

# Wang-Yu Hu

## List of Publications by Year in descending order

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398  
papers

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57631

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402  
docs citations

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times ranked

7213  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly effective Ru-based Heusler alloy catalysts for N <sub>2</sub> activation: A theoretical study. <i>Applied Surface Science</i> , 2022, 575, 151658.	3.1	9
2	A host-guest self-assembly strategy to enhance $\pi$ -electron densities in ultrathin porous carbon nitride nanocages toward highly efficient hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 430, 132880.	6.6	33
3	Crystallographic-orientation-dependence plasticity of niobium under shock compressions. <i>International Journal of Plasticity</i> , 2022, 150, 103195.	4.1	11
4	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.	3.6	6
5	Solidification of Undercooled Liquid under Supergravity Field by Phase-Field Crystal Approach. <i>Metals</i> , 2022, 12, 232.	1.0	4
6	Molecular dynamic simulations of plasticity and phase transition in Mg polycrystalline under shock compression. <i>Applied Physics Express</i> , 2022, 15, 015503.	1.1	4
7	Highly efficient tree search algorithm for irreducible site-occupancy configurations. <i>Physical Review B</i> , 2022, 105, .	1.1	6
8	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> , 2022, 34, 115401.	0.7	8
9	Critical structural invariant during high-pressure solidification of copper. <i>MRS Communications</i> , 2022, 12, 45-50.	0.8	2
10	Effect of Vacancies on Dynamic Response and Spallation in Single-Crystal Magnesium by Molecular Dynamic Simulation. <i>Metals</i> , 2022, 12, 215.	1.0	2
11	Synergistic Effects of Crystal Phase and Strain for N <sub>2</sub> Dissociation on Ru(0001) Surfaces with Multilayered Hexagonal Close-Packed Structures. <i>ACS Omega</i> , 2022, 7, 4492-4500.	1.6	4
12	Two-dimensional chromium phosphorus monolayer based gas sensors to detect NOx: A first-principles study. <i>Results in Physics</i> , 2022, 32, 105100.	2.0	10
13	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.	1.1	2
14	Molecular dynamic simulations of displacement cascades in tungsten and tungsten-rhenium alloys: Effects of grain boundary and/or $\gamma$ phase. <i>Journal of Nuclear Materials</i> , 2022, 561, 153543.	1.3	7
15	Influence of orientation on crack propagation of aluminum by molecular dynamics. <i>European Physical Journal B</i> , 2022, 95, 1.	0.6	0
16	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.	5.6	6
17	Molecular dynamics study of fatigue behavior of nickel single-crystal under cyclic shear deformation and hyper-gravity condition. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2022, 30, 055006.	0.8	3
18	Pt-based intermetallic compounds with tunable activity and selectivity toward hydrogen production from formic acid. <i>Applied Surface Science</i> , 2022, 597, 153530.	3.1	7

