

Chih-Shan Tan

List of Publications by Year in descending order

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54
papers

6,159
citations

159358

30
h-index

168136

53
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54
all docs

54
docs citations

54
times ranked

7355
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead-Free Ultra-Wide Direct Bandgap Perovskite EACal ₃ . IEEE Nanotechnology Magazine, 2022, 21, 66-70.	1.1	8
2	Density Functional Theory Study of Metallic Silicon (111) Plane Structures. ACS Omega, 2022, 7, 5385-5392.	1.6	8
3	Surface-dependent band structure variations and bond deviations of GaN. Physical Chemistry Chemical Physics, 2022, 24, 9135-9140.	1.3	10
4	Transition Metal Ions in Methylammonium Chloride Perovskites. ACS Omega, 2022, 7, 1412-1419.	1.6	7
5	Optoelectronic Properties Prediction of Lead-Free Methylammonium Alkaline-Earth Perovskite Based on DFT Calculations. ACS Omega, 2022, 7, 16204-16210.	1.6	6
6	Pentafluoropyridine functionalized novel heteroatom-doped with hierarchical porous 3D cross-linked graphene for supercapacitor applications. RSC Advances, 2021, 11, 26892-26907.	1.7	8
7	Surface-dependent band structure variations and bond-level deviations in Cu ₂ O. Inorganic Chemistry Frontiers, 2021, 8, 4200-4208.	3.0	24
8	Wearable Devices Made of a Wireless Vertical-Type Light-Emitting Diode Package on a Flexible Polyimide Substrate with a Conductive Layer. ACS Applied Electronic Materials, 2021, 3, 979-987.	2.0	9
9	Reliability study on deep-ultraviolet photodetectors based on ZnGa ₂ O ₄ epilayers grown by MOCVD. Applied Surface Science, 2021, 555, 149657.	3.1	18
10	Current Rectification and Photo-Responsive Current Achieved through Interfacial Facet Control of Cu ₂ O/Si Wafer Heterojunctions. ACS Central Science, 2021, 7, 1929-1937.	5.3	19
11	Catalyst synthesis under CO ₂ electroreduction favours faceting and promotes renewable fuels electrosynthesis. Nature Catalysis, 2020, 3, 98-106.	16.1	325
12	Energy-Saving ZnGa ₂ O ₄ Phototransistor Improved by Thermal Annealing. ACS Applied Electronic Materials, 2020, 2, 3515-3521.	2.0	15
13	Large Facet-Specific Built-in Potential Differences Affecting Trap State Densities and Carrier Lifetimes of GaAs Wafers. Journal of Physical Chemistry C, 2020, 124, 21577-21582.	1.5	15
14	Strain Control of a NO Gas Sensor Based on Ga-Doped ZnO Epilayers. ACS Applied Electronic Materials, 2020, 2, 1365-1372.	2.0	24
15	Accelerated discovery of CO ₂ electrocatalysts using active machine learning. Nature, 2020, 581, 178-183.	13.7	807
16	Germanium Possessing Facet-Specific Trap States and Carrier Lifetimes. Journal of Physical Chemistry C, 2020, 124, 13304-13309.	1.5	15
17	Enhanced Nitrate-to-Ammonia Activity on Copper-Nickel Alloys via Tuning of Intermediate Adsorption. Journal of the American Chemical Society, 2020, 142, 5702-5708.	6.6	638
18	Heterogeneous Supersaturation in Mixed Perovskites. Advanced Science, 2020, 7, 1903166.	5.6	13

#	ARTICLE	IF	CITATIONS
19	Molecular tuning of CO ₂ -to-ethylene conversion. <i>Nature</i> , 2020, 577, 509-513.	13.7	682
20	Power Saving High Performance Deep-Ultraviolet Phototransistors Made of ZnGa ₂ O ₄ Epilayers. <i>ACS Applied Electronic Materials</i> , 2020, 2, 590-596.	2.0	10
21	Facet-Dependent Surface Trap States and Carrier Lifetimes of Silicon. <i>Nano Letters</i> , 2020, 20, 1952-1958.	4.5	20
22	Density Functional Theory Calculations Revealing Metal-like Band Structures and Work Function Variation for Ultrathin Gallium Arsenide (111) Surface Layers. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2316-2321.	1.7	36
23	Suppressed Ion Migration in Reduced-Dimensional Perovskites Improves Operating Stability. <i>ACS Energy Letters</i> , 2019, 4, 1521-1527.	8.8	130
24	Lattice anchoring stabilizes solution-processed semiconductors. <i>Nature</i> , 2019, 570, 96-101.	13.7	208
25	A Facet-Specific Quantum Dot Passivation Strategy for Colloid Management and Efficient Infrared Photovoltaics. <i>Advanced Materials</i> , 2019, 31, e1805580.	11.1	87
26	Contactless measurements of photocarrier transport properties in perovskite single crystals. <i>Nature Communications</i> , 2019, 10, 1591.	5.8	55
27	In Situ Back-Contact Passivation Improves Photovoltage and Fill Factor in Perovskite Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1807435.	11.1	143
28	Efficient electrocatalytic conversion of carbon monoxide to propanol using fragmented copper. <i>Nature Catalysis</i> , 2019, 2, 251-258.	16.1	188
29	Efficient upgrading of CO to C ₃ fuel using asymmetric C-C coupling active sites. <i>Nature Communications</i> , 2019, 10, 5186.	5.8	127
30	Perovskite seeding growth of formamidinium-lead-iodide-based perovskites for efficient and stable solar cells. <i>Nature Communications</i> , 2018, 9, 1607.	5.8	309
31	Polyhedral Cu ₂ O to Cu pseudomorphic conversion for stereoselective alkyne semihydrogenation. <i>Chemical Science</i> , 2018, 9, 2517-2524.	3.7	34
32	Copper nanocavities confine intermediates for efficient electrosynthesis of C ₃ alcohol fuels from carbon monoxide. <i>Nature Catalysis</i> , 2018, 1, 946-951.	16.1	354
33	Copper-on-nitride enhances the stable electrosynthesis of multi-carbon products from CO ₂ . <i>Nature Communications</i> , 2018, 9, 3828.	5.8	279
34	Density Functional Theory Calculations Revealing Metal-like Band Structures for Ultrathin Germanium (111) and (211) Surface Layers. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1972-1976.	1.7	41
35	Metal-Organic Frameworks Mediate Cu Coordination for Selective CO ₂ Electroreduction. <i>Journal of the American Chemical Society</i> , 2018, 140, 11378-11386.	6.6	326
36	2D Metal Oxyhalide-Derived Catalysts for Efficient CO ₂ Electroreduction. <i>Advanced Materials</i> , 2018, 30, e1802858.	11.1	200

