

Huiqiu Deng

List of Publications by Year in descending order

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249
papers

5,035
citations

109137

35
h-index

149479

56
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250
all docs

250
docs citations

250
times ranked

4682
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics simulation study of helium bubble growth on W/Ta semi-coherent interface. Journal of Nuclear Materials, 2022, 558, 153340.	1.3	6
2	Ta concentration effect on nucleation of defects in W-Ta alloy from first-principles model. Materials Today Communications, 2022, 30, 103071.	0.9	0
3	The mechanism of plasticity and phase transition in iron single crystals under cylindrically divergent shock loading. International Journal of Mechanical Sciences, 2022, 217, 107032.	3.6	6
4	Atomic insight into iron corrosion exposed to supercritical water environment with an improved Fe-H ₂ O reactive force field. Applied Surface Science, 2022, 580, 152300.	3.1	14
5	Solidification of Undercooled Liquid under Supergravity Field by Phase-Field Crystal Approach. Metals, 2022, 12, 232.	1.0	4
6	Molecular dynamic simulations of plasticity and phase transition in Mg polycrystalline under shock compression. Applied Physics Express, 2022, 15, 015503.	1.1	4
7	Shock-induced plasticity and phase transformation in single crystal magnesium: an interatomic potential and non-equilibrium molecular dynamics simulations. Journal of Physics Condensed Matter, 2022, 34, 115401.	0.7	8
8	Effect of Vacancies on Dynamic Response and Spallation in Single-Crystal Magnesium by Molecular Dynamic Simulation. Metals, 2022, 12, 215.	1.0	2
9	Effect of nanopores on plasticity and their collapse mechanism in magnesium single crystal under shock loading. Journal of Applied Physics, 2022, 131, 055903.	1.1	2
10	Molecular dynamic simulations of displacement cascades in tungsten and tungsten-rhenium alloys: Effects of grain boundary and/or γ phase. Journal of Nuclear Materials, 2022, 561, 153543.	1.3	7
11	Study on the relationship between surface and dislocation of nanoporous copper under cyclic shear loading. AIP Advances, 2022, 12, .	0.6	1
12	Influence of titanium on the clustering of vacancy, rhenium and osmium in tungsten-titanium alloys: First-principles study. Fusion Engineering and Design, 2022, 178, 113098.	1.0	1
13	Molecular Dynamics Simulations of Xe Behaviors at the Grain Boundary in UO ₂ . Metals, 2022, 12, 763.	1.0	3
14	Effects of Point Defects on the Stable Occupation, Diffusion and Nucleation of Xe and Kr in UO ₂ . Metals, 2022, 12, 789.	1.0	1
15	Orientation dependence of shock-induced change of habit plane for the $\frac{1}{2}\langle 111 \rangle$ dislocation loop and plasticity in tungsten. International Journal of Plasticity, 2022, 155, 103329.	4.1	11
16	Investigation of the W/Y ₂ O ₃ heterogeneous interface properties and its effect on hydrogen behavior using first-principles calculations. Nuclear Fusion, 2022, 62, 086015.	1.6	2
17	Effect of crystallographic orientations on shock-induced plasticity for CoCrFeMnNi high-entropy alloy. International Journal of Mechanical Sciences, 2022, 226, 107373.	3.6	21
18	Unraveling the effects of anions in NixAy@CC (A=O, S, P) on Li-sulfur batteries. Materials Today Nano, 2021, 13, 100106.	2.3	5