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19	Effects of Point Defects on the Stable Occupation, Diffusion and Nucleation of Xe and Kr in UO <sub>2</sub> . <i>Metals</i> , 2022, 12, 789.	1.0	1
20	Orientation dependence of shock-induced change of habit plane for the $\frac{1}{2}\langle 111 \rangle$ dislocation loop and plasticity in tungsten. <i>International Journal of Plasticity</i> , 2022, 155, 103329.	4.1	11
21	Effect of crystallographic orientations on shock-induced plasticity for CoCrFeMnNi high-entropy alloy. <i>International Journal of Mechanical Sciences</i> , 2022, 226, 107373.	3.6	21
22	The Role of Grain Boundaries in the Corrosion Process of Fe Surface: Insights from ReaxFF Molecular Dynamic Simulations. <i>Metals</i> , 2022, 12, 876.	1.0	4
23	Analysis of fatigue crack propagation mechanism of Ni <sub>3</sub> Al under supergravity at atomic size. <i>AIP Advances</i> , 2022, 12, 065223.	0.6	1
24	The Microstructural Evolution of Nickel Single Crystal under Cyclic Deformation and Hyper-Gravity Conditions: A Molecular Dynamics Study. <i>Metals</i> , 2022, 12, 1128.	1.0	3
25	Unraveling the mechanisms of aluminum solidification under hyper-gravity condition from molecular dynamics simulations. <i>Journal of Applied Physics</i> , 2022, 132, .	1.1	3
26	Unsaturated coordination polymer frameworks as multifunctional sulfur reservoir for fast and durable lithium-sulfur batteries. <i>Nano Energy</i> , 2021, 79, 105393.	8.2	37
27	A two-dimensional MoS <sub>2</sub> /SnS heterostructure for promising photocatalytic performance: First-principles investigations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 126, 114453.	1.3	17
28	Assessing Atomic-Phase Transitions and Ion Transport in Layered Na <sub>x</sub> NiO <sub>2</sub> (x ≈ 0.67) Cathode Materials. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4930-4937.	1.5	1
29	Strain and interfacial engineering to accelerate hydrogen evolution reaction of two-dimensional phosphorus carbide*. <i>Chinese Physics B</i> , 2021, 30, 027101.	0.7	2
30	The interactions between nitrogen oxides and $\frac{1}{2}\langle 111 \rangle$ -uranium surface. <i>Nuclear Materials and Energy</i> , 2021, 26, 100945.	0.6	0
31	High-Throughput One-Photon Excitation Pathway in OD/3D Heterojunctions for Visible-Light Driven Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2021, 31, 2100816.	7.8	92
32	Effects of Se substitution on the Schottky barrier of a MoS <sub>x</sub> /Se <sub>(2-x)</sub> /graphene heterostructure. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 265302.	1.3	5
33	One-Photon Excitation Pathway: High-Throughput One-Photon Excitation Pathway in OD/3D Heterojunctions for Visible-Light Driven Hydrogen Evolution (Adv. Funct. Mater. 18/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170125.	7.8	1
34	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
35	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
36	Atomistic insights into interactions between oxygen and $\frac{1}{2}\langle 111 \rangle$ -Zr (101-1) surface. <i>Nuclear Materials and Energy</i> , 2021, 27, 100974.	0.6	0

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37	Amorphous B-doped graphitic carbon nitride quantum dots with high photoluminescence quantum yield of near 90% and their sensitive detection of Fe <sup>2+</sup> /Cd <sup>2+</sup> . Science China Materials, 2021, 64, 3037-3050.	3.5	17
38	Molecular dynamics simulation of shock wave propagation and spall failure in single crystal copper under cylindrical impact. Applied Physics Express, 2021, 14, 075504.	1.1	6
39	Predicted Polymeric and Layered Covalent Networks in Transition Metal Pentazolate M(cyclo-N <sub>5</sub> ) <sub>x</sub> Phases at Ambient and High Pressure: Up to 20 Nitrogen Atoms per Metal. Chemistry of Materials, 2021, 33, 5298-5307.	3.2	10
40	2D Amorphous CoO Incorporated g-C <sub>3</sub> N <sub>4</sub> Nanotubes for Improved Photocatalytic Performance. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100254.	1.2	6
41	Effects of vacancies on plasticity and phase transformation in single-crystal iron under shock loading. Journal of Applied Physics, 2021, 130, .	1.1	6
42	High-throughput computational design for 2D van der Waals functional heterostructures: Fragility of Anderson's rule and beyond. Applied Physics Letters, 2021, 119, .	1.5	24
43	Unraveling TM Migration Mechanisms in LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> by Modeling and Experimental Studies. Nano Letters, 2021, 21, 6875-6881.	4.5	23
44	Effects of electric field and strain on the Schottky barrier of the bilayer van der Waals heterostructures of graphene and pure/hydrogenated PC <sub>3</sub> monolayer. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 133, 114785.	1.3	3
45	Molecular dynamics simulation of the behavior of typical radiation defects under stress gradient field in tungsten. Journal of Applied Physics, 2021, 130, .	1.1	6
46	Formation mechanism of interstitial dislocation loops from irradiation-induced C15 clusters in tungsten. Physical Review Materials, 2021, 5, .	0.9	3
47	Monolayer PtTe <sub>2</sub> : A promising candidate for NO <sub>2</sub> sensor with ultrahigh sensitivity and selectivity. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114925.	1.3	11
48	Effect of transition metal atoms on the stacking fault energy and ductility of TiC. Ceramics International, 2021, 47, 29386-29391.	2.3	8
49	Atomistic simulation of the surface configuration of the Ni-Re cluster. Thin Solid Films, 2021, 737, 138938.	0.8	1
50	Molecular dynamics simulation of primary radiation damage in W-Ta alloys: Effect of tantalum. Journal of Nuclear Materials, 2021, 556, 153162.	1.3	17
51	Finnis-Sinclair-type potential for atomistic simulation of defects behaviour in V-Ti-Ta ternary system. Journal of Nuclear Materials, 2021, 557, 153231.	1.3	11
52	Generalized Synthetic Strategy for Amorphous Transition Metal Oxide-Based 2D Heterojunctions with Superb Photocatalytic Hydrogen and Oxygen Evolution. Advanced Functional Materials, 2021, 31, 2009230.	7.8	97
53	Study on the effect of non-centrosymmetric orientation in shocked and ramp compressed $\hat{\epsilon}$ iron. Materials Today Communications, 2021, 29, 102893.	0.9	1
54	Dipole Engineering of Two-Dimensional van der Waals Heterostructures for Enhanced Power-Conversion Efficiency: The Case of Janus Ga <sub>2</sub> SeS. Physical Review Applied, 2021, 16, .	1.5	39