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37	Latticeâ€Symmetryâ€Driven Epitaxy of Hierarchical GaN Nanotripods. <i>Advanced Functional Materials</i> , 2017, 27, 1604854.	7.8	17
38	Strong Facet Effects on Interfacial Charge Transfer Revealed through the Examination of Photocatalytic Activities of Various Cu₂Oâ€ZnO Heterostructures. <i>Advanced Functional Materials</i> , 2017, 27, 1604635.	7.8	112
39	Facetâ€Dependent Electrical Conductivity Properties of Silver Oxide Crystals. <i>Chemistry - an Asian Journal</i> , 2017, 12, 293-297.	1.7	48
40	Enhanced Openâ€Circuit Voltage in Colloidal Quantum Dot Photovoltaics via Reactivityâ€Controlled Solutionâ€Phase Ligand Exchange. <i>Advanced Materials</i> , 2017, 29, 1703627.	11.1	49
41	Silicon Wafers with Facetâ€Dependent Electrical Conductivity Properties. <i>Angewandte Chemie</i> , 2017, 129, 15541-15545.	1.6	12
42	Silicon Wafers with Facetâ€Dependent Electrical Conductivity Properties. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15339-15343.	7.2	46
43	Chloride Passivation of ZnO Electrodes Improves Charge Extraction in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2017, 29, 1702350.	11.1	126
44	Metalâ€like Band Structures of Ultrathin Si {111} and {112} Surface Layers Revealed through Density Functional Theory Calculations. <i>Chemistry - A European Journal</i> , 2017, 23, 11866-11871.	1.7	49
45	Surface plasmon resonance enhancement of production of H ₂ from ammonia borane solution with tunable Cu ₂ S nanowires decorated by Pd nanoparticles. <i>Nano Energy</i> , 2017, 31, 57-63.	8.2	65
46	Magnetic MoS ₂ Interface Monolayer on a CdS Nanowire by Cation Exchange. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23055-23060.	1.5	24
47	Facet-Dependent Electrical Conductivity Properties of PbS Nanocrystals. <i>Chemistry of Materials</i> , 2016, 28, 1574-1580.	3.2	56
48	Intermediates in the cation reactions in solution probed by an in situ surface enhanced Raman scattering method. <i>Scientific Reports</i> , 2015, 5, 13759.	1.6	6
49	Facet-dependent optical properties of Pdâ€Cu₂O coreâ€shell nanocubes and octahedra. <i>Nanoscale</i> , 2015, 7, 11135-11141.	2.8	51
50	Surfactant-Directed Fabrication of Supercrystals from the Assembly of Polyhedral Auâ€Pd Coreâ€Shell Nanocrystals and Their Electrical and Optical Properties. <i>Journal of the American Chemical Society</i> , 2015, 137, 2265-2275.	6.6	47
51	Facet-Dependent Electrical Conductivity Properties of Cu₂O Crystals. <i>Nano Letters</i> , 2015, 15, 2155-2160.	4.5	203
52	Synthesis, characterization, and band gap tunability in Ternary Zn_{1-x}Cd_xS (0 x ≤ 1) alloyed nanowires. , 2014, , .		1
53	Sequential Cation Exchange Generated Superlattice Nanowires Forming Multiple pâ€n Heterojunctions. <i>ACS Nano</i> , 2014, 8, 9422-9426.	7.3	29
54	Enhancement of perpendicular coercivity in L11 CoPt thin films by replacement of Co with Cu. <i>Journal of Applied Physics</i> , 2010, 108, 113909.	1.1	20