

Wang-Yu Hu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1156778/wang-yu-hu-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

388
papers

6,195
citations

39
h-index

58
g-index

402
ext. papers

7,281
ext. citations

3.6
avg, IF

6.08
L-index

| # | Paper | IF | Citations |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 388 | Solidification of Undercooled Liquid under Supergravity Field by Phase-Field Crystal Approach. <i>Metals</i> , 2022 , 12, 232 | 2.3 | 0 |
| 387 | Molecular dynamic simulations of plasticity and phase transition in Mg polycrystalline under shock compression. <i>Applied Physics Express</i> , 2022 , 15, 015503 | 2.4 | 2 |
| 386 | Critical structural invariant during high-pressure solidification of copper. <i>MRS Communications</i> , 2022 , 12, 45 | 2.7 | 0 |
| 385 | Effect of Vacancies on Dynamic Response and Spallation in Single-Crystal Magnesium by Molecular Dynamic Simulation. <i>Metals</i> , 2022 , 12, 215 | 2.3 | |
| 384 | Synergistic Effects of Crystal Phase and Strain for N Dissociation on Ru(0001) Surfaces with Multilayered Hexagonal Close-Packed Structures.. <i>ACS Omega</i> , 2022 , 7, 4492-4500 | 3.9 | 1 |
| 383 | Two-dimensional chromium phosphorus monolayer based gas sensors to detect NOx: A first-principles study. <i>Results in Physics</i> , 2022 , 32, 105100 | 3.7 | 0 |
| 382 | Effect of nanopores on plasticity and their collapse mechanism in magnesium single crystal under shock loading. <i>Journal of Applied Physics</i> , 2022 , 131, 055903 | 2.5 | 1 |
| 381 | Molecular dynamic simulations of displacement cascades in tungsten and tungsten-rhenium alloys: Effects of grain boundary and/or γ phase. <i>Journal of Nuclear Materials</i> , 2022 , 561, 153543 | 3.3 | 1 |
| 380 | Influence of orientation on crack propagation of aluminum by molecular dynamics. <i>European Physical Journal B</i> , 2022 , 95, 1 | 1.2 | |
| 379 | Crystallographic-orientation-dependence plasticity of niobium under shock compressions. <i>International Journal of Plasticity</i> , 2022 , 150, 103195 | 7.6 | 0 |
| 378 | The mechanism of plasticity and phase transition in iron single crystals under cylindrically divergent shock loading. <i>International Journal of Mechanical Sciences</i> , 2022 , 217, 107032 | 5.5 | 1 |
| 377 | A host-guest self-assembly strategy to enhance electron densities in ultrathin porous carbon nitride nanocages toward highly efficient hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022 , 430, 132880 | 14.7 | 7 |
| 376 | Atomistic simulation on the generation of defects in Cu/SiC composites during cooling. <i>Journal of Materials Science and Technology</i> , 2022 , 123, 1-12 | 9.1 | 0 |
| 375 | Pt-based intermetallic compounds with tunable activity and selectivity toward hydrogen production from formic acid. <i>Applied Surface Science</i> , 2022 , 153530 | 6.7 | 1 |
| 374 | Effects of Point Defects on the Stable Occupation, Diffusion and Nucleation of Xe and Kr in UO ₂ . <i>Metals</i> , 2022 , 12, 789 | 2.3 | 1 |
| 373 | Orientation dependence of shock-induced change of habit plane for the $1/2\langle 111 \rangle$ dislocation loop and plasticity in tungsten. <i>International Journal of Plasticity</i> , 2022 , 155, 103329 | 7.6 | 0 |
| 372 | Effect of crystallographic orientations on shock-induced plasticity for CoCrFeMnNi high-entropy alloy. <i>International Journal of Mechanical Sciences</i> , 2022 , 107373 | 5.5 | 1 |

| | | | |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 371 | The Role of Grain Boundaries in the Corrosion Process of Fe Surface: Insights from ReaxFF Molecular Dynamic Simulations. <i>Metals</i> , 2022 , 12, 876 | 2.3 | 1 |
| 370 | Shock-induced plasticity and phase transformation in single crystal magnesium: An interatomic potential and non-equilibrium molecular dynamics simulations.. <i>Journal of Physics Condensed Matter</i> , 2021 , | 1.8 | 3 |
| 369 | Dipole Engineering of Two-Dimensional van der Waals Heterostructures for Enhanced Power-Conversion Efficiency: The Case of Janus Ga ₂ SeTe/InS. <i>Physical Review Applied</i> , 2021 , 16, | 4.3 | 5 |
| 368 | Study on the effect of non-centrosymmetric orientation in shocked and ramp compressed Iron. <i>Materials Today Communications</i> , 2021 , 29, 102893 | 2.5 | |
| 367 | Highly effective Ru-based Heusler alloy catalysts for N ₂ activation: A theoretical study. <i>Applied Surface Science</i> , 2021 , 151658 | 6.7 | 1 |
| 366 | The interactions between nitrogen oxides and Uranium surface. <i>Nuclear Materials and Energy</i> , 2021 , 26, 100945 | 2.1 | |
| 365 | High-Throughput One-Photon Excitation Pathway in 0D/3D Heterojunctions for Visible-Light Driven Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2021 , 31, 2100816 | 15.6 | 40 |
| 364 | Effects of Se substitution on the Schottky barrier of a MoS ₂ /graphene heterostructure. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 265302 | 3 | 2 |
| 363 | One-Photon Excitation Pathway: High-Throughput One-Photon Excitation Pathway in 0D/3D Heterojunctions for Visible-Light Driven Hydrogen Evolution (Adv. Funct. Mater. 18/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170125 | 15.6 | |
| 362 | Energetics and diffusional properties of helium in W-Ta systems studied by a new ternary potential. <i>Journal of Nuclear Materials</i> , 2021 , 549, 152913 | 3.3 | 1 |
| 361 | First-principles study on the dissolution and diffusion behavior of hydrogen in carbide precipitates. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 22030-22039 | 6.7 | 2 |
| 360 | Atomistic insights into interactions between oxygen and Al (101-1) surface. <i>Nuclear Materials and Energy</i> , 2021 , 27, 100974 | 2.1 | |
| 359 | Molecular dynamics simulation of shock wave propagation and spall failure in single crystal copper under cylindrical impact. <i>Applied Physics Express</i> , 2021 , 14, 075504 | 2.4 | 2 |
| 358 | Predicted Polymeric and Layered Covalent Networks in Transition Metal Pentazolate M(cyclo-N ₅) _x Phases at Ambient and High Pressure: Up to 20 Nitrogen Atoms per Metal. <i>Chemistry of Materials</i> , 2021 , 33, 5298-5307 | 9.6 | 0 |
| 357 | 2D Amorphous CoO Incorporated g-C ₃ N ₄ Nanotubes for Improved Photocatalytic Performance. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100254 | 2.5 | 2 |
| 356 | Unsaturated coordination polymer frameworks as multifunctional sulfur reservoir for fast and durable lithium-sulfur batteries. <i>Nano Energy</i> , 2021 , 79, 105393 | 17.1 | 22 |
| 355 | A two-dimensional MoS ₂ /SnS heterostructure for promising photocatalytic performance: First-principles investigations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 126, 114453 | 3 | 3 |
| 354 | Assessing Atomic-Phase Transitions and Ion Transport in Layered Na _x NiO ₂ (x [0.67]) Cathode Materials. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 4930-4937 | 3.8 | |

| | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 353 | Strain and interfacial engineering to accelerate hydrogen evolution reaction of two-dimensional phosphorus carbide*. <i>Chinese Physics B</i> , 2021 , 30, 027101 | 1.2 | 0 |
| 352 | Effects of vacancies on plasticity and phase transformation in single-crystal iron under shock loading. <i>Journal of Applied Physics</i> , 2021 , 130, 015107 | 2.5 | 1 |
| 351 | High-throughput computational design for 2D van der Waals functional heterostructures: Fragility of Anderson's rule and beyond. <i>Applied Physics Letters</i> , 2021 , 119, 043102 | 3.4 | 10 |
| 350 | Unraveling TM Migration Mechanisms in LiNiMnCoO by Modeling and Experimental Studies. <i>Nano Letters</i> , 2021 , 21, 6875-6881 | 11.5 | 6 |
| 349 | Effects of electric field and strain on the Schottky barrier of the bilayer van der Waals heterostructures of graphene and pure/hydrogenated PC3 monolayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 133, 114785 | 3 | 0 |
| 348 | Molecular dynamics simulation of the behavior of typical radiation defects under stress gradient field in tungsten. <i>Journal of Applied Physics</i> , 2021 , 130, 125103 | 2.5 | 0 |
| 347 | Monolayer PtTe ₂ : A promising candidate for NO ₂ sensor with ultrahigh sensitivity and selectivity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 134, 114925 | 3 | 2 |
| 346 | Effect of transition metal atoms on the stacking fault energy and ductility of TiC. <i>Ceramics International</i> , 2021 , 47, 29386-29391 | 5.1 | 1 |
| 345 | Atomistic simulation of the surface configuration of the NiBe cluster. <i>Thin Solid Films</i> , 2021 , 737, 138938 | 2.2 | 0 |
| 344 | Molecular dynamics simulation of primary radiation damage in W-Ta alloys: Effect of tantalum. <i>Journal of Nuclear Materials</i> , 2021 , 556, 153162 | 3.3 | 3 |
| 343 | Finnis-Binclair-type potential for atomistic simulation of defects behaviour in V-Ti-Ta ternary system. <i>Journal of Nuclear Materials</i> , 2021 , 557, 153231 | 3.3 | 1 |
| 342 | Generalized Synthetic Strategy for Amorphous Transition Metal Oxides-Based 2D Heterojunctions with Superb Photocatalytic Hydrogen and Oxygen Evolution. <i>Advanced Functional Materials</i> , 2021 , 31, 2009230 | 15.6 | 45 |
| 341 | Chemistry of Defects in Crystalline Na ₂ Se: Implications for the NaBe Battery. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27930-27936 | 3.8 | 3 |
| 340 | Effect of symmetrical tilt grain boundary on the compatibility between copper and liquid lithium: Atomistic simulations. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155212 | 5.7 | 0 |
| 339 | Ultra-thin tubular graphitic carbon Nitride-Carbon Dot lateral heterostructures: One-Step synthesis and highly efficient catalytic hydrogen generation. <i>Chemical Engineering Journal</i> , 2020 , 397, 125470 | 14.7 | 38 |
| 338 | Molecular dynamics simulation of cylindrically converging shock response in single crystal Cu. <i>Computational Materials Science</i> , 2020 , 183, 109845 | 3.2 | 4 |
| 337 | Molecular dynamics simulations of the diffusion characteristics on the Fe-W interfaces system. <i>Fusion Engineering and Design</i> , 2020 , 159, 111850 | 1.7 | 3 |
| 336 | Dynamic self-diffusion behaviors of nickel adatoms on clusters with Wulff shape. <i>International Journal of Modern Physics B</i> , 2020 , 34, 2050015 | 1.1 | 1 |

| | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 335 | Enhanced radiation tolerance of the Ni-Co-Cr-Fe high-entropy alloy as revealed from primary damage. <i>Acta Materialia</i> , 2020 , 196, 133-143 | 8.4 | 45 |
| 334 | Structural damage and phase stability of Al _{0.3} CoCrFeNi high entropy alloy under high temperature ion irradiation. <i>Acta Materialia</i> , 2020 , 188, 1-15 | 8.4 | 42 |
| 333 | Carbide effects on tensile deformation behavior of [001] symmetric tilt grain boundaries in bcc Fe. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2020 , 28, 035006 | 2 | 1 |
| 332 | Hierarchical Self-assembly of Well-Defined Louver-Like P-Doped Carbon Nitride Nanowire Arrays with Highly Efficient Hydrogen Evolution. <i>Nano-Micro Letters</i> , 2020 , 12, 52 | 19.5 | 24 |
| 331 | A comparative atomic simulation study of the configurations in M-Al (M = Mg, Ni, and Fe) nanoalloys: influence of alloying ability, surface energy, atomic radius, and atomic arrangement. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1 | 2.3 | 2 |
| 330 | Molecular dynamics simulations of radiation damage generation and dislocation loop evolution in Ni and binary Ni-based alloys. <i>Computational Materials Science</i> , 2020 , 177, 109555 | 3.2 | 5 |
| 329 | From monolayer to lateral heterostructure of functionalized phosphorus carbide: Evolution of electronic properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 118, 113962 | 3 | 4 |
| 328 | Double-Layer Honeycomb AlP: A Promising Anode Material for Li-, Na-, and K-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 2978-2986 | 3.8 | 5 |
| 327 | A design rule for two-dimensional van der Waals heterostructures with unconventional band alignments. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 3037-3047 | 3.6 | 12 |
| 326 | Interatomic potentials of W _N and W _{Mo} binary systems for point defects studies. <i>Journal of Nuclear Materials</i> , 2020 , 531, 152020 | 3.3 | 5 |
| 325 | Atomic simulation of mechanical properties of irradiated iron. <i>International Journal of Modern Physics C</i> , 2020 , 31, 2050027 | 1.1 | 1 |
| 324 | Evaluation of tungsten interatomic potentials for radiation damage simulations. <i>Tungsten</i> , 2020 , 2, 3-14 | 4.6 | 3 |
| 323 | Strain and Electric Field Controllable Schottky Barriers and Contact Types in Graphene-MoTe van der Waals Heterostructure. <i>Nanoscale Research Letters</i> , 2020 , 15, 180 | 5 | 10 |
| 322 | Interaction between impurity elements (C, N and O) and hydrogen in hcp-Zr: a first-principles study. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2020 , 28, 085007 | 2 | |
| 321 | Comparative investigation of microjetting from tin surface subjected to laser and plane impact loadings via molecular dynamics simulations. <i>Mechanics of Materials</i> , 2020 , 148, 103479 | 3.3 | 1 |
| 320 | Molecular dynamics simulation of the interactions between screw dislocation and stacking fault tetrahedron in Fe ₁₀ Ni ₂₀ Cr and Ni. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2020 , 28, 075002 | 2 | 2 |
| 319 | In situ construction of hierarchical graphitic carbon nitride homojunction as robust bifunctional photoelectrocatalyst for overall water splitting. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 758-769 | 3.5 | 5 |
| 318 | Interfacial charge modulation: carbon quantum dot implanted carbon nitride double-deck nanoframes for robust visible-light photocatalytic tetracycline degradation. <i>Nanoscale</i> , 2020 , 12, 3135-3145 | 7.75 | 24 |

| | | | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 317 | Ultrahigh Sensitivity and Selectivity of Pentagonal SiC ₂ Monolayer Gas Sensors: The Synergistic Effect of Composition and Structural Topology. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900445 | 1.3 | 3 |
| 316 | Atomistic simulations of the interaction between transmutation-produced Re and grain boundaries in tungsten. <i>Computational Materials Science</i> , 2020 , 173, 109412 | 3.2 | 4 |
| 315 | Algorithm for generating irreducible site-occupancy configurations. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 1 |
| 314 | Interatomic potentials and defect properties of Fe _{1-x} Al alloys. <i>Journal of Nuclear Materials</i> , 2020 , 541, 152421 | 3.3 | 6 |
| 313 | The phase transition of rapidly super-cooled Tungsten under 100 GPa. <i>Chemical Physics Letters</i> , 2020 , 755, 137789 | 2.5 | 1 |
| 312 | Molecular dynamics simulation of the diffusion of self-interstitial atoms and interstitial loops under temperature gradient field in tungsten. <i>Journal of Applied Physics</i> , 2020 , 128, 065103 | 2.5 | 4 |
| 311 | Molecular dynamics simulations of shock loading of nearly fully dense granular Ni-Al composites. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 20252-20261 | 3.6 | 3 |
| 310 | Assessment of van der Waals inclusive density functional theory methods for adsorption and selective dehydrogenation of formic acid on Pt(111) surface. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 21049-21056 | 3.6 | 15 |
| 309 | Influence of Irradiation on Mechanical Properties of Nickel. <i>Advances in Materials Science and Engineering</i> , 2019 , 2019, 1-6 | 1.5 | |
| 308 | Precipitate/vanadium interface and its strengthening on the vanadium alloys: A first-principles study. <i>Journal of Nuclear Materials</i> , 2019 , 527, 151821 | 3.3 | 7 |
| 307 | Molecular dynamics simulations of high-energy radiation damage in W and WBe alloys. <i>Journal of Nuclear Materials</i> , 2019 , 524, 9-20 | 3.3 | 12 |
| 306 | Chlorine doped graphitic carbon nitride nanorings as an efficient photoresponsive catalyst for water oxidation and organic decomposition. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2288-2296 | 9.1 | 40 |
| 305 | Tunable Schottky barrier in van der Waals heterostructures of graphene and hydrogenated phosphorus carbide monolayer: first-principles calculations. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 305104 | 3 | 10 |
| 304 | The interactions between rhenium and interstitial-type defects in bulk tungsten: A combined study by molecular dynamics and molecular statics simulations. <i>Journal of Nuclear Materials</i> , 2019 , 522, 200-213 | 3.3 | 16 |
| 303 | Doping-induced enhancement of crystallinity in polymeric carbon nitride nanosheets to improve their visible-light photocatalytic activity. <i>Nanoscale</i> , 2019 , 11, 6876-6885 | 7.7 | 93 |
| 302 | Doping-Induced Hydrogen-Bond Engineering in Polymeric Carbon Nitride To Significantly Boost the Photocatalytic H Evolution Performance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17341-17349 | 9.5 | 46 |
| 301 | Understanding the release of helium atoms from nanochannel tungsten: a molecular dynamics simulation. <i>Nuclear Fusion</i> , 2019 , 59, 076020 | 3.3 | 7 |
| 300 | Effect of MCl ₃ (M=La, U or Sc) component on the local structures and transport properties of LiCl ₂ /MCl ₃ eutectic: A molecular dynamics study. <i>Electrochimica Acta</i> , 2019 , 306, 366-376 | 6.7 | 8 |

| | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 299 | Development of a NiMo interatomic potential for irradiation simulation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 045009 | 2 | 4 |
| 298 | Development of the interatomic potentials for W-Ta system. <i>Computational Materials Science</i> , 2019 , 163, 91-99 | 3.2 | 10 |
| 297 | Protonated supramolecular complex-induced porous graphitic carbon nitride nanosheets as bifunctional catalyst for water oxidation and organic pollutant degradation. <i>Journal of Materials Science</i> , 2019 , 54, 7637-7650 | 4.3 | 9 |
| 296 | Intrinsic strain-induced segregation in multiply twinned Cu-Pt icosahedra. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 4802-4809 | 3.6 | 6 |
| 295 | Atomistic insights into the reaction mechanism of nanostructured LiI: Implications for rechargeable Li-I2 batteries. <i>Energy Storage Materials</i> , 2019 , 17, 211-219 | 19.4 | 7 |
| 294 | Clustering and dislocation loop punching induced by different noble gas bubbles in tungsten: a molecular dynamics study. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 084002 | 2 | 0 |
| 293 | Theoretical insights into nitrogen fixation on Ti2C and Ti2CO2 in a lithium-nitrogen battery. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19950-19960 | 13 | 10 |
| 292 | Interactions of plasticity and phase transformation under shock in iron bicrystals. <i>Journal of Applied Physics</i> , 2019 , 126, 045901 | 2.5 | 4 |
| 291 | Strategy to boost catalytic activity of polymeric carbon nitride: synergistic effect of controllable in situ surface engineering and morphology. <i>Nanoscale</i> , 2019 , 11, 16393-16405 | 7.7 | 33 |
| 290 | Monolayer Phosphorene-Carbon Nanotube Heterostructures for Photocatalysis: Analysis by Density Functional Theory. <i>Nanoscale Research Letters</i> , 2019 , 14, 233 | 5 | 3 |
| 289 | Steering charge kinetics boost the photocatalytic activity of graphitic carbon nitride: heteroatom-mediated spatial charge separation and transfer. <i>Journal Physics D: Applied Physics</i> , 2019 , 53, 015502 | 3 | 23 |
| 288 | Effect of particle packing and density on shock response in ordered arrays of Ni + Al nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7272-7280 | 3.6 | 7 |
| 287 | Shock-induced migration of asymmetry tilt grain boundary in iron bicrystal: A case study of Σ [110]. <i>Chinese Physics B</i> , 2019 , 28, 126201 | 1.2 | 1 |
| 286 | Electrostatic Potential Anomaly in 2D Janus Transition Metal Dichalcogenides. <i>Annalen Der Physik</i> , 2019 , 531, 1900369 | 2.6 | 8 |
| 285 | Penta-Graphene as a Potential Gas Sensor for NO Detection. <i>Nanoscale Research Letters</i> , 2019 , 14, 306 | 5 | 28 |
| 284 | Two-Dimensional GaX/SnS2 (X = S, Se) van der Waals Heterostructures for Photovoltaic Application: Heteroatom Doping Strategy to Boost Power Conversion Efficiency. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800565 | 2.5 | 27 |
| 283 | Atomistic studies of shock-induced plasticity and phase transition in iron-based single crystal with edge dislocation. <i>International Journal of Plasticity</i> , 2019 , 114, 215-226 | 7.6 | 24 |
| 282 | Revealing the Reaction Mechanism of Sodium Selenide Confined within a Single-Walled Carbon Nanotube: Implications for Na-Se Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4995-5002 | 9.5 | 19 |

| | | | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 281 | Isotype heterojunction g-C3N4/g-C3N4 nanosheets as 2D support to highly dispersed 0D metal oxide nanoparticles: Generalized self-assembly and its high photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 025501 | 3 | 36 |
| 280 | The effect of Mo addition on structure and glass forming ability of Ni-Zr alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 1184-1198 | 5.7 | 17 |
| 279 | Molecular dynamics simulation of alloying during sintering of Li and Pb metallic nanoparticles. <i>Computational Materials Science</i> , 2019 , 156, 47-55 | 3.2 | 17 |
| 278 | Insights Into Interfacial Interaction and Its Influence on the Electronic and Optical Properties of Two-Dimensional WS ₂ /TX ₂ CO ₂ (TX = Ti, Zr) van der Waals Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800377 | 1.3 | 1 |
| 277 | Effect of temperature on the corrosion behaviors of 304 stainless steel in static liquid lithium. <i>Fusion Engineering and Design</i> , 2018 , 128, 75-81 | 1.7 | 13 |
| 276 | Self-assembled hierarchical carbon/g-C3N4 composite with high photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 135501 | 3 | 9 |
| 275 | Evolution of helium bubbles below different tungsten surfaces under neutron irradiation and non-irradiation conditions. <i>Computational Materials Science</i> , 2018 , 148, 242-248 | 3.2 | 11 |
| 274 | Interfacial Interaction between Boron Cluster and Metal Oxide Surface and Its Effects: A Case Study of B ₂₀ /Ag ₃ PO ₄ van der Waals Heterostructure. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6151-6158 | 3.8 | 7 |
| 273 | Wetting characteristics of lithium droplet on iron surfaces in atomic scale: A molecular dynamics simulation. <i>Computational Materials Science</i> , 2018 , 149, 435-441 | 3.2 | 2 |
| 272 | Revealing reaction mechanisms of nanoconfined LiS: implications for lithium-sulfur batteries. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11713-11721 | 3.6 | 18 |
| 271 | New interatomic potentials of W, Re and W-Re alloy for radiation defects. <i>Journal of Nuclear Materials</i> , 2018 , 502, 141-153 | 3.3 | 35 |
| 270 | Effect of grain boundaries on shock-induced phase transformation in iron bicrystals. <i>Journal of Applied Physics</i> , 2018 , 123, 045105 | 2.5 | 19 |
| 269 | A first-principles investigation of the ScO ₂ monolayer as the cathode material for alkali metal-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3171-3180 | 13 | 15 |
| 268 | Oxygen adsorption and diffusion on $\overline{111}$ surface: Effect of titanium. <i>Computational Materials Science</i> , 2018 , 144, 85-91 | 3.2 | 6 |
| 267 | An ab initio study for probing iodization reactions on metallic anode surfaces of LiI ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7807-7814 | 13 | 6 |
| 266 | Molecular dynamics simulations of the characteristics of Mo/Ti interfaces. <i>Computational Materials Science</i> , 2018 , 141, 293-301 | 3.2 | 16 |
| 265 | In-situ construction of 2D direct Z-scheme g-C3N4/g-C3N4 homojunction with high photocatalytic activity. <i>Journal of Materials Science</i> , 2018 , 53, 15882-15894 | 4.3 | 33 |
| 264 | Substrate-induced magnetism and topological phase transition in silicene. <i>Nanoscale</i> , 2018 , 10, 14667-14677 | 4.7 | 9 |

| | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 263 | Simultaneous dispersive and covalent monolayer MoS ₂ /TiO ₂ cluster heterostructures: Insights into their enhanced photocatalytic activity. <i>Superlattices and Microstructures</i> , 2018 , 121, 64-74 | 2.8 | |
| 262 | Compatibility of Molybdenum, Tungsten, and 304 Stainless Steel in Static Liquid Lithium Under High Vacuum. <i>Plasma Physics Reports</i> , 2018 , 44, 671-677 | 1.2 | 3 |
| 261 | Theoretical prediction of LiScO nanosheets as a cathode material for Li-O batteries. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22351-22358 | 3.6 | 6 |
| 260 | Effect of neon on the hydrogen behaviors in tungsten: A first-principles study. <i>Journal of Nuclear Materials</i> , 2018 , 510, 492-498 | 3.3 | 2 |
| 259 | Surface segregation and alloying of immiscible Li-Cu and miscible Li-Pb nanoalloys investigated by basin-hopping Monte Carlo method. <i>Computational Materials Science</i> , 2018 , 154, 371-379 | 3.2 | 4 |
| 258 | Modified analytic embedded atom method potential for chromium. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018 , 26, 065001 | 2 | 2 |
| 257 | Local identification of chemical ordering: Extension, implementation, and application of the common neighbor analysis for binary systems. <i>Computational Materials Science</i> , 2018 , 143, 195-205 | 3.2 | 3 |
| 256 | Interfacial Interactions in Monolayer and Few-Layer SnS/CH ₃ NH ₂ PbI ₃ Perovskite van der Waals Heterostructures and Their Effects on Electronic and Optical Properties. <i>ChemPhysChem</i> , 2018 , 19, 291-299 | 3.3 | 12 |
| 255 | Investigation of the interstitial oxygen behaviors in vanadium alloy: A first-principles study. <i>Current Applied Physics</i> , 2018 , 18, 183-190 | 2.6 | 11 |
| 254 | Does the Mg ₂ B Battery Suffer Severe Shuttle Effect?. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28518-28527 | 3.5 | 3 |
| 253 | Theory-Driven Heterojunction Photocatalyst Design with Continuously Adjustable Band Gap Materials. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28065-28074 | 3.8 | 17 |
| 252 | Atomic scale analysis of the corrosion characteristics of Cu-Li solid-liquid interfaces. <i>Journal of Alloys and Compounds</i> , 2018 , 763, 1-10 | 5.7 | 5 |
| 251 | Facile in situ construction of mediator-free direct Z-scheme g-C ₃ N ₄ /CeO ₂ heterojunctions with highly efficient photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 275302 | 3 | 80 |
| 250 | The effect of solutes on the precipitate/matrix interface properties in the Vanadium alloys: A first-principles study. <i>Computational Materials Science</i> , 2018 , 153, 113-118 | 3.2 | 3 |
| 249 | Dispersive and covalent interactions in all-carbon heterostructures consisting of penta-graphene and fullerene: topological effect. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 305301 | 3 | 10 |
| 248 | Molecular dynamics simulation of wetting behaviors of Li on W surfaces. <i>Fusion Engineering and Design</i> , 2017 , 117, 188-193 | 1.7 | 8 |
| 247 | The effects of interstitial impurities on the mechanical properties of vanadium alloys: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2017 , 701, 975-980 | 5.7 | 11 |
| 246 | Simultaneous covalent and noncovalent carbon nanotube/AgPO hybrids: new insights into the origin of enhanced visible light photocatalytic performance. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7955-7963 | 3.6 | 11 |