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55	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.	1.6	6
56	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.	2.8	45
57	Ultrahigh Sensitivity and Selectivity of Pentagonal SiC <sub>2</sub> Monolayer Gas Sensors: The Synergistic Effect of Composition and Structural Topology. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900445.	0.7	11
58	Atomistic simulations of the interaction between transmutation-produced Re and grain boundaries in tungsten. <i>Computational Materials Science</i> , 2020, 173, 109412.	1.4	9
59	Algorithm for generating irreducible site-occupancy configurations. <i>Physical Review B</i> , 2020, 102, .	1.1	16
60	Interatomic potentials and defect properties of Fe-Cr-Al alloys. <i>Journal of Nuclear Materials</i> , 2020, 541, 152421.	1.3	18
61	The phase transition of rapidly super-cooled Tungsten under 100 GPa. <i>Chemical Physics Letters</i> , 2020, 755, 137789.	1.2	2
62	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.	1.1	5
63	Chemistry of Defects in Crystalline Na <sub>2</sub> Se: Implications for the Na-Se Battery. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27930-27936.	1.5	11
64	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.	2.8	5
65	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.	6.6	72
66	Molecular dynamics simulation of cylindrically converging shock response in single crystal Cu. <i>Computational Materials Science</i> , 2020, 183, 109845.	1.4	6
67	Molecular dynamics simulations of the diffusion characteristics on the Fe-W interfaces system. <i>Fusion Engineering and Design</i> , 2020, 159, 111850.	1.0	11
68	Dynamic self-diffusion behaviors of nickel adatoms on clusters with Wulff shape. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050015.	1.0	2
69	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.	3.8	124
70	Structural damage and phase stability of Al <sub>0.3</sub> CoCrFeNi high entropy alloy under high temperature ion irradiation. <i>Acta Materialia</i> , 2020, 188, 1-15.	3.8	83
71	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.	0.8	1
72	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.	14.4	45

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73	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.	0.8	3
74	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.	1.4	18
75	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.	1.3	6
76	Double-Layer Honeycomb AIP: A Promising Anode Material for Li-, Na-, and K-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2978-2986.	1.5	11
77	A design rule for two-dimensional van der Waals heterostructures with unconventional band alignments. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3037-3047.	1.3	19
78	Interatomic potentials of W-V and W-Mo binary systems for point defects studies. <i>Journal of Nuclear Materials</i> , 2020, 531, 152020.	1.3	18
79	Atomic simulation of mechanical properties of irradiated iron. <i>International Journal of Modern Physics C</i> , 2020, 31, 2050027.	0.8	1
80	Evaluation of tungsten interatomic potentials for radiation damage simulations. <i>Tungsten</i> , 2020, 2, 3-14.	2.0	12
81	Molecular dynamics simulation of the interactions between screw dislocation and stacking fault tetrahedron in Fe-10Ni-20Cr and Ni. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2020, 28, 075002.	0.8	3
82	Strain and Electric Field Controllable Schottky Barriers and Contact Types in Graphene-MoTe <sub>2</sub> van der Waals Heterostructure. <i>Nanoscale Research Letters</i> , 2020, 15, 180.	3.1	15
83	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
84	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.	1.7	4
85	Atomistic insights into the reaction mechanism of nanostructured LiI: Implications for rechargeable Li-I <sub>2</sub> batteries. <i>Energy Storage Materials</i> , 2019, 17, 211-219.	9.5	10
86	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
87	Theoretical insights into nitrogen fixation on Ti <sub>2</sub> C and Ti <sub>2</sub> CO <sub>2</sub> in a lithium-nitrogen battery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19950-19960.	5.2	21
88	Interactions of plasticity and phase transformation under shock in iron bicrystals. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	7
89	Strategy to boost catalytic activity of polymeric carbon nitride: synergistic effect of controllable <i>in situ</i> surface engineering and morphology. <i>Nanoscale</i> , 2019, 11, 16393-16405.	2.8	45
90	Monolayer Phosphorene-Carbon Nanotube Heterostructures for Photocatalysis: Analysis by Density Functional Theory. <i>Nanoscale Research Letters</i> , 2019, 14, 233.	3.1	10

