

Alice Hu

List of Publications by Citations

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

51
papers

2,243
citations

20
h-index

47
g-index

53
ext. papers

3,103
ext. citations

6.5
avg, IF

5.18
L-index

#	Paper	IF	Citations
51	Multicomponent intermetallic nanoparticles and superb mechanical behaviors of complex alloys. <i>Science</i> , 2018 , 362, 933-937	33.3	513
50	Heterogeneous precipitation behavior and stacking-fault-mediated deformation in a CoCrNi-based medium-entropy alloy. <i>Acta Materialia</i> , 2017 , 138, 72-82	8.4	286
49	Outstanding tensile properties of a precipitation-strengthened FeCoNiCrTi0.2 high-entropy alloy at room and cryogenic temperatures. <i>Acta Materialia</i> , 2019 , 165, 228-240	8.4	178
48	Lattice distortion in a strong and ductile refractory high-entropy alloy. <i>Acta Materialia</i> , 2018 , 160, 158-172	8.4	173
47	The origin of negative stacking fault energies and nano-twin formation in face-centered cubic high entropy alloys. <i>Scripta Materialia</i> , 2017 , 130, 96-99	5.6	143
46	The S-functionalized TiC MXene as a high capacity electrode material for Na-ion batteries: a DFT study. <i>Nanoscale</i> , 2018 , 10, 3385-3392	7.7	89
45	Platinum-trimer decorated cobalt-palladium core-shell nanocatalyst with promising performance for oxygen reduction reaction. <i>Nature Communications</i> , 2019 , 10, 440	17.4	76
44	Exceptional Optical Absorption of Buckled Arsenene Covering a Broad Spectral Range by Molecular Doping. <i>ACS Omega</i> , 2018 , 3, 8514-8520	3.9	73
43	Few-Layer PdSe Sheets: Promising Thermoelectric Materials Driven by High Valley Convergence. <i>ACS Omega</i> , 2018 , 3, 5971-5979	3.9	61
42	Atomic-scale distorted lattice in chemically disordered equimolar complex alloys. <i>Acta Materialia</i> , 2018 , 150, 182-194	8.4	59
41	Point Defects in Blue Phosphorene. <i>Chemistry of Materials</i> , 2019 , 31, 8129-8135	9.6	56
40	Theoretical investigation of zirconium carbide MXenes as prospective high capacity anode materials for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13652-13660	13	56
39	First-principles calculations of the electronic properties of SiC-based bilayer and trilayer heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24726-24734	3.6	46
38	Helium accumulation and bubble formation in FeCoNiCr alloy under high fluence He+ implantation. <i>Journal of Nuclear Materials</i> , 2018 , 501, 208-216	3.3	42
37	Composition evolution of gamma prime nanoparticles in the Ti-doped CoFeCrNi high entropy alloy. <i>Scripta Materialia</i> , 2018 , 148, 42-46	5.6	34
36	Theoretical prediction of MXene-like structured TiC as a high capacity electrode material for Na ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29106-29113	3.6	33
35	Self-propelled droplet-based electricity generation. <i>Nanoscale</i> , 2018 , 10, 23164-23169	7.7	33