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19	Electroreduction of Carbon Dioxide Driven by the Intrinsic Defects in the Carbon Plane of a Single Fe ₄ Site. <i>Advanced Materials</i> , 2021, 33, e2003238.	11.1	202
20	Suppressing/enhancing effect of rhenium on helium clusters evolution in tungsten: Dependence on rhenium distribution. <i>Journal of Nuclear Materials</i> , 2021, 543, 152545.	1.3	7
21	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.	1.5	1
22	The interactions between nitrogen oxides and ¹³⁷ U-uranium surface. <i>Nuclear Materials and Energy</i> , 2021, 26, 100945.	0.6	0
23	In-situ TEM investigation of 30 keV He ⁺ irradiated tungsten: Effects of temperature, fluence, and sample thickness on dislocation loop evolution. <i>Acta Materialia</i> , 2021, 206, 116618.	3.8	47
24	Revealing the hardening mechanisms of ion-irradiated nanostructured multilayers/substrate systems: A theoretical model. <i>International Journal of Plasticity</i> , 2021, 138, 102925.	4.1	7
25	Wire-in-Wire TiO ₂ /C Nanofibers Free-Standing Anodes for Li-Ion and K-Ion Batteries with Long Cycling Stability and High Capacity. <i>Nano-Micro Letters</i> , 2021, 13, 107.	14.4	55
26	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.	1.3	9
27	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.	3.8	13
28	Atomistic insights into interactions between oxygen and ⁹⁰ Zr (101-1) surface. <i>Nuclear Materials and Energy</i> , 2021, 27, 100974.	0.6	0
29	On the relationship between potential of zero charge and solvent dynamics in the reversible hydrogen electrode. <i>Journal of Catalysis</i> , 2021, 398, 161-170.	3.1	7
30	DFT study on the nucleation of He bubbles in Pd: Effect of H and self-interstitial atoms. <i>Journal of Nuclear Materials</i> , 2021, 549, 152888.	1.3	2
31	Double-layer honeycomb ALP as a promising catalyst for Li-O ₂ and Na-O ₂ batteries. <i>Applied Surface Science</i> , 2021, 550, 149392.	3.1	8
32	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.	1.1	6
33	A strategy to improve the electrochemical performance of Ni-rich positive electrodes: Na/F-co-doped LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ *. <i>Chinese Physics B</i> , 2021, 30, 073101.	0.7	3
34	Phase transformation and mechanical stability of niobium aluminide (Nb ₃ Al) induced by high pressures. <i>Journal of Alloys and Compounds</i> , 2021, 869, 159278.	2.8	6
35	Effects of vacancies on plasticity and phase transformation in single-crystal iron under shock loading. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	6
36	A First-Principles Study on Na and O Adsorption Behaviors on Mo (110) Surface. <i>Metals</i> , 2021, 11, 1322.	1.0	3

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55	Interatomic potentials and defect properties of Fe-Cr-Al alloys. Journal of Nuclear Materials, 2020, 541, 152421.	1.3	18
56	Effect of titanium on the precipitation behaviors of transmutation elements in tungsten-titanium alloys from first-principles calculations. Fusion Engineering and Design, 2020, 158, 111673.	1.0	4
57	Electrospun Ta-doped TiO ₂ /C nanofibers as a high-capacity and long-cycling anode material for Li-ion and K-ion batteries. Journal of Materials Chemistry A, 2020, 8, 20666-20676.	5.2	44
58	Molecular dynamics simulation of the diffusion of self-interstitial atoms and interstitial loops under temperature gradient field in tungsten. Journal of Applied Physics, 2020, 128, 065103.	1.1	5
59	Chemistry of Defects in Crystalline Na ₂ Se: Implications for the Na-Se Battery. Journal of Physical Chemistry C, 2020, 124, 27930-27936.	1.5	11
60	Effect of symmetrical tilt grain boundary on the compatibility between copper and liquid lithium: Atomistic simulations. Journal of Alloys and Compounds, 2020, 835, 155212.	2.8	5
61	New Insight into the Confinement Effect of Microporous Carbon in Li/Se Battery Chemistry: A Cathode with Enhanced Conductivity. Small, 2020, 16, e2000266.	5.2	40
62	Dielectric Polarization in Inverse Spinel-Structured Mg ₂ TiO ₄ Coating to Suppress Oxygen Evolution of Li-Rich Cathode Materials. Advanced Materials, 2020, 32, e2000496.	11.1	134
63	Molecular dynamics simulation of cylindrically converging shock response in single crystal Cu. Computational Materials Science, 2020, 183, 109845.	1.4	6
64	Molecular dynamics simulations of the diffusion characteristics on the Fe-W interfaces system. Fusion Engineering and Design, 2020, 159, 111850.	1.0	11
65	Enhanced radiation tolerance of the Ni-Co-Cr-Fe high-entropy alloy as revealed from primary damage. Acta Materialia, 2020, 196, 133-143.	3.8	124
66	Carbide effects on tensile deformation behavior of [001] symmetric tilt grain boundaries in bcc Fe. Modelling and Simulation in Materials Science and Engineering, 2020, 28, 035006.	0.8	1
67	A better nanochannel tungsten film in releasing helium atoms. Journal of Nuclear Materials, 2020, 532, 152044.	1.3	9
68	Molecular dynamics simulations of radiation damage generation and dislocation loop evolution in Ni and binary Ni-based alloys. Computational Materials Science, 2020, 177, 109555.	1.4	18
69	Double-Layer Honeycomb AlP: A Promising Anode Material for Li-, Na-, and K-Ion Batteries. Journal of Physical Chemistry C, 2020, 124, 2978-2986.	1.5	11
70	Interatomic potentials of W-V and W-Mo binary systems for point defects studies. Journal of Nuclear Materials, 2020, 531, 152020.	1.3	18
71	Evaluation of tungsten interatomic potentials for radiation damage simulations. Tungsten, 2020, 2, 3-14.	2.0	12
72	Effect of transmutation elements Re and Ta on the vacancy formation and dissociation behaviors in W bulk. Computational Materials Science, 2020, 179, 109624.	1.4	9

