Hsin-An Chen

List of Publications by Year in Descending Order

25 papers	3,769 citations	13 h-index	27 g-index
27 ext. papers	4,150 ext. citations	10.6 avg, IF	4.82 L-index

#	Paper	IF	Citations
25	A highly distorted ultraelastic chemically complex Elinvar alloy.. *Nature*, **2022**, 602, 251-257	50.4	4
24	Few-layer fluorine-functionalized graphene hole-selective contacts for efficient inverted perovskite solar cells. *Chemical Engineering Journal*, **2022**, 430, 132831	14.7	4
23	Microstructure Maps of Complex Perovskite Materials from Extensive Monte Carlo Sampling Using Machine Learning Enabled Energy Model. *Journal of Physical Chemistry Letters*, **2021**, 12, 3591-3599	6.4	8
22	Surface structures and equilibrium shapes of layered 2D Ruddlesden-Popper perovskite crystals from density functional theory calculations. *Materials Today Communications*, **2021**, 26, 101745	2.5	3
21	Structural and Electronic Properties of Intertwined Defect in Ruddlesden-Popper 2D Perovskites Study Using Density Functional Theory Calculations. *Multiscale Science and Engineering*, **2021**, 3, 205	1.2	
20	Understanding chemical short-range ordering/demixing coupled with lattice distortion in solid solution high entropy alloys. *Acta Materialia*, **2021**, 216, 117140	8.4	10
19	Enhanced sorption of the UV filter 4-methylbenzylidene camphor on aged PET microplastics from both experimental and theoretical perspectives.. *RSC Advances*, **2021**, 11, 32494-32504	3.7	0
18	Suppression of surface defects to achieve hysteresis-free inverted perovskite solar cells via quantum dot passivation. *Journal of Materials Chemistry A*, **2020**, 8, 5263-5274	13	45
17	Atomistic Structures and Energetics of Perovskite Nucleation Pathway During Sequential Deposition Process. *Multiscale Science and Engineering*, **2020**, 2, 227-234	1.2	0
16	A lithium passivated MoO nanobelt decorated polypropylene separator for fast-charging long-life Li-S batteries. *Nanoscale*, **2019**, 11, 2892-2900	7.7	24
15	Artificial Neural Network Model for Atomistic Simulations of ({rm {Sb/MoS}_{2}}) van der Waals Heterostructures. *Multiscale Science and Engineering*, **2019**, 1, 119-129	1.2	7
14	Fast and Accurate Artificial Neural Network Potential Model for MAPbI Perovskite Materials. *ACS Omega*, **2019**, 4, 10950-10959	3.9	17
13	Multi-layer elemental 2D materials: antimonene, germanene and stanene grown directly on molybdenum disulfides. *Semiconductor Science and Technology*, **2019**, 34, 105020	1.8	12
12	Mitigating Metal Dendrite Formation in Lithium-Sulfur Batteries via Morphology-Tunable Graphene Oxide Interfaces. *ACS Applied Materials & Interfaces*, **2019**, 11, 2060-2070	9.5	12
11	Advanced rechargeable aluminium ion battery with a high-quality natural graphite cathode. *Nature Communications*, **2017**, 8, 14283	17.4	358
10	Wavelength-dependent optical transition mechanisms for light-harvesting of perovskite MAPbI3 solar cells using first-principles calculations. *Journal of Materials Chemistry C*, **2016**, 4, 5248-5254	7.1	9
9	Highly active and stable hybrid catalyst of cobalt-doped FeS2 nanosheets-carbon nanotubes for hydrogen evolution reaction. *Journal of the American Chemical Society*, **2015**, 137, 1587-92	16.4	699

List of Publications

8	Photoluminescence quenching of graphene oxide by metal ions in aqueous media. *Carbon*, **2015**, 82, 24-30	10.4	21
7	Atomic-scale interfacial band mapping across vertically phased-separated polymer/fullerene hybrid solar cells. *Nano Letters*, **2013**, 13, 2387-92	11.5	46
6	FeS2 nanocrystal ink as a catalytic electrode for dye-sensitized solar cells. *Angewandte Chemie - International Edition*, **2013**, 52, 6694-8	16.4	212
5	FeS2 Nanocrystal Ink as a Catalytic Electrode for Dye-Sensitized Solar Cells. *Angewandte Chemie*, **2013**, 125, 6826-6830	3.6	22
4	Self-encapsulated doping of n-type graphene transistors with extended air stability. *ACS Nano*, **2012**, 6, 6215-21	16.7	65
3	Tunable Photoluminescence from Graphene Oxide. *Angewandte Chemie*, **2012**, 124, 6766-6770	3.6	28
2	Tunable photoluminescence from graphene oxide. *Angewandte Chemie - International Edition*, **2012**, 51, 6662-6	16.4	520
1	Blue photoluminescence from chemically derived graphene oxide. *Advanced Materials*, **2010**, 22, 505-9	24	1643