

Alice Hu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2817853/alice-hu-publications-by-year.pdf>

Version: 2024-04-19

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.

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	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
50	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, 18012-18023	3.6	3
49	Achieving large uniform tensile elasticity in microfabricated diamond. <i>Science</i> , 2021 , 371, 76-78	33.3	29
48	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
47	Nanoisozymes: The Origin behind Pristine CeO as Enzyme Mimetics. <i>Chemistry - A European Journal</i> , 2020 , 26, 10598-10606	4.8	7
46	Molecular doping of blue phosphorene: a first-principles investigation. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 055501	1.8	12
45	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
44	Point Defects in Blue Phosphorene. <i>Chemistry of Materials</i> , 2019 , 31, 8129-8135	9.6	56
43	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
42	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
41	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
40	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
39	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
38	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
37	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
36	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
35	From symmetry to entropy: Crystal entropy difference strongly affects early stage phase transformation. <i>Applied Physics Letters</i> , 2019 , 115, 264103	3.4	3

34	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	8.4	178
33	First-principles investigation of water adsorption on FeCrAl (1 1 0) surfaces. <i>Applied Surface Science</i> , 2019 , 465, 259-266	6.7	5
32	Fracture of a silicon nanowire at ultra-large elastic strain. <i>Acta Mechanica</i> , 2019 , 230, 1441-1449	2.1	7
31	Atomic-scale distorted lattice in chemically disordered equimolar complex alloys. <i>Acta Materialia</i> , 2018 , 150, 182-194	8.4	59
30	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
29	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
28	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
27	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
26	Atomic structure of nano voids in irradiated 3C-SiC. <i>Journal of Nuclear Materials</i> , 2018 , 498, 71-75	3.3	5
25	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
24	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
23	X-ray Absorption Spectroscopy and In-Operando Neutron Diffraction Studies on Local Structure Fading Induced Irreversibility in a 18 650 Cell with P2Ni ₂ /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
22	Few-Layer PdSe Sheets: Promising Thermoelectric Materials Driven by High Valley Convergence. <i>ACS Omega</i> , 2018 , 3, 5971-5979	3.9	61
21	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
20	Self-propelled droplet-based electricity generation. <i>Nanoscale</i> , 2018 , 10, 23164-23169	7.7	33
19	Multicomponent intermetallic nanoparticles and superb mechanical behaviors of complex alloys. <i>Science</i> , 2018 , 362, 933-937	33.3	513
18	Elemental Phase Partitioning in the δ -NiCoFeCrNb High Entropy Alloy. <i>Entropy</i> , 2018 , 20,	2.8	5
17	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

16	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
15	Lattice distortion in a strong and ductile refractory high-entropy alloy. <i>Acta Materialia</i> , 2018 , 160, 158-172	17.4	173
14	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
13	Deep Ultra-Strength-Induced Band Structure Evolution in Silicon Nanowires. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15780-15785	3.8	3
12	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
11	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
10	In situ nanomechanical characterization of multi-layer MoS membranes: from intraplanar to interplanar fracture. <i>Nanoscale</i> , 2017 , 9, 9119-9128	7.7	28
9	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
8	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
7	Atomic Configuration of Point Defect Clusters in Ion-Irradiated Silicon Carbide. <i>Scientific Reports</i> , 2017 , 7, 14635	4.9	10
6	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
5	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	
4	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
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	Modeling hydrogen isotope behavior in fusion plasma-facing components. <i>Journal of Nuclear Materials</i> , 2014 , 446, 56-62	3.3	15
1	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