34	Achieving large uniform tensile elasticity in microfabricated diamond. <i>Science</i> , 2021 , 371, 76-78	33.3	29
33	In situ nanomechanical characterization of multi-layer MoS membranes: from intraplanar to interplanar fracture. <i>Nanoscale</i> , 2017 , 9, 9119-9128	7.7	28
32	Phase transformation assisted twinning in a face-centered-cubic FeCrNiCoAl _{0.36} high entropy alloy. <i>Acta Materialia</i> , 2019 , 181, 491-500	8.4	20
31	Pt ₃ clusters-decorated Co@Pd and Ni@Pd model core-shell catalyst design for the oxygen reduction reaction: a DFT study. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23326-23335	13	18
30	Modeling hydrogen isotope behavior in fusion plasma-facing components. <i>Journal of Nuclear Materials</i> , 2014 , 446, 56-62	3.3	15
29	How surface roughness affects the angular dependence of the sputtering yield. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 281, 15-20	1.2	14
28	Oxygenated (113) diamond surface for nitrogen-vacancy quantum sensors with preferential alignment and long coherence time from first principles. <i>Carbon</i> , 2019 , 145, 273-280	10.4	13
27	Programming ORR Activity of Ni/NiO @Pd Electrocatalysts via Controlling Depth of Surface-Decorated Atomic Pt Clusters. <i>ACS Omega</i> , 2018 , 3, 8733-8744	3.9	13
26	The influence of dilute aluminum and molybdenum on stacking fault and twin formation in FeNiCoCr-based high entropy alloys based on density functional theory. <i>Scientific Reports</i> , 2019 , 9, 10940	4.9	12
25	Molecular doping of blue phosphorene: a first-principles investigation. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 055501	1.8	12
24	Giant shift upon strain on the fluorescence spectrum of VNNB color centers in h-BN. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	12
23	Atomic Configuration of Point Defect Clusters in Ion-Irradiated Silicon Carbide. <i>Scientific Reports</i> , 2017 , 7, 14635	4.9	10
22	X-ray Absorption Spectroscopy and In-Operando Neutron Diffraction Studies on Local Structure Fading Induced Irreversibility in a 18 650 Cell with P ₂ N ₁₂ /3Fe ₁ /3Mn ₂ /3O ₂ Cathode in a Long Cycle Test. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12623-12632	3.8	8
21	Nanoisozymes: The Origin behind Pristine CeO as Enzyme Mimetics. <i>Chemistry - A European Journal</i> , 2020 , 26, 10598-10606	4.8	7
20	Atomic scale Pt decoration promises oxygen reduction properties of Co@Pd nanocatalysts in alkaline electrolytes for 310k redox cycles. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 946-957	5.8	7
19	Rapid crystal growth of bimetallic PdPt nanocrystals with surface atomic Pt cluster decoration provides promising oxygen reduction activity. <i>RSC Advances</i> , 2017 , 7, 55110-55120	3.7	7
18	Fracture of a silicon nanowire at ultra-large elastic strain. <i>Acta Mechanica</i> , 2019 , 230, 1441-1449	2.1	7
17	Collaboration between a Pt-dimer and neighboring Co-Pd atoms triggers efficient pathways for oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 1822-1834	3.6	6

16	Crystal shape controlled H storage rate in nanoporous carbon composite with ultra-fine Pt nanoparticle. <i>Scientific Reports</i> , 2017 , 7, 42438	4.9	5
15	Cyclability evaluation on Si based Negative Electrode in Lithium ion Battery by Graphite Phase Evolution: an operando X-ray diffraction study. <i>Scientific Reports</i> , 2019 , 9, 1299	4.9	5
14	Atomic structure of nano voids in irradiated 3C-SiC. <i>Journal of Nuclear Materials</i> , 2018 , 498, 71-75	3.3	5
13	A study of strain-induced indirect-direct bandgap transition for silicon nanowire applications. <i>Journal of Applied Physics</i> , 2019 , 125, 082520	2.5	5
12	Predicting hydrogen isotope inventory in plasma-facing components during normal and abnormal operations in fusion devices. <i>Journal of Nuclear Materials</i> , 2015 , 465, 582-589	3.3	5
11	First-principles investigation of water adsorption on FeCrAl (1 1 0) surfaces. <i>Applied Surface Science</i> , 2019 , 465, 259-266	6.7	5
10	Elemental Phase Partitioning in the δ -NiCoFeCrNb High Entropy Alloy. <i>Entropy</i> , 2018 , 20,	2.8	5
9	Microscopic origin of black spot defect swelling in single crystal 3C-SiC. <i>Journal of Nuclear Materials</i> , 2018 , 508, 292-298	3.3	4
8	From symmetry to entropy: Crystal entropy difference strongly affects early stage phase transformation. <i>Applied Physics Letters</i> , 2019 , 115, 264103	3.4	3
7	Tri-atomic Pt clusters induce effective pathways in a Co-Pd nanocatalyst surface for a high-performance oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 18012-18025 ^{3.6}	3.6	3
6	Deep Ultra-Strength-Induced Band Structure Evolution in Silicon Nanowires. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15780-15785	3.8	3
5	Modified Embedded Atom Method Potential for Modeling the Thermodynamic Properties of High Thermal Conductivity Beryllium Oxide. <i>ACS Omega</i> , 2019 , 4, 6339-6346	3.9	2
4	Interfacial atomic Ni tetragon intercalation in a NiO ₂ -to-Pd hetero-structure triggers superior HER activity to the Pt catalyst. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 12019-12028	13	2
3	Model to estimate fractal dimension for ion-bombarded materials. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 323, 82-86	1.2	1
2	An optimized random structures generator governed by chemical short-range order for multi-component solid solutions. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 085007	2	1
1	Finite element modeling of superplastic co-doped yttria-stabilized tetragonal-zirconia polycrystals. <i>Journal of Zhejiang University: Science A</i> , 2016 , 17, 989-999	2.1	