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91	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.	1.3	28
92	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
93	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
94	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
95	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.	1.3	23
96	Influence of Irradiation on Mechanical Properties of Nickel. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-6.	1.0	0
97	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
98	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
99	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.	5.6	61
100	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.	1.3	18
101	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
102	Doping-induced enhancement of crystallinity in polymeric carbon nitride nanosheets to improve their visible-light photocatalytic activity. <i>Nanoscale</i> , 2019, 11, 6876-6885.	2.8	128
103	Doping-Induced Hydrogen-Bond Engineering in Polymeric Carbon Nitride To Significantly Boost the Photocatalytic H <sub>2</sub> Evolution Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17341-17349.	4.0	71
104	Understanding the release of helium atoms from nanochannel tungsten: a molecular dynamics simulation. <i>Nuclear Fusion</i> , 2019, 59, 076020.	1.6	13
105	Effect of MCl <sub>3</sub> (M=La, U or Sc) component on the local structures and transport properties of LiCl-KCl-MCl <sub>3</sub> eutectic: A molecular dynamics study. <i>Electrochimica Acta</i> , 2019, 306, 366-376.	2.6	18
106	Development of a Ni-Mo interatomic potential for irradiation simulation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 045009.	0.8	4
107	Development of the interatomic potentials for W-Ta system. <i>Computational Materials Science</i> , 2019, 163, 91-99.	1.4	26
108	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.	1.7	16

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109	Intrinsic strain-induced segregation in multiply twinned Cuâ€“Pt icosahedra. Physical Chemistry Chemical Physics, 2019, 21, 4802-4809.	1.3	9
110	Electrostatic Potential Anomaly in 2D Janus Transition Metal Dichalcogenides. Annalen Der Physik, 2019, 531, 1900369.	0.9	13
111	Penta-Graphene as a Potential Gas Sensor for NOx Detection. Nanoscale Research Letters, 2019, 14, 306.	3.1	52
112	Twoâ€“Dimensional GaX/SnS <sub>2</sub> (X=S, Se) van der Waals Heterostructures for Photovoltaic Application: Heteroatom Doping Strategy to Boost Power Conversion Efficiency. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800565.	1.2	35
113	Atomistic studies of shock-induced plasticity and phase transition in iron-based single crystal with edge dislocation. International Journal of Plasticity, 2019, 114, 215-226.	4.1	40
114	Revealing the Reaction Mechanism of Sodium Selenide Confined within a Single-Walled Carbon Nanotube: Implications for Naâ€“Se Batteries. ACS Applied Materials & Interfaces, 2019, 11, 4995-5002.	4.0	27
115	Isotype heterojunction g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanosheets as 2D support to highly dispersed OD metal oxide nanoparticles: Generalized self-assembly and its high photocatalytic activity. Journal Physics D: Applied Physics, 2019, 52, 025501.	1.3	46
116	The effect of Mo addition on structure and glass forming ability of Ni-Zr alloys. Journal of Alloys and Compounds, 2019, 775, 1184-1198.	2.8	30
117	Molecular dynamics simulation of alloying during sintering of Li and Pb metallic nanoparticles. Computational Materials Science, 2019, 156, 47-55.	1.4	19
118	Insights Into Interfacial Interaction and Its Influence on the Electronic and Optical Properties of Twoâ€“Dimensional WS <sub>2</sub> /TX <sub>2</sub> CO <sub>2</sub> (X=Ti, Zr) van der Waals Heterostructures. Physica Status Solidi (B): Basic Research, 2019, 256, 1800377.	0.7	2
119	Effect of temperature on the corrosion behaviors of 304 stainless steel in static liquid lithium. Fusion Engineering and Design, 2018, 128, 75-81.	1.0	23
120	Self-assembled hierarchical carbon/g-C <sub>3</sub> N <sub>4</sub> composite with high photocatalytic activity. Journal Physics D: Applied Physics, 2018, 51, 135501.	1.3	12
121	Evolution of helium bubbles below different tungsten surfaces under neutron irradiation and non-irradiation conditions. Computational Materials Science, 2018, 148, 242-248.	1.4	16
122	Interfacial Interaction between Boron Cluster and Metal Oxide Surface and Its Effects: A Case Study of B <sub>20</sub> /Ag <sub>3</sub> PO <sub>4</sub> van der Waals Heterostructure. Journal of Physical Chemistry C, 2018, 122, 6151-6158.	1.5	7
123	Wetting characteristics of lithium droplet on iron surfaces in atomic scale: A molecular dynamics simulation. Computational Materials Science, 2018, 149, 435-441.	1.4	12
124	Revealing reaction mechanisms of nanoconfined Li <sub>2</sub> S: implications for lithiumâ€“sulfur batteries. Physical Chemistry Chemical Physics, 2018, 20, 11713-11721.	1.3	18
125	New interatomic potentials of W, Re and W-Re alloy for radiation defects. Journal of Nuclear Materials, 2018, 502, 141-153.	1.3	57
126	Effect of grain boundaries on shock-induced phase transformation in iron bicrystals. Journal of Applied Physics, 2018, 123, .	1.1	25