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73	Boosting the charge transfer of $\text{Li}_2\text{TiSiO}_5$ using nitrogen-doped carbon nanofibers: towards high-rate, long-life lithium-ion batteries. <i>Nanoscale</i> , 2020, 12, 19702-19710.	2.8	9
74	Molecular dynamics simulation of the interactions between screw dislocation and stacking fault tetrahedron in $\text{Fe}_{10}\text{Ni}_{20}\text{Cr}$ and Ni. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2020, 28, 075002.	0.8	3
75	A First-Principles Study of MBene as Anode Material for Mg-Ion Battery. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	1.1	9
76	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.	0.8	3
77	Atomistic insights into the reaction mechanism of nanostructured LiI: Implications for rechargeable Li-I2 batteries. <i>Energy Storage Materials</i> , 2019, 17, 211-219.	9.5	10
78	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.	0.8	3
79	Theoretical insights into nitrogen fixation on Ti_2C and Ti_2CO_2 in a lithium-nitrogen battery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19950-19960.	5.2	21
80	Interactions of plasticity and phase transformation under shock in iron bicrystals. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	7
81	The adsorption and dissolution properties of iron surfaces in liquid lithium and lead under a fusion environment. <i>Journal of Nuclear Materials</i> , 2019, 524, 200-208.	1.3	8
82	Defect-rich one-dimensional MoS_2 hierarchical architecture for efficient hydrogen evolution: Coupling of multiple advantages into one catalyst. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117964.	10.8	77
83	First-principles study of hydrogen-vacancy complexes in Be_{12}Ti . <i>Journal of Nuclear Materials</i> , 2019, 525, 7-13.	1.3	8
84	Transition from ductilizing to hardening in tungsten: The dependence on rhenium distribution. <i>Acta Materialia</i> , 2019, 181, 110-123.	3.8	26
85	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.	1.3	13
86	Dopant Segregation Boosting High-Voltage Cyclability of Layered Cathode for Sodium Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1904816.	11.1	89
87	Shock-induced migration of asymmetry tilt grain boundary in iron bicrystal: A case study of $\{110\}^*$. <i>Chinese Physics B</i> , 2019, 28, 126201.	0.7	2
88	Molecular dynamics simulations of shock loading of nearly fully dense granular Ni-Al composites. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20252-20261.	1.3	13
89	Precipitate/vanadium interface and its strengthening on the vanadium alloys: A first-principles study. <i>Journal of Nuclear Materials</i> , 2019, 527, 151821.	1.3	13
90	Molecular dynamics simulations of high-energy radiation damage in W and W-Re alloys. <i>Journal of Nuclear Materials</i> , 2019, 524, 9-20.	1.3	36