| | | | |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 245 | Construction of g-C ₃ N ₄ /CeO ₂ /ZnO ternary photocatalysts with enhanced photocatalytic performance. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 106, 1-9 | 3.9 | 83 |
| 244 | Hybrid TiO ₂ /graphene derivatives nanocomposites: is functionalized graphene better than pristine graphene for enhanced photocatalytic activity?. <i>Catalysis Science and Technology</i> , 2017 , 7, 1423-1432 | 5.5 | 17 |
| 243 | Atomic simulations for configurations and solid-liquid interface of Li-Fe and Li-Cu icosahedra. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1 | 2.3 | 3 |
| 242 | A molecular dynamics study of the transport properties of LiF-BeF ₂ -ThF ₄ molten salt. <i>Journal of Molecular Liquids</i> , 2017 , 234, 220-226 | 6 | 7 |
| 241 | Atomistic simulation of crack propagation in single crystal tungsten under cyclic loading. <i>Journal of Materials Research</i> , 2017 , 32, 1474-1483 | 2.5 | 6 |
| 240 | Atomistic simulations of solidification process in B ₂ -LiPb solid(0 0 1)-liquid system. <i>Journal of Crystal Growth</i> , 2017 , 470, 113-121 | 1.6 | 3 |
| 239 | Molecular dynamics simulations of the structure evolutions of Cu-Zr metallic glasses under irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 393, 77-81 | 1.2 | 7 |
| 238 | Investigation of the shock-induced chemical reaction (SICR) in Ni + Al nanoparticle mixtures. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 17607-17617 | 3.6 | 14 |
| 237 | Non-equilibrium molecular dynamics simulations of the spallation in Ni: Effect of vacancies. <i>Computational Materials Science</i> , 2017 , 137, 273-281 | 3.2 | 12 |
| 236 | Two-Dimensional MoS ₂ -Graphene-Based Multilayer van der Waals Heterostructures: Enhanced Charge Transfer and Optical Absorption, and Electric-Field Tunable Dirac Point and Band Gap. <i>Chemistry of Materials</i> , 2017 , 29, 5504-5512 | 9.6 | 99 |
| 235 | First-principles study of the adsorption properties of atoms and molecules on UN ₂ (001) surface. <i>Journal of Nuclear Materials</i> , 2017 , 493, 124-131 | 3.3 | 1 |
| 234 | Temperature effects on growth configurations for Al-Mg bimetallic nanoparticles. <i>Thin Solid Films</i> , 2017 , 626, 178-183 | 2.2 | 2 |
| 233 | Interfacial interaction in monolayer transition metal dichalcogenide/metal oxide heterostructures and its effects on electronic and optical properties: The case of MX ₂ /CeO ₂ . <i>Applied Physics Express</i> , 2017 , 10, 011201 | 2.4 | 9 |
| 232 | Simulation of radiation damages in molybdenum by combining molecular dynamics and OKMC. <i>Nuclear Science and Techniques/Hewuli</i> , 2017 , 28, 1 | 2.1 | 3 |
| 231 | Role of electrodes materials in determining the interfacial and magnetoelectric properties in BaTiO ₃ -based multiferroic tunnel junctions. <i>European Physical Journal B</i> , 2017 , 90, 1 | 1.2 | 14 |
| 230 | Composition and Size Dependence of Alloying in Ni ₃ Al Nanoparticles With Icosahedral and Rhombohedral Configurations: An Atomic Simulation Study. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700168 | 1.3 | |
| 229 | Noncovalent Functionalization of Monolayer MoS ₂ with Carbon Nanotubes: Tuning Electronic Structure and Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21921-21929 | 3.8 | 19 |
| 228 | The mechanism of enhanced photocatalytic activity of SnO ₂ through fullerene modification. <i>Current Applied Physics</i> , 2017 , 17, 1547-1556 | 2.6 | 11 |

| | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 227 | Diffusion of Al dimers on the surface of Mg clusters. <i>European Physical Journal B</i> , 2017 , 90, 1 | 1.2 | 1 |
| 226 | Phase transition of iron-based single crystals under ramp compressions with extreme strain rates. <i>International Journal of Plasticity</i> , 2017 , 96, 56-80 | 7.6 | 19 |
| 225 | Molecular dynamics simulation of diffusion and viscosity of liquid lithium fluoride. <i>Computational Materials Science</i> , 2016 , 111, 203-208 | 3.2 | 17 |
| 224 | Dual functions of 2D WS ₂ and MoS ₂ /WS ₂ monolayers coupled with a Ag ₃ PO ₄ photocatalyst. <i>Semiconductor Science and Technology</i> , 2016 , 31, 095013 | 1.8 | 5 |
| 223 | Clustering of Fe atoms in liquid Li and its effect on the viscosity of liquid Li. <i>Nuclear Fusion</i> , 2016 , 56, 046004 | 3.3 | 5 |
| 222 | A new embedded-atom method approach based on the pth moment approximation. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 505201 | 1.8 | 1 |
| 221 | Irradiation damage of helium-accumulated vanadium: atomic simulations. <i>RSC Advances</i> , 2016 , 6, 80939-80945 | 3.7 | 2 |
| 220 | Orientation dependences of the Fe-Li solid-liquid interface properties: Atomistic simulations. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 875-884 | 5.7 | 11 |
| 219 | Atomistic studies of shock-induced phase transformations in single crystal iron with cylindrical nanopores. <i>Computational Materials Science</i> , 2016 , 122, 1-10 | 3.2 | 16 |
| 218 | Interfacial structure, ferroelectric stability, and magnetoelectric effect of magnetoelectric junction FeCo/BaTiO ₃ /FeCo with alloy electrode. <i>Journal of Materials Science</i> , 2016 , 51, 3297-3302 | 4.3 | 1 |
| 217 | Enhanced photocatalytic performance of an Ag ₃ PO ₄ photocatalyst via fullerene modification: first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2878-86 | 3.6 | 22 |
| 216 | First-principles study of the origin of magnetism induced by intrinsic defects in monolayer MoS ₂ . <i>Applied Surface Science</i> , 2016 , 361, 199-205 | 6.7 | 52 |
| 215 | The energy and stability of helium-related cluster in nickel: A study of molecular dynamics simulation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 368, 75-80 | 1.2 | 7 |
| 214 | Development of a pair potential for NiFe. <i>Journal of Nuclear Materials</i> , 2016 , 472, 105-109 | 3.3 | 9 |
| 213 | Atomic simulation of helium trapping in displacement cascades. <i>RSC Advances</i> , 2016 , 6, 27113-27118 | 3.7 | 5 |
| 212 | First-principles study of the binding preferences and diffusion behaviors of solutes in vanadium alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 660, 55-61 | 5.7 | 25 |
| 211 | The flow behavior of liquid Li in Cu micro-channels. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2016 , 65, 104705 | 0.6 | |
| 210 | Nucleation and solid-liquid interfacial energy of Li nanoparticles: A molecular dynamics study. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 1941-1946 | 1.3 | 3 |

| | | | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 209 | Tensile mechanical properties of Ni-based superalloy of nanophases using molecular dynamics simulation. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 726-732 | 1.3 | 12 |
| 208 | Dual role of monolayer MoS ₂ in enhanced photocatalytic performance of hybrid MoS ₂ /SnO ₂ nanocomposite. <i>Journal of Applied Physics</i> , 2016 , 119, 205704 | 2.5 | 49 |
| 207 | Tunable synthesis of various ZnO architectural structures with enhanced photocatalytic activities. <i>Materials Letters</i> , 2016 , 175, 68-71 | 3.3 | 22 |
| 206 | MD and OKMC simulations of the displacement cascades in nickel. <i>Nuclear Science and Techniques/Hewuli</i> , 2016 , 27, 1 | 2.1 | 1 |
| 205 | Electronic properties and photoactivity of monolayer MoS ₂ /fullerene van der Waals heterostructures. <i>RSC Advances</i> , 2016 , 6, 43228-43236 | 3.7 | 26 |
| 204 | Atomistic simulation of mechanical properties and crack propagation of irradiated nickel. <i>Computational Materials Science</i> , 2016 , 120, 21-28 | 3.2 | 6 |
| 203 | The wetting properties of Li droplet on Cu surfaces: A molecular dynamics study. <i>Computational Materials Science</i> , 2016 , 119, 114-119 | 3.2 | 12 |
| 202 | Mechanism of enhanced photocatalytic activities on tungsten trioxide doped with sulfur: Dopant-type effects. <i>Modern Physics Letters B</i> , 2016 , 30, 1650340 | 1.6 | 2 |
| 201 | Non-covalent functionalization of WS ₂ monolayer with small fullerenes: tuning electronic properties and photoactivity. <i>Dalton Transactions</i> , 2016 , 45, 13383-91 | 4.3 | 20 |
| 200 | Study of the corrosion behaviors of 304 austenite stainless steel specimens exposed to static liquid lithium at 600 K. <i>Journal of Nuclear Materials</i> , 2016 , 480, 25-31 | 3.3 | 11 |
| 199 | Monte Carlo simulations of strain-driven elemental depletion or enrichment in Cu ₉₅ Al ₅ and Cu ₉₀ Al ₁₀ alloys. <i>Computational Materials Science</i> , 2015 , 106, 123-128 | 3.2 | 1 |
| 198 | Diffusion mechanisms at the Pb solid-liquid interface: Atomic level point of view. <i>Chemical Physics Letters</i> , 2015 , 634, 108-112 | 2.5 | 2 |
| 197 | New interatomic potentials for studying the behavior of noble gas atoms in tungsten. <i>Journal of Nuclear Materials</i> , 2015 , 467, 398-405 | 3.3 | 13 |
| 196 | A molecular dynamics study of helium diffusion and clustering in fcc nickel. <i>Computational Materials Science</i> , 2015 , 107, 54-57 | 3.2 | 15 |
| 195 | First-principles study of electronic and magnetic properties in Co doped BaTiO ₃ . <i>European Physical Journal B</i> , 2015 , 88, 1 | 1.2 | 41 |
| 194 | Chemical Ordering and Surface Segregation in CuPt Nanoalloys: The Synergetic Roles in the Formation of Multishell Structures. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21515-21527 | 3.8 | 25 |
| 193 | Determination of thermodynamic and thermo-elastic properties for ductile B2-DyCu intermetallics using molecular dynamics simulations. <i>Physica B: Condensed Matter</i> , 2015 , 459, 69-73 | 2.8 | 3 |
| 192 | Diffusion and growth of aluminum adatoms on magnesium clusters with hexahedral structure. <i>Physica B: Condensed Matter</i> , 2015 , 458, 144-148 | 2.8 | 8 |

| | | | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 191 | Atomic simulation of fatigue crack propagation in Ni ₃ Al. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 118, 1399-1406 | 2.6 | 12 |
| 190 | Stability and diffusion properties of Ti atom on Uranium surfaces: A first-principles study. <i>Computational Materials Science</i> , 2015 , 97, 201-208 | 3.2 | 2 |
| 189 | Influence of solid-liquid interface on the thermal stability of LiBe nanoalloy with rhombohedral structure: A molecular dynamics study. <i>Thin Solid Films</i> , 2015 , 593, 137-143 | 2.2 | 8 |
| 188 | The anisotropic character of Snoek relaxation in Fe-C system: A kinetic Monte Carlo and molecular dynamics simulation. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 1382-1387 | 1.3 | 3 |
| 187 | Coupling between plasticity and phase transition of polycrystalline iron under shock compressions. <i>International Journal of Plasticity</i> , 2015 , 71, 218-236 | 7.6 | 38 |
| 186 | The alloying processes in solid-solid and liquid-solid LiPb interfaces with atomistic simulations. <i>Journal of Alloys and Compounds</i> , 2015 , 632, 467-472 | 5.7 | 5 |
| 185 | ANISOTROPY DIFFUSION DYNAMICS BEHAVIORS ON Pd(110) SURFACES: A MOLECULAR DYNAMICS STUDY. <i>Surface Review and Letters</i> , 2015 , 22, 1550013 | 1.1 | 3 |
| 184 | Effects of solute size on solid-solution hardening in vanadium alloys: A first-principles calculation. <i>Scripta Materialia</i> , 2015 , 100, 106-109 | 5.6 | 15 |
| 183 | Amorphization and thermal stability of aluminum-based nanoparticles prepared from the rapid cooling of nanodroplets: effect of iron addition. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6511-22 | 3.6 | 9 |
| 182 | Insights into Enhanced Visible-Light Photocatalytic Hydrogen Evolution of g-C ₃ N ₄ and Highly Reduced Graphene Oxide Composite: The Role of Oxygen. <i>Chemistry of Materials</i> , 2015 , 27, 1612-1621 | 9.6 | 219 |
| 181 | Atomic self-diffusion behaviors relevant to 2D homoepitaxy growth on stepped Pd(001) surface. <i>Surface Science</i> , 2014 , 624, 89-94 | 1.8 | 12 |
| 180 | The alloying element dependence of the local lattice deformation and the elastic properties of Ni ₃ Al: A molecular dynamics simulation. <i>Journal of Applied Physics</i> , 2014 , 115, 153507 | 2.5 | 16 |
| 179 | The stability and diffusion properties of foreign impurity atoms on the surface and in the bulk of vanadium: A first-principles study. <i>Computational Materials Science</i> , 2014 , 81, 191-198 | 3.2 | 18 |
| 178 | Diffusion of Co, Ru and Re in Ni-based superalloys: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2014 , 588, 163-169 | 5.7 | 32 |
| 177 | Atomistic simulations of the Fe(001)-liquid interface. <i>Fusion Engineering and Design</i> , 2014 , 89, 2894-2901 | 1.7 | 15 |
| 176 | Surface Segregation and Chemical Ordering Patterns of AgPd Nanoalloys: Energetic Factors, Nanoscale Effects, and Catalytic Implication. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27850-27860 | 3.8 | 28 |
| 175 | Thermodynamic properties of Li, Pb and Li ₁₇ Pb ₈₃ with molecular dynamics simulations. <i>Fusion Engineering and Design</i> , 2014 , 89, 2946-2952 | 1.7 | 11 |
| 174 | First-principles study of nitrogen adsorption and dissociation on Uranium (001) surface. <i>RSC Advances</i> , 2014 , 4, 57308-57321 | 3.7 | 7 |

| | | | |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 173 | Migration of defect clusters and xenon-vacancy clusters in uranium dioxide. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1450120 | 1.1 | 2 |
| 172 | Diffusion properties of liquid lithium-lead alloys from atomistic simulation. <i>Computational Materials Science</i> , 2014 , 93, 74-80 | 3.2 | 10 |
| 171 | First-principles study on the interaction of nitrogen atom with Uranium: From surface adsorption to bulk diffusion. <i>Journal of Applied Physics</i> , 2014 , 115, 164902 | 2.5 | 7 |
| 170 | Effect of Re content on the γ/α interface: A Monte Carlo simulation. <i>Computational Materials Science</i> , 2014 , 89, 75-79 | 3.2 | 6 |
| 169 | Molecular dynamics simulation of fatigue crack propagation in bcc iron under cyclic loading. <i>International Journal of Fatigue</i> , 2014 , 68, 253-259 | 5 | 38 |
| 168 | An atomic study on the shock-induced plasticity and phase transition for iron-based single crystals. <i>International Journal of Plasticity</i> , 2014 , 59, 180-198 | 7.6 | 80 |
| 167 | First-principles calculation of self-diffusion coefficients in Ni ₃ Al. <i>Journal of Alloys and Compounds</i> , 2014 , 612, 361-364 | 5.7 | 11 |
| 166 | Molecular Dynamics Simulation of the Displacement Cascades in Tungsten with Interstitial Helium Atoms. <i>Fusion Science and Technology</i> , 2014 , 66, 112-117 | 1.1 | 1 |
| 165 | Effect of incident energy on the configuration of FeAl nanoparticles, a molecular dynamics simulation of impact deposition. <i>RSC Advances</i> , 2014 , 4, 2155-2160 | 3.7 | 10 |
| 164 | Temperature effects on growth configurations of Al atoms on an Fe rhombohedron: a molecular dynamics simulation. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1 | 2.3 | 5 |
| 163 | Gibbs free energy, surface stress and melting point of nanoparticle. <i>Physica B: Condensed Matter</i> , 2013 , 425, 90-94 | 2.8 | 16 |
| 162 | Strain driven enhancement of ferroelectricity and magnetoelectric effect in multiferroic tunnel junction. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14770-6 | 3.6 | 10 |
| 161 | Transition Metal Adsorption Promotes Patterning and Doping of Graphene by Electron Irradiation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17644-17649 | 3.8 | 7 |
| 160 | Atomistic simulation for the size effect on the mechanical properties of Ni/Ni ₃ Al nanowire. <i>Journal of Applied Physics</i> , 2013 , 114, 094303 | 2.5 | 11 |
| 159 | Critical thickness for ferroelectricity and magnetoelectric effect in multiferroic tunnel junction with symmetrical and asymmetrical electrodes. <i>European Physical Journal B</i> , 2013 , 86, 1 | 1.2 | 36 |
| 158 | The calculation of surface free energy based on embedded atom method for solid nickel. <i>Applied Surface Science</i> , 2013 , 265, 375-378 | 6.7 | 22 |
| 157 | Effects of substitutional He atoms on the displacement cascades in α -Fe. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 303, 72-74 | 1.2 | 2 |
| 156 | Atomistic simulations of solid solution strengthening in Ni-based superalloy. <i>Computational Materials Science</i> , 2013 , 68, 132-137 | 3.2 | 15 |

| | | | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 155 | Diffusion of small He clusters in bulk and grain boundaries in Fe. <i>Journal of Nuclear Materials</i> , 2013 , 442, S667-S673 | 3.3 | 29 |
| 154 | Shock Waves Propagation and Phase Transition in Single Crystal Iron under Ramp Compression: Large Scale Parallel NEMD Simulations. <i>Procedia Engineering</i> , 2013 , 61, 122-129 | | 7 |
| 153 | Effect of voids on the tensile properties of vanadium nanowires. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 303, 14-17 | 1.2 | 4 |
| 152 | Morphology, dimension, and composition dependence of thermodynamically preferred atomic arrangements in Ag-Pt nanoalloys. <i>Faraday Discussions</i> , 2013 , 162, 293-306 | 3.6 | 21 |
| 151 | The formation of Fe-core-Al-shell and Fe-shell-Al-core nanoparticles, a molecular dynamics simulation. <i>Computational Materials Science</i> , 2013 , 74, 160-164 | 3.2 | 8 |
| 150 | Surface self-diffusion of Re adatom on the Re cluster with hexahedral structure. <i>Physica B: Condensed Matter</i> , 2013 , 414, 97-102 | 2.8 | 3 |
| 149 | Atomistic simulation for the β -phase volume fraction dependence of the interfacial behavior of Ni-base superalloy. <i>Applied Surface Science</i> , 2013 , 264, 563-569 | 6.7 | 8 |
| 148 | The cluster-size dependence of self-diffusion behavior: A single Re adatom on a hexahedral surface. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 1363-1369 | 1.3 | 4 |
| 147 | Effects of Sr and Sn on microstructure and corrosion resistance of Mg ₉₂ Zr ₈ Ca magnesium alloy for biomedical applications. <i>Materials & Design</i> , 2012 , 39, 379-383 | | 65 |
| 146 | Site preference and elastic properties of ternary alloying additions in B2 YAg alloys by first-principles calculations. <i>Physica B: Condensed Matter</i> , 2012 , 407, 3749-3752 | 2.8 | 1 |
| 145 | Diffusion and growth of nickel, iron and magnesium adatoms on the aluminum truncated octahedron: A molecular dynamics simulation. <i>Surface Science</i> , 2012 , 606, 971-980 | 1.8 | 25 |
| 144 | Molecular dynamics simulations of point defects in plutonium grain boundaries. <i>Chinese Physics B</i> , 2012 , 21, 026103 | 1.2 | 11 |
| 143 | Atomistic simulation for the size-dependent melting behaviour of vanadium nanowires. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 485304 | 3 | 5 |
| 142 | Substrate Dependence of Growth Configurations for Co ₂ Cu Bimetallic Clusters. <i>Crystal Growth and Design</i> , 2012 , 12, 2978-2985 | 3.5 | 25 |
| 141 | Gibbs free energy approach to the prediction of melting points of isolated, supported, and embedded nanoparticles. <i>Journal of Applied Physics</i> , 2012 , 112, 014302 | 2.5 | 5 |
| 140 | Effects of contact shape on ballistic phonon transport in semiconductor nanowires. <i>Current Applied Physics</i> , 2012 , 12, 437-442 | 2.6 | |
| 139 | Calculation of Thermodynamic and Thermoelastic Properties for Ductile B2-YAg Intermetallics with Molecular Dynamics. <i>Advanced Materials Research</i> , 2012 , 550-553, 2814-2818 | 0.5 | 1 |
| 138 | Site Preference and Elastic Properties of 5d Transition Metals in Ductility YAg Alloys. <i>Advanced Materials Research</i> , 2012 , 472-475, 1397-1401 | 0.5 | |

| | | | |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 137 | Site Preference and Elastic Properties of 3d Transition Metals Alloying Addition in Ductility YAg Alloys. <i>Advanced Materials Research</i> , 2012 , 535-537, 1000-1004 | 0.5 | |
| 136 | Microstructures and mechanical properties of as cast Mg ₇₀ Zr ₁₀ Ca alloys for biomedical applications. <i>Materials Technology</i> , 2012 , 27, 52-54 | 2.1 | 15 |
| 135 | Computer Simulation of Helium Effects in Plutonium During the Aging Process of Self-Radiation Damage. <i>Communications in Computational Physics</i> , 2012 , 11, 1205-1225 | 2.4 | 9 |
| 134 | Au ₂ Ag Bimetallic Nanoparticles: Surface Segregation and Atomic-Scale Structure. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11355-11363 | 3.8 | 92 |
| 133 | Vacancy-induced magnetism in BaTiO ₃ (001) thin films based on density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 4738-45 | 3.6 | 26 |
| 132 | Tungsten cluster migration on nanoparticles: minimum energy pathway and migration mechanism. <i>European Physical Journal B</i> , 2011 , 80, 31-40 | 1.2 | 2 |
| 131 | Corrosion behavior in SBF for titania coatings on Mg ₉₀ Ca alloy. <i>Journal of Materials Science</i> , 2011 , 46, 2365-2369 | 4.9 | 23 |
| 130 | Effect of Gaussian acoustic nanocavities in a narrow constriction on ballistic phonon transmission. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 635-642 | 2.6 | 1 |
| 129 | Diffusion of Pt dimers on a Wulff polyhedral surface. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011 , 54, 846-850 | 3.6 | 1 |
| 128 | Helium nanobubble release from Pd surface: An atomic simulation. <i>Journal of Materials Research</i> , 2011 , 26, 416-423 | 2.5 | 11 |
| 127 | Helium diffusion behavior and its retention in LaNiAl alloy from molecular dynamic simulations. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011 , 269, 1689-1692 | 1.2 | 4 |
| 126 | Effect of uniaxial strain on adatom diffusion across {111}-faceted step. <i>Applied Surface Science</i> , 2011 , 257, 3325-3330 | 6.7 | 1 |
| 125 | Stress-induced phase transformation and strain rate effect in polycrystalline Mo nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011 , 43, 1131-1139 | 3 | 8 |
| 124 | Ballistic phonon transport through a Fibonacci array of acoustic nanocavities in a narrow constriction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 2000-2006 | 2.3 | 1 |
| 123 | Surface self-diffusion behavior of individual tungsten adatoms on rhombohedral clusters. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 395004 | 1.8 | 4 |
| 122 | Ballistic phonon transmission in quasiperiodic acoustic nanocavities. <i>Journal of Applied Physics</i> , 2011 , 109, 084310 | 2.5 | 3 |
| 121 | Uniaxial strain-modulated conductivity in manganite superlattice (LaMnO ₃ /SrMnO ₃). <i>Applied Physics Letters</i> , 2011 , 98, 031910 | 3.4 | 39 |
| 120 | Magnetoelectric effect and critical thickness for ferroelectricity in Co/BaTiO ₃ /Co multiferroic tunnel junctions. <i>Journal of Applied Physics</i> , 2011 , 109, 114107 | 2.5 | 48 |

| | | | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 119 | Compressive Properties of Hot-Rolled Mg-Zr-Ca Alloys for Biomedical Applications. <i>Advanced Materials Research</i> , 2011 , 197-198, 56-59 | 0.5 | 9 |
| 118 | Energetics and Properties of Vacancies, Anti-Sites, and Atomic Defects (B, C, and N) in Ductile B2-YM (M=Ag, Cu, Rh) Intermetallics. <i>Materials Science Forum</i> , 2011 , 689, 91-94 | 0.4 | 2 |
| 117 | BALLISTIC PHONON TRANSPORT THROUGH GAUSSIAN ACOUSTIC NANOCAVITIES. <i>Modern Physics Letters B</i> , 2011 , 25, 1631-1642 | 1.6 | 3 |
| 116 | Microstructural Characterization and Mechanical Properties of Mg-Zr-Ca Alloys Prepared by Hot-Extrusion for Biomedical Applications. <i>Advanced Science Letters</i> , 2011 , 4, 2860-2863 | 0.1 | 7 |
| 115 | Energy dissipation and defect generation in nanocrystalline silicon carbide. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 36 |
| 114 | Migration of Cr-vacancy clusters and interstitial Cr in α -Fe using the dimer method. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 6 |
| 113 | Surface Segregation and Structural Features of Bimetallic AuPt Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11026-11032 | 3.8 | 106 |
| 112 | Dynamics diffusion behaviors of Pd small clusters on a Pd(1 1 1) surface. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010 , 18, 045010 | 2 | 8 |
| 111 | Strain-driven phase transition of molybdenum nanowire under uniaxial tensile strain. <i>Computational Materials Science</i> , 2010 , 50, 373-377 | 3.2 | 13 |
| 110 | Embedded-atom-method interatomic potentials from lattice inversion. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 375503 | 1.8 | 15 |
| 109 | Phase transition in nanocrystalline iron: Atomistic-level simulations. <i>International Journal of Materials Research</i> , 2010 , 101, 1361-1368 | 0.5 | 7 |
| 108 | First-principle study of the electronic structures and ferroelectric properties in BaZnF ₄ . <i>European Physical Journal B</i> , 2010 , 74, 447-450 | 1.2 | 10 |
| 107 | Surface self-diffusion of a Pt adatom on cuboctahedral and truncated decahedral clusters, size dependence. <i>European Physical Journal B</i> , 2010 , 78, 315-321 | 1.2 | 4 |
| 106 | Hydrogen storage properties of destabilized MgH ₂ - α -AlH ₃ system. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 8122-8129 | 6.7 | 35 |
| 105 | Surface self-diffusion of adatom on Pt cluster with truncated octahedron structure. <i>Thin Solid Films</i> , 2010 , 518, 4041-4045 | 2.2 | 7 |
| 104 | Atomistic simulations for the non-equilibrium surface premelting and melting of Nb(110) plane. <i>Current Applied Physics</i> , 2010 , 10, 436-443 | 2.6 | 1 |
| 103 | Material properties dependence of ballistic phonon transmission through two coupled nanocavities. <i>Journal of Applied Physics</i> , 2009 , 105, 124305 | 2.5 | 10 |
| 102 | The effect of step thickness on the surface diffusion of a Pt adatom. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2009 , 17, 075004 | 2 | 3 |

| | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 101 | The effect of vacancy created by ion irradiation on the ordering of FePt: A first-principle study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 3271-3273 | 1.2 | 6 |
| 100 | Adsorption of hydrogen on palladium nanoparticle surfaces. <i>Surface and Interface Analysis</i> , 2009 , 41, 590-594 | 1.5 | 10 |
| 99 | First-principles approach to the properties of point defects and small helium-vacancy clusters in palladium. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 3037-3040 | 1.2 | 12 |
| 98 | Energetics and self-diffusion behavior of Zr atomic clusters on a Zr(0 0 0 1) surface. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 3267-3270 | 1.2 | 7 |
| 97 | Atomistic simulation of helium bubble nucleation in palladium. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 3185-3188 | 1.2 | 10 |
| 96 | Diffusion dynamics of vacancy on Re(0 0 0 1), compared with adatom. <i>Physica B: Condensed Matter</i> , 2009 , 404, 1546-1549 | 2.8 | 3 |
| 95 | Molecular dynamics simulation of helium-vacancy interaction in plutonium. <i>Journal of Nuclear Materials</i> , 2009 , 385, 75-78 | 3.3 | 12 |
| 94 | Self-diffusion dynamic behavior of atomic clusters on Re(0001) surface. <i>Applied Surface Science</i> , 2009 , 255, 8883-8889 | 6.7 | 8 |
| 93 | Diffusion of tungsten clusters on tungsten (110) surface. <i>European Physical Journal B</i> , 2009 , 68, 479-485 | 1.2 | 17 |
| 92 | Self-diffusion behaviors of Pd adatom and dimer on Pd(001) surface. <i>Computational Materials Science</i> , 2009 , 47, 501-505 | 3.2 | 5 |
| 91 | First-principles study for vacancy-induced magnetism in nonmagnetic ferroelectric BaTiO ₃ . <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10934-8 | 3.6 | 61 |
| 90 | Surface Self-Diffusion Behavior of a Pt Adatom on Wulff Polyhedral Clusters. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21501-21505 | 3.8 | 22 |
| 89 | Enhancement of the bioactivity of titanium oxide nanotubes by precalcification. <i>Materials Letters</i> , 2008 , 62, 3035-3038 | 3.3 | 40 |
| 88 | Giant Magneto-Optical Kerr Effects in Ferromagnetic Perovskite BiNiO ₃ with Half-Metallic State. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16638-16642 | 3.8 | 8 |
| 87 | Size Effect on the Thermodynamic Properties of Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2359-2369 | 3.8 | 156 |
| 86 | Melting temperature of Pb nanostructural materials from free energy calculation. <i>Journal of Chemical Physics</i> , 2008 , 128, 074710 | 3.9 | 21 |
| 85 | Long-Time Scale Molecular Dynamics Study of Diffusion Dynamics of Small Cu Clusters on Cu(111) Surface. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2074-2078 | 3.8 | 33 |
| 84 | Molecular dynamics simulation of surface melting behaviours of the V(110) plane. <i>Chinese Physics B</i> , 2008 , 17, 2633-2638 | 1.2 | 4 |

| | | | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 83 | Comparison of the Solid Solution Properties of Mg-RE (Gd, Dy, Y) Alloys with Atomistic Simulation. <i>Research Letters in Physics</i> , 2008 , 2008, 1-4 | | 8 |
| 82 | Thermodynamic properties and elastic constants of NdMg intermetallics: a molecular dynamics study. <i>International Journal of Materials Research</i> , 2008 , 99, 42-49 | 0.5 | 1 |
| 81 | Molecular dynamics study of the hcpBcc phase transformation in nanocrystalline zirconium. <i>International Journal of Materials Research</i> , 2008 , 99, 626-631 | 0.5 | 2 |
| 80 | Comparative study of compact hexagonal cluster self-diffusion on Cu(111) and Pt(111). <i>Applied Surface Science</i> , 2008 , 255, 1736-1740 | 6.7 | 8 |
| 79 | Electrochemical hydrogen storage properties of La _{0.7} Mg _{0.3} Ni _{3.5} Ti _{0.17} Zr _{0.08} V _{0.35} Cr _{0.1} Ni _{0.3} La _{0.7} Mg _{0.3} Ni _{3.5} Ti _{0.17} Zr _{0.08} V _{0.35} Cr _{0.1} Ni _{0.3} composites. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 755-761 | 6.7 | 28 |
| 78 | Interaction between helium and vacancy in plutonium by embedded atom method. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 1493-1497 | 1.3 | 3 |
| 77 | Molecular dynamics simulation of polycrystalline molybdenum nanowires under uniaxial tensile strain: Size effects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 3030-3036 | 3 | 26 |
| 76 | First-principles calculation of the elastic constants, the electronic density of states and the ductility mechanism of the intermetallic compounds: YAg, YCu and YRh. <i>Physica B: Condensed Matter</i> , 2008 , 403, 3792-3797 | 2.8 | 36 |
| 75 | Preparation and properties of HVOF NiAl nanostructured coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 478, 1-8 | 5.3 | 22 |
| 74 | First-principles study of structural, electronic, and multiferroic properties in BiCoO ₃ . <i>Journal of Chemical Physics</i> , 2007 , 126, 154708 | 3.9 | 52 |
| 73 | The dynamic diffusion behaviors of 2D small Fe clusters on a Fe(110) surface. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 446009 | 1.8 | 14 |
| 72 | Surface melting of close-packed Mg(0001). <i>Solid State Communications</i> , 2007 , 143, 545-549 | 1.6 | 11 |
| 71 | Thermal shock behavior of EB-PVD thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2007 , 201, 7387-7391 | 4.4 | 21 |
| 70 | First-principles study for the atomic structures and electronic properties of PbTiO ₃ oxygen-vacancies (001) surface. <i>Surface Science</i> , 2007 , 601, 5412-5418 | 1.8 | 7 |
| 69 | Atomistic simulation of Pt trimer on Pt(1 1 1) surface. <i>Applied Surface Science</i> , 2007 , 253, 8825-8829 | 6.7 | 16 |
| 68 | Anharmonic effects on B ₂ BeAl(110) surface: A molecular dynamics study. <i>Applied Surface Science</i> , 2007 , 254, 1475-1481 | 6.7 | 6 |
| 67 | Melting mechanisms of Nb(111) plane with molecular dynamics simulations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 365, 161-165 | 2.3 | 4 |
| 66 | Surface melting of close-packed Mg(0001), compared with Al(111). <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 1913-1924 | 1.3 | 1 |

| | | | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 65 | Microstructural changes and elemental diffusion of sputtered NiCrAlY coating on a Ni-base SC superalloy subjected to high temperature. <i>Materials Letters</i> , 2007 , 61, 5169-5172 | 3.3 | 16 |
| 64 | Monte carlo simulation of hydrogen adsorption on Ni surfaces. <i>Frontiers of Physics in China</i> , 2007 , 2, 199-203 | | 2 |
| 63 | The improved electrochemical properties of novel LaMgNi-based hydrogen storage composites. <i>Electrochimica Acta</i> , 2007 , 52, 6700-6706 | 6.7 | 30 |
| 62 | Hydroxyapatite/titania sol-gel coatings on titanium-zirconium alloy for biomedical applications. <i>Acta Biomaterialia</i> , 2007 , 3, 403-10 | 10.8 | 128 |
| 61 | Ab initio study of ruffled relaxation and core-level shift of barium titanate surface. <i>Surface Science</i> , 2007 , 601, 1345-1350 | 1.8 | 12 |
| 60 | First-principles study of pressure-induced metal-insulator transition in BiNiO ₃ . <i>Applied Physics Letters</i> , 2007 , 91, 101901 | 3.4 | 26 |
| 59 | Elastic constants and thermodynamic properties of MgBr, MgDy, MgZr intermetallics with atomistic simulations. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 7584-7592 | 3 | 26 |
| 58 | Atomistic study of small helium bubbles in plutonium. <i>Journal of Alloys and Compounds</i> , 2007 , 444-445, 300-304 | 5.7 | 19 |
| 57 | Solid solution mechanism and thermodynamic properties of TiBe alloy system: Experiment and theory. <i>Intermetallics</i> , 2007 , 15, 1116-1121 | 3.5 | 4 |
| 56 | Molecular dynamics simulation of thermal stability of nanocrystalline vanadium. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 400-407 | | 1 |
| 55 | Sol-gel derived hydroxyapatite/titania biocoatings on titanium substrate. <i>Materials Letters</i> , 2006 , 60, 1575-1578 | 3.3 | 58 |
| 54 | Comparative study of microstructural evolution during melting and crystallization. <i>Journal of Chemical Physics</i> , 2006 , 125, 014503 | 3.9 | 29 |
| 53 | Melting, melting competition, and structural transitions between shell-closed icosahedral and octahedral nickel nanoclusters. <i>Physical Review B</i> , 2006 , 73, | 3.3 | 37 |
| 52 | The Formation Energies and Binding Energies of Helium Vacancy Cluster: Comparative Study in Ni and Pd. <i>Journal of Physics: Conference Series</i> , 2006 , 29, 190-193 | 0.3 | 2 |
| 51 | Melting temperature: from nanocrystalline to amorphous phase. <i>Journal of Chemical Physics</i> , 2006 , 125, 184504 | 3.9 | 29 |
| 50 | Sol-gel derived HA/TiO ₂ double coatings on Ti scaffolds for orthopaedic applications. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, s209-s216 | 3.3 | 21 |
| 49 | Diffusion behaviors of helium atoms at two Pd grain boundaries. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, s804-s807 | 3.3 | 3 |
| 48 | Adsorption of hydrogen atoms on Pd (211), (311) and (511) stepped defective surfaces. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, s820-s823 | 3.3 | 4 |

| | | | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 47 | Ab initio study of structural and electronic properties of SrTiO ₃ (001) oxygen-vacancy surfaces. <i>Journal of Chemical Physics</i> , 2006 , 124, 174701 | 3.9 | 24 |
| 46 | Anharmonic effects on Be(0001): A molecular dynamics study. <i>Computational Materials Science</i> , 2006 , 37, 607-612 | 3.2 | 2 |
| 45 | Theoretical calculation of thermodynamic data for gold-rare earth alloys with the embedded-atom method. <i>Journal of Alloys and Compounds</i> , 2006 , 420, 83-93 | 5.7 | 28 |
| 44 | A comparative study of helium atom diffusion via an interstitial mechanism in nickel and palladium. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 579-583 | 1.3 | 19 |
| 43 | A study of the behavior of helium atoms at Ni grain boundaries. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 2702-2710 | 1.3 | 17 |
| 42 | Anharmonicity in Al vicinal surfaces of (1 0 0) with (1 1 1) step. <i>Applied Surface Science</i> , 2006 , 252, 4923-4930 | 3.0 | 2 |
| 41 | Atomistic behavior of helium-vacancy clusters in aluminum. <i>Journal of Nuclear Materials</i> , 2006 , 350, 83-88 | 3.3 | 18 |
| 40 | Molecular dynamics simulations of grain growth in nanocrystalline Ag. <i>Journal of Crystal Growth</i> , 2006 , 286, 512-517 | 1.6 | 15 |
| 39 | Thermocyclic behavior of sputtered NiCrAlY/EB-PVD 7 wt.%Y ₂ O ₃ /ZrO ₂ thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2006 , 200, 3770-3774 | 4.4 | 16 |
| 38 | Hot Corrosion of a Single Crystal Ni-Base Superalloy by Na-Salts at 900°C. <i>Oxidation of Metals</i> , 2006 , 65, 137-150 | 1.6 | 39 |
| 37 | Shell and subshell periodic structures of icosahedral nickel nanoclusters. <i>Journal of Chemical Physics</i> , 2005 , 122, 214501 | 3.9 | 22 |
| 36 | Surface-area-difference model for thermodynamic properties of metallic nanocrystals. <i>Journal of Physics D: Applied Physics</i> , 2005 , 38, 1429-1436 | 3 | 76 |
| 35 | Localized electronic states in δ -layer-based superlattices with structural defects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 28, 374-384 | 3 | 3 |
| 34 | Discontinuity effect on the phonon transmission and thermal conductance in a dielectric quantum waveguide. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 336, 245-252 | 2.3 | 28 |
| 33 | Melting evolution and diffusion behavior of vanadium nanoparticles. <i>European Physical Journal B</i> , 2005 , 45, 547-554 | 1.2 | 59 |
| 32 | Melting behaviors of nanocrystalline Ag. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20339-42 | 3.4 | 52 |
| 31 | Electrical and Thermal Conductivities of Nickel-Zirconia Cermets. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2209-2212 | 3.8 | 19 |
| 30 | Simulation calculations of surface segregation for AuCu alloys using an analytic embedded atom model. <i>Physica Status Solidi A</i> , 2005 , 202, 2686-2699 | | 6 |

| | | | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 29 | Acoustic-phonon transmission and thermal conductance in a double-bend quantum waveguide. <i>Journal of Applied Physics</i> , 2005 , 98, 093524 | 2.5 | 37 |
| 28 | LATTICE THERMAL CONDUCTIVITY IN A HOLLOW SILICON NANOWIRE. <i>International Journal of Modern Physics B</i> , 2005 , 19, 1017-1027 | 1.1 | 17 |
| 27 | Temperature dependence of atomic relaxation and vibrations for the vicinal Ni(9 7 7) surface: a molecular dynamics study. <i>Surface Science</i> , 2004 , 572, 439-448 | 1.8 | 62 |
| 26 | Analytic embedded-atom method approach to studying the surface segregation of AlMg alloys. <i>Applied Surface Science</i> , 2004 , 221, 408-414 | 6.7 | 19 |
| 25 | Self-diffusion of Al and Pb atoms in AlPb immiscible alloy system. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004 , 108, 253-257 | 3.1 | 12 |
| 24 | Influence of the coupling between the normal and lateral motions on surface states of a semi-infinite superlattice with a cap layer. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 325, 70-78 | 2.3 | 7 |
| 23 | Calculation of the cohesive energy of metallic nanoparticles by the Lennard-Jones potential. <i>Materials Letters</i> , 2004 , 58, 1745-1749 | 3.3 | 19 |
| 22 | Synthesis and Characterization of Nanocrystalline Iron Aluminide Intermetallic Compounds. <i>Materials Transactions</i> , 2003 , 44, 2678-2687 | 1.3 | 19 |
| 21 | Point-defect properties in HCP rare earth metals with analytic modified embedded atom potentials. <i>European Physical Journal B</i> , 2003 , 34, 429-440 | 1.2 | 63 |
| 20 | Atomistic simulation of the segregation profiles in MoRe random alloys. <i>Surface Science</i> , 2003 , 543, 95-102 | 1.8 | 24 |
| 19 | Oxidation behavior of sputter-deposited NiCrAlY coating. <i>Surface and Coatings Technology</i> , 2003 , 165, 241-247 | 4.4 | 58 |
| 18 | Modified analytic EAM potentials for the binary immiscible alloy systems. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 355, 357-367 | 5.3 | 36 |
| 17 | Monte Carlo simulation of the surface segregation of PtPd and PtIr alloys with an analytic embedded-atom method. <i>Surface Science</i> , 2002 , 517, 177-185 | 1.8 | 40 |
| 16 | The application of the analytic embedded atom potentials to alkali metals. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2002 , 10, 707-726 | 2 | 40 |
| 15 | Point-defect properties in body-centered cubic transition metals with analytic EAM interatomic potentials. <i>Computational Materials Science</i> , 2002 , 23, 175-189 | 3.2 | 106 |
| 14 | Analytic modified embedded atom potentials for HCP metals. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 1193-1213 | 1.8 | 142 |
| 13 | Calculation of thermodynamic properties of Mg-RE (RE = Sc, Y, Pr, Nd, Gd, Tb, Dy, Ho or Er) alloys by an analytic modified embedded atom method. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 711-718 | 3 | 52 |
| 12 | Determination of dynamic mechanical properties of metals from single pendulum scratch tests. <i>Tribology International</i> , 1999 , 32, 153-160 | 4.9 | 7 |

| | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 11 | Calculation of formation enthalpies and phase stability for RuAl alloys using an analytic embedded atom model. <i>Journal of Alloys and Compounds</i> , 1999 , 287, 159-162 | 5-7 | 71 |
| 10 | Crystallization study of electroless FeSnB amorphous alloy deposits. <i>Journal of Alloys and Compounds</i> , 1999 , 287, 234-238 | 5-7 | 17 |
| 9 | Graded coatings prepared by plasma spraying with Ni-coated ZrO ₂ powders. <i>Surface and Coatings Technology</i> , 1998 , 105, 102-108 | 4-4 | 15 |
| 8 | Synthesis of Zirconia-Nickel Cermets by a Powder Metallurgical Technique. <i>Materials and Manufacturing Processes</i> , 1998 , 13, 229-240 | 4-1 | 1 |
| 7 | Thermal expansion behavior of ZrO ₂ -Y ₂ O ₃ -Ni cermets. <i>Materials Letters</i> , 1997 , 32, 59-62 | 3-3 | 7 |
| 6 | Force-sensitive resistor of carbon-filled liquid silicone rubber. <i>Journal of Applied Physics</i> , 1996 , 79, 866 | 2-5 | 5 |
| 5 | Crystallization of amorphous NiCuB alloys obtained by electroless plating. <i>Physica B: Condensed Matter</i> , 1995 , 212, 195-200 | 2-8 | 12 |
| 4 | The crystalline phases in rapidly solidified Al ₆₅ Cu ₂₀ Fe ₁₅ alloy powders. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 32, 1325-1330 | | 2 |
| 3 | The activation energy and the Avrami exponent for crystallization in amorphous Fe _{70.45} W _{1.55} Si ₃ B ₂₅ . <i>Physica B: Condensed Matter</i> , 1994 , 203, 147-150 | 2-8 | 5 |
| 2 | Structure and crystallization of amorphous Fe-B alloys obtained by chemical plating. <i>Physica B: Condensed Matter</i> , 1991 , 175, 396-400 | 2-8 | 17 |
| 1 | Amorphous B-doped graphitic carbon nitride quantum dots with high photoluminescence quantum yield of near 90% and their sensitive detection of Fe ²⁺ /Cd ²⁺ . <i>Science China Materials</i> , 1 | 7-1 | 3 |