2015 , 10, 443	5	20
276	Micro-/nanosized cantilever beams and mass sensors under applied axial tensile/compressive force vibrating in vacuum and viscous fluid. <i>AIP Advances</i> , 2015 , 5, 117140	1.5	11
275	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
274	Topographical and Tribological Characteristics of Asian Human Hair Cuticles. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-5	1.1	1
273	Simulation and experimental analysis of nanoindentation and mechanical properties of amorphous NiAl alloys. <i>Journal of Molecular Modeling</i> , 2015 , 21, 161	2	13
272	Electromechanical and Photoluminescence Properties of Al-doped ZnO Nanorods Applied in Piezoelectric Nanogenerators. <i>Journal of Low Temperature Physics</i> , 2015 , 178, 174-187	1.3	11
271	P3HT:PCBM Doped with Multi-Walled Carbon Nanotubes for Enhancing Efficiency and Nanomechanical Properties of Hybrid Photovoltaics. <i>Science of Advanced Materials</i> , 2015 , 7, 278-282	2.3	2
270	Effect of nanograin size on nanoformed NiTi alloys. <i>Applied Surface Science</i> , 2014 , 292, 500-505	6.7	15

269	Size effect on mechanical properties of TiO ₂ capped nanotubes investigated using in situ transmission electron microscopy. <i>Microsystem Technologies</i> , 2014 , 20, 515-520	1.7	7
268	Optical properties of yellow-light-emitting LiZnVO ₄ :Eu ³⁺ phosphor prepared by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 69, 299-302	2.3	6
267	Effects of ITO film annealing temperature on hybrid solar cell performance. <i>Microsystem Technologies</i> , 2014 , 20, 1181-1185	1.7	4
266	Molecular dynamics simulation of nanoscale mechanical behaviour of ZnO under nanoscratching and nanoindentation. <i>Molecular Physics</i> , 2014 , 112, 3152-3164	1.7	4
265	Effects of mold geometry and taper angles on the filling mechanism of a nanoimprinted polymer using molecular dynamics. <i>Applied Surface Science</i> , 2014 , 316, 292-300	6.7	10
264	Mechanical properties of pillared-graphene nanostructures using molecular dynamics simulations. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 405302	3	18
263	Stability and wrinkling of defective graphene sheets under shear deformation. <i>Current Applied Physics</i> , 2014 , 14, 533-537	2.6	15
262	Buckling instability of zinc oxide nanobelts under uniaxial compression investigated using molecular dynamics. <i>Computational Materials Science</i> , 2014 , 85, 217-222	3.2	2
261	Analysis and Nanomold Design for Aluminum Nanoimprinting. <i>Smart Science</i> , 2014 , 2, 168-172	1.5	8
260	MOLECULAR DYNAMICS ANALYSIS FOR FRACTURE BEHAVIOR OF GRAPHENE SHEETS WITH V-SHAPED NOTCHES UNDER TENSION. <i>Nano</i> , 2014 , 09, 1450087	1.1	2
259	Fabrication of Hybrid Organic Photovoltaic Devices Using Electrostatic Spray Method. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-5	2.1	4
258	Size effect on compression properties of GaN nanocones examined using in situ transmission electron microscopy. <i>Journal of Alloys and Compounds</i> , 2014 , 597, 72-78	5.7	9
257	Fabrication and Mechanical Properties of Graphene Oxide-Al ₂ O ₃ Oxide Hybrid Material. <i>Science of Advanced Materials</i> , 2014 , 6, 1951-1956	2.3	2
256	Study of deformation and shape recovery of NiTi nanowires under torsion. <i>Journal of Molecular Modeling</i> , 2013 , 19, 1883-90	2	16
255	Size effect on nanomechanical properties of ZnO cones using in situ transmission electron microscopy. <i>Current Applied Physics</i> , 2013 , 13, 1689-1696	2.6	4
254	Mechanical properties of free-standing graphene oxide. <i>Diamond and Related Materials</i> , 2013 , 38, 73-78	3.5	27
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