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91	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, 200-211.	1.3	32
92	Orientation and grain-boundary dependence of shock-induced plasticity and transformation in nanocrystalline Ti. <i>Physical Review B</i> , 2019, 99, .	1.1	16
93	Ab initio study of interstitial helium clusters in 3C-SiC. <i>Journal of Nuclear Materials</i> , 2019, 521, 13-20.	1.3	12
94	Understanding the release of helium atoms from nanochannel tungsten: a molecular dynamics simulation. <i>Nuclear Fusion</i> , 2019, 59, 076020.	1.6	13
95	Effect of MCl ₃ (M=La, U or Sc) component on the local structures and transport properties of LiClâ€“KClâ€“MCl ₃ eutectic: A molecular dynamics study. <i>Electrochimica Acta</i> , 2019, 306, 366-376.	2.6	18
96	Development of a Niâ€“Mo interatomic potential for irradiation simulation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 045009.	0.8	4
97	Development of the interatomic potentials for W-Ta system. <i>Computational Materials Science</i> , 2019, 163, 91-99.	1.4	26
98	Rectangular Tunnelâ€“Structured Na 0.4 MnO ₂ as a Promising Cathode Material Withstanding a High Cutoff Voltage for Naâ€“Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 1711-1721.	1.7	9
99	Intrinsic strain-induced segregation in multiply twinned Cuâ€“Pt icosahedra. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4802-4809.	1.3	9
100	Corrosion characteristics of copper in static liquid lithium under high vacuum. <i>Journal of Nuclear Materials</i> , 2019, 513, 282-292.	1.3	11
101	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.	4.1	40
102	Revealing the Reaction Mechanism of Sodium Selenide Confined within a Single-Walled Carbon Nanotube: Implications for Naâ€“Se Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4995-5002.	4.0	27
103	Influence of hydrostatic strain on the behaviors of rhenium and osmium in tungsten. <i>Journal of Nuclear Materials</i> , 2019, 516, 111-117.	1.3	1
104	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.	2.8	30
105	Development of interatomic potentials for Fe-Cr-Al alloy with the particle swarm optimization method. <i>Journal of Alloys and Compounds</i> , 2019, 780, 881-887.	2.8	22
106	Molecular dynamics simulation of alloying during sintering of Li and Pb metallic nanoparticles. <i>Computational Materials Science</i> , 2019, 156, 47-55.	1.4	19
107	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.	1.0	23
108	Robust pseudo-capacitive Li-I ₂ battery enabled by catalytic, adsorptive N-doped graphene interlayer. <i>Energy Storage Materials</i> , 2018, 14, 129-135.	9.5	67

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109	Evolution of helium bubbles below different tungsten surfaces under neutron irradiation and non-irradiation conditions. <i>Computational Materials Science</i> , 2018, 148, 242-248.	1.4	16
110	Wetting characteristics of lithium droplet on iron surfaces in atomic scale: A molecular dynamics simulation. <i>Computational Materials Science</i> , 2018, 149, 435-441.	1.4	12
111	Towards understanding the mechanism of rhenium and osmium precipitation in tungsten and its implication for tungsten-based alloys. <i>Journal of Nuclear Materials</i> , 2018, 505, 30-43.	1.3	29
112	Revealing reaction mechanisms of nanoconfined Li ₂ S: implications for lithium-sulfur batteries. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11713-11721.	1.3	18
113	New interatomic potentials of W, Re and W-Re alloy for radiation defects. <i>Journal of Nuclear Materials</i> , 2018, 502, 141-153.	1.3	57
114	Effect of grain boundaries on shock-induced phase transformation in iron bicrystals. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	25
115	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.	5.2	20
116	Oxygen adsorption and diffusion on ¹³⁷ U(0 $\bar{1}$ 0 $\bar{1}$) surface: Effect of titanium. <i>Computational Materials Science</i> , 2018, 144, 85-91.	1.4	13
117	An <i>ab initio</i> study for probing iodization reactions on metallic anode surfaces of Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7807-7814.	5.2	11
118	Molecular dynamics simulations of the characteristics of Mo/Ti interfaces. <i>Computational Materials Science</i> , 2018, 141, 293-301.	1.4	22
119	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.	1.4	8
120	Investigation of the interstitial oxygen behaviors in vanadium alloy: A first-principles study. <i>Current Applied Physics</i> , 2018, 18, 183-190.	1.1	12
121	Shock wave propagation, plasticity, and void collapse in open-cell nanoporous Ta. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28039-28048.	1.3	19
122	Retention and diffusion of transmutation H and He atoms in Be ₁₂ Ti: first-principles calculations. <i>RSC Advances</i> , 2018, 8, 35735-35743.	1.7	12
123	Shockwave generates ~ 100 dislocation loops in bcc iron. <i>Nature Communications</i> , 2018, 9, 4880.	5.8	106
124	Does the Mg ₂ Battery Suffer Severe Shuttle Effect?. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28518-28527.	1.5	9
125	Investigation of wettability of Li on 316L SS surface and interfacial interactions for fusion device. <i>Fusion Engineering and Design</i> , 2018, 137, 420-426.	1.0	3
126	Surface premelting/recrystallization governing the collapse of open-cell nanoporous Cu <i>via</i> thermal annealing. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16184-16192.	1.3	6

