Dan Huang

List of Publications by Year
in descending order

40 papers	1,794 citations	471509 17 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	2484 citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning nitrogen species in three-dimensional porous carbon via phosphorus doping for ultra-fast potassium storage. Nano Energy, 2019, 57, 728-736.	16.0	323
2	Anion Vacancies Regulating Endows MoSSe with Fast and Stable Potassium Ion Storage. ACS Nano, 2019, 13, 11843-11852.	14.6	210
3	Structure-dependent performance of TiO2/C as anode material for Na-ion batteries. Nano Energy, 2018, 44, 217-227.	16.0	209
4	Plasmaâ€Induced Amorphous Shell and Deep Cationâ€Site S Doping Endow TiO₂ with Extraordinary Sodium Storage Performance. Advanced Materials, 2018, 30, e1801013.	21.0	180
5	1T MoS2 nanosheets with extraordinary sodium storage properties via thermal-driven ion intercalation assisted exfoliation of bulky MoS2. Nano Energy, 2019, 61, 361-369.	16.0	157
6	Band gap change induced by defect complexes in Cu2ZnSnS4. Thin Solid Films, 2013, 535, 265-269.	1.8	91
7	Electron-Injection-Engineering Induced Phase Transition toward Stabilized 1T-MoS₂ with Extraordinary Sodium Storage Performance. ACS Nano, 2021, 15, 8896-8906.	14.6	77
8	Harnessing Plasmaâ€Assisted Doping Engineering to Stabilize Metallic Phase MoSe₂for Fast and Durable Sodiumâ€Ion Storage. Advanced Materials, 2022, 34, e2200397.	21.0	70
9	Synergistic effect of N-doping and rich oxygen vacancies induced by nitrogen plasma endows TiO2 superior sodium storage performance. Electrochimica Acta, 2019, 309, 242-252.	5.2	44
10	Photocatalyst AgInS2 for active overall water-splitting: A first-principles study. Chemical Physics Letters, 2014, 591, 189-192.	2.6	43
11	First-principles study of Î3-CuI for p-type transparent conducting materials. Journal Physics D: Applied Physics, 2012, 45, 145102.	2.8	40
12	First-principles calculations of intrinsic defects in the p-type semiconductor CuAlO₂. Canadian Journal of Physics, 2010, 88, 927-932.	1.1	27
13	Status of materials and device modelling for kesterite solar cells. JPhys Energy, 2019, 1, 042004.	5.3	24
14	Silicon-doped FeOOH nanorods@graphene sheets as high-capacity and durable anodes for lithium-ion batteries. Applied Surface Science, 2021, 550, 149330.	6.1	23
15	Ferrocene as a Novel Additive to Enhance the Lithium-Ion Storage Capability of SnO₂/Graphene Composite. ACS Applied Materials & Interfaces, 2019, 11, 31943-31953.	8.0	21
16	Fabrication of uniform Si-incorporated SnO2 nanoparticles on graphene sheets as advanced anode for Li-ion batteries. Applied Surface Science, 2019, 476, 28-35.	6.1	20
17	Hybrid of Co-doped SnO2 and graphene sheets as anode material with enhanced lithium storage properties. Applied Surface Science, 2020, 533, 147447.	6.1	18
18	General rules of the sub-band gaps in group-IV (Si, Ge, and Sn)-doped I-III-VI2-type chalcopyrite compounds for intermediate band solar cell: A first-principles study. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 236-237, 147-152.	3.5	17

#	Article	IF	Citations
19	First-principles study of CuAlS2for p-type transparent conductive materials. Journal Physics D: Applied Physics, 2010, 43, 395405.	2.8	16
20	Hydrogenation properties of Mg17Al12 doped with alkaline-earth metal (Be, Ca, Sr and Ba). Journal of Alloys and Compounds, 2019, 774, 865-872.	5.5	15
21	First-principles prediction of a promising p-type transparent conductive material CsGeCl₃. Applied Physics Express, 2014, 7, 041201.	2.4	14
22	First-principles study on CuAlTe 2 and AgAlTe 2 for water splitting. Materials Chemistry and Physics, 2014, 148, 882-886.	4.0	13
23	Structural evolution of fluorinated graphene upon molten-alkali treatment probed by X-ray absorption near-edge structure spectroscopy. Applied Surface Science, 2017, 404, 1-6.	6.1	13
24	Group-IV (Si, Ge, and Sn)-doped AgAlTe₂for intermediate band solar cell from first-principles study. Semiconductor Science and Technology, 2017, 32, 065007.	2.0	12
25	Effects of annealing temperature, thickness and substrates on optical properties of m-plane ZnO films studied by photoluminescence and temperature dependent ellipsometry. Journal of Alloys and Compounds, 2020, 848, 156631.	5.5	11
26	First-principles study of Be doped CuAlS2 for p-type transparent conductive materials. Journal of Applied Physics, 2011, 109, .	2.5	10
27	Stability of the bandgap in Cu-poor CuInSe₂. Journal of Physics Condensed Matter, 2012, 24, 455503.	1.8	10
28	Inserting an intermediate band in Cu- and Ag-based Kesterite compounds by Sb doping: A first-principles study. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114937.	3.5	9
29	Effects of thickness and interlayer on optical properties of AlN films at room and high temperature. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	9
30	Mechanisms of Cr and H incorporation in stishovite determined by single-crystal EPR spectroscopy and DFT calculations. American Mineralogist, 2011, 96, 1331-1342.	1.9	8
31	Investigation on AgGaSe 2 for water splitting from first-principles calculations. Europhysics Letters, 2014, 105, 37007.	2.0	8
32	Theoretical Design of the Absorber for Intermediate Band Solar Cells from Groupâ€IV (Si, Ge, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	8
33	Exploration of MXene/polyaniline composites as promising anode materials for sodium ion batteries. Journal Physics D: Applied Physics, 2021, 54, 064001.	2.8	8
34	Local structures and roles of Fe³⁺ and Cr³⁺ in pâ€type semiconductor CuAlO₂. Physica Status Solidi (B): Basic Research, 2012, 249, 1559-1565.	1.5	6
35	Interface of Sn-doped AgAlTe2 and LiInTe2: A theoretical model of tandem intermediate band absorber. Applied Physics Letters, 2021, 118, .	3.3	6
36	Understanding the high p-type conductivity in Cu-excess CuAlS₂: A first-principles study. Applied Physics Express, 2016, 9, 031202.	2.4	5

#	Article	IF	Citations
37	Difficulty of long-standing n-type conductivity in equilibrium and non-equilibrium Î³ -CuCl: A first-principles study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2743-2747.	2.1	4
38	Enhanced hydrogen sorption on Mg17Al12 alloy induced adding Li: A first principle study. Applied Surface Science, 2019, 471, 239-245.	6.1	3
39	A low cost and nontoxic absorber for intermediate band solar cell based on P-doped Cu2SiS3: A first-principles study. Thin Solid Films, 2021, 718, 138473.	1.8	3
40	First-principles study on the absorber for intermediate band solar cell from Si, Ge, and Sn-doped LiGaTe2. Optik, 2022, 254, 168657.	2.9	2