

Alice Hu

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,980
citations

279487

23
h-index

189595

50
g-index

53
all docs

53
docs citations

53
times ranked

3497
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.3	16
2	Tri-atomic Pt clusters induce effective pathways in a Co-core-Pd-shell nanocatalyst surface for a high-performance oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18012-18025.	1.3	5
3	Achieving large uniform tensile elasticity in microfabricated diamond. <i>Science</i> , 2021, 371, 76-78.	6.0	95
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.	5.2	19
5	Molecular doping of blue phosphorene: a first-principles investigation. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 055501.	0.7	14
6	Giant shift upon strain on the fluorescence spectrum of VNNB color centers in h-BN. <i>Npj Quantum Information</i> , 2020, 6, .	2.8	25
7	Nanoisozymes: The Origin behind Pristine CeO ₂ as Enzyme Mimetics. <i>Chemistry - A European Journal</i> , 2020, 26, 10598-10606.	1.7	16
8	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.	1.6	16
9	Phase transformation assisted twinning in a face-centered-cubic FeCrNiCoAl high entropy alloy. <i>Acta Materialia</i> , 2019, 181, 491-500.	3.8	37
10	A study of strain-induced indirect-direct bandgap transition for silicon nanowire applications. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	10
11	Point Defects in Blue Phosphorene. <i>Chemistry of Materials</i> , 2019, 31, 8129-8135.	3.2	86
12	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.	5.4	24
13	Platinum-trimer decorated cobalt-palladium core-shell nanocatalyst with promising performance for oxygen reduction reaction. <i>Nature Communications</i> , 2019, 10, 440.	5.8	115
14	Modified Embedded Atom Method Potential for Modeling the Thermodynamic Properties of High Thermal Conductivity Beryllium Oxide. <i>ACS Omega</i> , 2019, 4, 6339-6346.	1.6	10
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.	1.6	5
16	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.	0.8	2
17	From symmetry to entropy: Crystal entropy difference strongly affects early stage phase transformation. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	6
18	Outstanding tensile properties of a precipitation-strengthened FeCoNiCrTi _{0.2} high-entropy alloy at room and cryogenic temperatures. <i>Acta Materialia</i> , 2019, 165, 228-240.	3.8	373

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19	First-principles investigation of water adsorption on FeCrAl (111) surfaces. <i>Applied Surface Science</i> , 2019, 465, 259-266.	3.1	8
20	Fracture of a silicon nanowire at ultra-large elastic strain. <i>Acta Mechanica</i> , 2019, 230, 1441-1449.	1.1	10
21	Atomic-scale distorted lattice in chemically disordered equimolar complex alloys. <i>Acta Materialia</i> , 2018, 150, 182-194.	3.8	89
22	Helium accumulation and bubble formation in FeCoNiCr alloy under high fluence He+ implantation. <i>Journal of Nuclear Materials</i> , 2018, 501, 208-216.	1.3	65
23	Composition evolution of gamma prime nanoparticles in the Ti-doped CoFeCrNi high entropy alloy. <i>Scripta Materialia</i> , 2018, 148, 42-46.	2.6	54
24	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.	2.5	13
25	The S-functionalized Ti ₃ C ₂ MXene as a high capacity electrode material for Na-ion batteries: a DFT study. <i>Nanoscale</i> , 2018, 10, 3385-3392.	2.8	139
26	Atomic structure of nano voids in irradiated 3C-SiC. <i>Journal of Nuclear Materials</i> , 2018, 498, 71-75.	1.3	5
27	Self-propelled droplet-based electricity generation. <i>Nanoscale</i> , 2018, 10, 23164-23169.	2.8	49
28	Multicomponent intermetallic nanoparticles and superb mechanical behaviors of complex alloys. <i>Science</i> , 2018, 362, 933-937.	6.0	950
29	Elemental Phase Partitioning in the $\hat{\Gamma}^3$ - $\hat{\Gamma}^3$ Ni ₂ CoFeCrNb _{0.15} High Entropy Alloy. <i>Entropy</i> , 2018, 20, 910.	1.1	10
30	First-principles calculations of the electronic properties of SiC-based bilayer and trilayer heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24726-24734.	1.3	77
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.	5.2	26
32	Lattice distortion in a strong and ductile refractory high-entropy alloy. <i>Acta Materialia</i> , 2018, 160, 158-172.	3.8	325
33	Microscopic origin of black spot defect swelling in single crystal 3C-SiC. <i>Journal of Nuclear Materials</i> , 2018, 508, 292-298.	1.3	6
34	Deep Ultra-Strength-Induced Band Structure Evolution in Silicon Nanowires. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15780-15785.	1.5	5
35	Exceptional Optical Absorption of Buckled Arsenene Covering a Broad Spectral Range by Molecular Doping. <i>ACS Omega</i> , 2018, 3, 8514-8520.	1.6	107
36	Programming ORR Activity of Ni/NiO _x @Pd Electrocatalysts via Controlling Depth of Surface-Decorated Atomic Pt Clusters. <i>ACS Omega</i> , 2018, 3, 8733-8744.	1.6	27

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37	X-ray Absorption Spectroscopy and In-Operando Neutron Diffraction Studies on Local Structure Fading Induced Irreversibility in a 18Å^2 Cell with $\text{P}_2\text{Na}_2/\text{3Fe}_1/\text{3Mn}_2/\text{3O}_2$ Cathode in a Long Cycle Test. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12623-12632.	1.5	10
38	Few-Layer PdSe_2 Sheets: Promising Thermoelectric Materials Driven by High Valley Convergence. <i>ACS Omega</i> , 2018, 3, 5971-5979.	1.6	87
39	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.	5.2	111
40	Crystal shape controlled H_2 storage rate in nanoporous carbon composite with ultra-fine Pt nanoparticle. <i>Scientific Reports</i> , 2017, 7, 42438.	1.6	6
41	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.	2.6	223
42	In situ nanomechanical characterization of multi-layer MoS_2 membranes: from intraplanar to interplanar fracture. <i>Nanoscale</i> , 2017, 9, 9119-9128.	2.8	39
43	Theoretical prediction of MXene-like structured Ti_3C_4 as a high capacity electrode material for Na ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29106-29113.	1.3	51
44	Heterogeneous precipitation behavior and stacking-fault-mediated deformation in a CoCrNi-based medium-entropy alloy. <i>Acta Materialia</i> , 2017, 138, 72-82.	3.8	553
45	Atomic Configuration of Point Defect Clusters in Ion-Irradiated Silicon Carbide. <i>Scientific Reports</i> , 2017, 7, 14635.	1.6	12
46	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.	1.7	10
47	Finite element modeling of superplastic co-doped yttria-stabilized tetragonal-zirconia polycrystals. <i>Journal of Zhejiang University: Science A</i> , 2016, 17, 989-999.	1.3	0
48	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.	1.3	6
49	Model to estimate fractal dimension for ion-bombarded materials. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 323, 82-86.	0.6	1
50	Modeling hydrogen isotope behavior in fusion plasma-facing components. <i>Journal of Nuclear Materials</i> , 2014, 446, 56-62.	1.3	17
51	How surface roughness affects the angular dependence of the sputtering yield. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 281, 15-20.	0.6	15