Shi-Hsin Lin

List of Publications by Year
in descending order

26	1,264	516710 16	642732 23
papers	citations	h-index	g-index

26	26	26	2472
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis of electronic structure and phonon dispersion in MoS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>, MoSe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>, WS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	3.2	343
2	Highâ€Sulfurâ€Vacancy Amorphous Molybdenum Sulfide as a High Current Electrocatalyst in Hydrogen Evolution. Small, 2016, 12, 5530-5537.	10.0	177
3	Metallic VS₂ Monolayer Polytypes as Potential Sodium-Ion Battery Anode via ab Initio Random Structure Searching. ACS Applied Materials & Interfaces, 2016, 8, 18754-18762.	8.0	155
4	A first-principles examination of conducting monolayer 1Tâ€²-MX₂(M = Mo, W; X = S, Se, Te): promising catalysts for hydrogen evolution reaction and its enhancement by strain. Physical Chemistry Chemical Physics, 2015, 17, 21702-21708.	2.8	117
5	Orbital Ordering and Jahn-Teller Distortion in Perovskite RuthenateSrRuO3. Physical Review Letters, 2006, 97, 067002.	7.8	84
6	Li adsorption, hydrogen storage and dissociation using monolayer MoS₂: an ab initio random structure searching approach. Physical Chemistry Chemical Physics, 2015, 17, 11367-11374.	2.8	65
7	Activating and tuning basal planes of MoO₂, MoS₂, and MoSe₂ for hydrogen evolution reaction. Physical Chemistry Chemical Physics, 2015, 17, 29305-29310.	2.8	60
8	Towards the ionic limit of two-dimensional materials: monolayer alkaline earth and transition metal halides. Physical Chemistry Chemical Physics, 2014, 16, 20763-20771.	2.8	40
9	Discovery and Facile Synthesis of a New Silicon Based Family as Efficient Hydrogen Evolution Reaction Catalysts: A Computational and Experimental Investigation of Metal Monosilicides. Small, 2021, 17, e2006153.	10.0	31
10	Formation of Multiple-Flux-Quantum Vortices in Mesoscopic Superconductors from Simulations of Calorimetric, Magnetic, and Transport Properties. Physical Review Letters, 2011, 107, 057002.	7.8	26
11	MoS_x-coated NbS₂ nanoflakes grown on glass carbon: an advanced electrocatalyst for the hydrogen evolution reaction. Nanoscale, 2018, 10, 3444-3450.	5.6	24
12	First-principles investigation of the hydrogen evolution reaction of transition metal phosphides CrP, MnP, FeP, CoP, and NiP. Physical Chemistry Chemical Physics, 2021, 23, 2305-2312.	2.8	24
13	Two-dimensional MTe2 (M = Co, Fe, Mn, Sc, Ti) transition metal tellurides as sodium ion battery anode materials: Density functional theory calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2781-2786.	2.1	21
14	Auger width and branching ratios for Be-like1s2s22p3Poand1s2s2p23S,3P,3Dresonances and photoionization of Be from1s22s2p3Po. Physical Review A, 2001, 64, .	2.5	20
15	First-principles investigation of the hydrogen evolution reaction on different surfaces of pyrites MnS₂, FeS₂, CoS₂, NiS₂. Physical Chemistry Chemical Physics, 2019, 21, 21561-21567.	2.8	20
16	Role of carrier-transfer in the optical nonlinearity of graphene/Bi₂Te₃ heterojunctions. Nanoscale, 2020, 12, 16956-16966.	5.6	20
17	Topological metal and noncentrosymmetric superconductor Î±-BiPd as an efficient candidate for the hydrogen evolution reaction. Materials Chemistry Frontiers, 2019, 3, 2184-2189.	5.9	11
18	Fabrication of Twin-Free Ultrathin NH₂-MIL-125(Ti) Membrane with c-Preferred Orientation Using Transition-Metal Trichalcogenides as Titanium Source. , 2022, 4, 55-60.		10

#	Article	IF	Citations
19	Quantum rotor in nanostructured superconductors. Scientific Reports, 2015, 4, 4542.	3.3	4
20	Publisherâ€™s Note: Orbital Ordering and Jahn-Teller Distortion in Perovskite RuthenateSrRuO3 [Phys. Rev. Lett.97, 067002 (2006)]. Physical Review Letters, 2006, 97, .	7.8	3
21	A look into atomic carbon and oxygen adsorption on 1Tâ€²-MoS2monolayer: density functional theory calculations. Materials Research Express, 2017, 4, 125026.	1.6	3
22	The effect of impurities on spin-polarized Zeeman bound states in dilute magnetic semiconductor-superconductor hybrids. Journal of Applied Physics, 2010, 107, 034307.	2.5	2
23	Structural properties of small Li_n (n = 5â€“8) atomic clusters via ab initio random structure searching: A look into the role of different implementations of long-range dispersion corrections. International Journal of Modern Physics B, 2018, 32, 1850009.	2.0	2
24	Generating large out-of-plane piezoelectric properties of atomically thin MoS₂via defect engineering. Physical Chemistry Chemical Physics, 2021, 23, 23945-23952.	2.8	2
25	Novel Andreev bound states in nanostructured superconductors. , 2011, , .		0
26	Multiferroic hydrogenated graphene bilayer. Physical Chemistry Chemical Physics, 2020, 22, 7962-7968.	2.8	0