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127	Atomic scale analysis of the corrosion characteristics of Cu-Li solid-liquid interfaces. Journal of Alloys and Compounds, 2018, 763, 1-10.	2.8	13
128	The effect of solutes on the precipitate/matrix interface properties in the Vanadium alloys: A first-principles study. Computational Materials Science, 2018, 153, 113-118.	1.4	5
129	First-Principles Calculations on the Wettability of Li Atoms on the (111) Surfaces of W and Mo Substrates. Plasma Physics Reports, 2018, 44, 692-701.	0.3	4
130	Compatibility of Molybdenum, Tungsten, and 304 Stainless Steel in Static Liquid Lithium Under High Vacuum. Plasma Physics Reports, 2018, 44, 671-677.	0.3	10
131	Nanochannel structures in W enhance radiation tolerance. Acta Materialia, 2018, 153, 147-155.	3.8	63
132	Theoretical prediction of LiScO_2 nanosheets as a cathode material for Li^{O_2} batteries. Physical Chemistry Chemical Physics, 2018, 20, 22351-22358.	1.3	7
133	Effect of neon on the hydrogen behaviors in tungsten: A first-principles study. Journal of Nuclear Materials, 2018, 510, 492-498.	1.3	3
134	Modified analytic embedded atom method potential for chromium. Modelling and Simulation in Materials Science and Engineering, 2018, 26, 065001.	0.8	4
135	Molecular dynamics simulation of wetting behaviors of Li on W surfaces. Fusion Engineering and Design, 2017, 117, 188-193.	1.0	13
136	The effects of interstitial impurities on the mechanical properties of vanadium alloys: A first-principles study. Journal of Alloys and Compounds, 2017, 701, 975-980.	2.8	17
137	Behaviors of transmutation elements Re and Os and their effects on energetics and clustering of vacancy and self-interstitial atoms in W. Nuclear Fusion, 2017, 57, 046006.	1.6	32
138	A molecular dynamics study of the transport properties of $\text{LiF-BeF}_2\text{-ThF}_4$ molten salt. Journal of Molecular Liquids, 2017, 234, 220-226.	2.3	11
139	Atomistic simulation of crack propagation in single crystal tungsten under cyclic loading. Journal of Materials Research, 2017, 32, 1474-1483.	1.2	14
140	Atomistic simulations of solidification process in B2-LiPb solid(0 0 1)-liquid system. Journal of Crystal Growth, 2017, 470, 113-121.	0.7	3
141	Molecular dynamics simulations of the structure evolutions of Cu-Zr metallic glasses under irradiation. Nuclear Instruments & Methods in Physics Research B, 2017, 393, 77-81.	0.6	10
142	Investigation of the shock-induced chemical reaction (SICR) in Ni + Al nanoparticle mixtures. Physical Chemistry Chemical Physics, 2017, 19, 17607-17617.	1.3	20
143	Non-equilibrium molecular dynamics simulations of the spallation in Ni: Effect of vacancies. Computational Materials Science, 2017, 137, 273-281.	1.4	18
144	First-principles study of the adsorption properties of atoms and molecules on UN ₂ (001) surface. Journal of Nuclear Materials, 2017, 493, 124-131.	1.3	3