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127	A first-principles investigation of the ScO <sub>2</sub> monolayer as the cathode material for alkali metal-ion batteries. Journal of Materials Chemistry A, 2018, 6, 3171-3180.	5.2	20
128	Oxygen adsorption and diffusion on $\hat{\Gamma}$ -U(O <sup>2+</sup> ) surface: Effect of titanium. Computational Materials Science, 2018, 144, 85-91.	1.4	13
129	An <i>ab initio</i> study for probing iodization reactions on metallic anode surfaces of Li <sup>+</sup> batteries. Journal of Materials Chemistry A, 2018, 6, 7807-7814.	5.2	11
130	Molecular dynamics simulations of the characteristics of Mo/Ti interfaces. Computational Materials Science, 2018, 141, 293-301.	1.4	22
131	Local identification of chemical ordering: Extension, implementation, and application of the common neighbor analysis for binary systems. Computational Materials Science, 2018, 143, 195-205.	1.4	8
132	Interfacial Interactions in Monolayer and Few-Layer SnS/CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite van der Waals Heterostructures and Their Effects on Electronic and Optical Properties. ChemPhysChem, 2018, 19, 291-299.	1.0	12
133	Investigation of the interstitial oxygen behaviors in vanadium alloy: A first-principles study. Current Applied Physics, 2018, 18, 183-190.	1.1	12
134	Does the Mg <sup>+</sup> Battery Suffer Severe Shuttle Effect?. Journal of Physical Chemistry C, 2018, 122, 28518-28527.	1.5	9
135	Theory-Driven Heterojunction Photocatalyst Design with Continuously Adjustable Band Gap Materials. Journal of Physical Chemistry C, 2018, 122, 28065-28074.	1.5	20
136	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
137	Facile <i>in situ</i> construction of mediator-free direct Z-scheme g-C <sub>3</sub> N <sub>4</sub> /CeO <sub>2</sub> heterojunctions with highly efficient photocatalytic activity. Journal Physics D: Applied Physics, 2018, 51, 275302.	1.3	110
138	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
139	Dispersive and covalent interactions in all-carbon heterostructures consisting of penta-graphene and fullerene: topological effect. Journal Physics D: Applied Physics, 2018, 51, 305301.	1.3	12
140	In-situ construction of 2D direct Z-scheme g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> homojunction with high photocatalytic activity. Journal of Materials Science, 2018, 53, 15882-15894.	1.7	52
141	Substrate-induced magnetism and topological phase transition in silicene. Nanoscale, 2018, 10, 14667-14677.	2.8	10
142	Simultaneous dispersive and covalent monolayer MoS <sub>2</sub> /TiO <sub>2</sub> cluster heterostructures: Insights into their enhanced photocatalytic activity. Superlattices and Microstructures, 2018, 121, 64-74.	1.4	0
143	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
144	Theoretical prediction of LiScO <sub>2</sub> nanosheets as a cathode material for Li <sup>+</sup> batteries. Physical Chemistry Chemical Physics, 2018, 20, 22351-22358.	1.3	7

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145	Effect of neon on the hydrogen behaviors in tungsten: A first-principles study. <i>Journal of Nuclear Materials</i> , 2018, 510, 492-498.	1.3	3
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