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145	Simulation of radiation damages in molybdenum by combining molecular dynamics and OKMC. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	1.3	3
146	Tensile mechanical properties of Ni-based superalloy of nanophases using molecular dynamics simulation. Physica Status Solidi (B): Basic Research, 2016, 253, 726-732.	0.7	23
147	MD and OKMC simulations of the displacement cascades in nickel. Nuclear Science and Techniques/Hewuli, 2016, 27, 1.	1.3	3
148	Atomistic simulation of mechanical properties and crack propagation of irradiated nickel. Computational Materials Science, 2016, 120, 21-28.	1.4	7
149	The wetting properties of Li droplet on Cu surfaces: A molecular dynamics study. Computational Materials Science, 2016, 119, 114-119.	1.4	23
150	Study of the corrosion behaviors of 304 austenite stainless steel specimens exposed to static liquid lithium at 600ÅK. Journal of Nuclear Materials, 2016, 480, 25-31.	1.3	17
151	Ab initio solute-interstitial impurity interactions in vanadium alloys: the roles of vacancy. RSC Advances, 2016, 6, 78621-78628.	1.7	11
152	Clustering of Fe atoms in liquid Li and its effect on the viscosity of liquid Li. Nuclear Fusion, 2016, 56, 046004.	1.6	7
153	Orientation dependences of the Fe-Li solid-liquid interface properties: Atomistic simulations. Journal of Alloys and Compounds, 2016, 687, 875-884.	2.8	14
154	Atomistic studies of shock-induced phase transformations in single crystal iron with cylindrical nanopores. Computational Materials Science, 2016, 122, 1-10.	1.4	19
155	The energy and stability of helium-related cluster in nickel: A study of molecular dynamics simulation. Nuclear Instruments & Methods in Physics Research B, 2016, 368, 75-80.	0.6	7
156	Development of a pair potential for Ni-He. Journal of Nuclear Materials, 2016, 472, 105-109.	1.3	10
157	Atomic simulation of helium trapping in displacement cascades. RSC Advances, 2016, 6, 27113-27118.	1.7	6
158	First-principles study of the binding preferences and diffusion behaviors of solutes in vanadium alloys. Journal of Alloys and Compounds, 2016, 660, 55-61.	2.8	31
159	Molecular dynamics simulation of diffusion and viscosity of liquid lithium fluoride. Computational Materials Science, 2016, 111, 203-208.	1.4	23
160	The flow behavior of liquid Li in Cu micro-channels. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 104705.	0.2	0
161	Composition Dependence of Lithium Diffusion in Lithium Silicide: A Density Functional Theory Study. ChemElectroChem, 2015, 2, 1292-1297.	1.7	25
162	Oxygen Deficiency and Defect Chemistry in Delithiated Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathodes for Li-Ion Batteries. ChemElectroChem, 2015, 2, 1182-1186.	1.7	18

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163	Coupling between plasticity and phase transition of polycrystalline iron under shock compressions. <i>International Journal of Plasticity</i> , 2015, 71, 218-236.	4.1	57
164	The alloying processes in solid–solid and liquid–solid Li–Pb interfaces with atomistic simulations. <i>Journal of Alloys and Compounds</i> , 2015, 632, 467-472.	2.8	5
165	Evaluating Pristine and Modified SnS ₂ as a Lithium-Ion Battery Anode: A First-Principles Study. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4000-4009.	4.0	75
166	Effects of solute size on solid-solution hardening in vanadium alloys: A first-principles calculation. <i>Scripta Materialia</i> , 2015, 100, 106-109.	2.6	17
167	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, 6511-6522.	1.3	11
168	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.	1.4	1
169	Diffusion mechanisms at the Pb solid–liquid interface: Atomic level point of view. <i>Chemical Physics Letters</i> , 2015, 634, 108-112.	1.2	2
170	New interatomic potentials for studying the behavior of noble gas atoms in tungsten. <i>Journal of Nuclear Materials</i> , 2015, 467, 398-405.	1.3	16
171	A molecular dynamics study of helium diffusion and clustering in fcc nickel. <i>Computational Materials Science</i> , 2015, 107, 54-57.	1.4	17
172	Mesoscale elucidation of laser-assisted chemical deposition of Sn nanostructured electrodes. <i>Journal of Applied Physics</i> , 2015, 117, 214301.	1.1	2
173	Chemical Ordering and Surface Segregation in Cu–Pt Nanoalloys: The Synergetic Roles in the Formation of Multishell Structures. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21515-21527.	1.5	33
174	Atomic simulation of fatigue crack propagation in Ni ₃ Al. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 1399-1406.	1.1	16
175	Stability and diffusion properties of Ti atom on $\hat{\pm}$ -uranium surfaces: A first-principles study. <i>Computational Materials Science</i> , 2015, 97, 201-208.	1.4	3
176	Study of erosion and deposition characteristics of Li during liquid Li limiter experiment in HT-7. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015, 64, 212801.	0.2	3
177	Atomic self-diffusion behaviors relevant to 2D homoepitaxy growth on stepped Pd(001) surface. <i>Surface Science</i> , 2014, 624, 89-94.	0.8	12
178	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.	1.4	21
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