

Christopher T Chen

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

534
citations

687335

13
h-index

794568

19
g-index

22
all docs

22
docs citations

22
times ranked

1282
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Spin-Orbit Splitting of Deep In-Gap Defect States of Engineered Sulfur Vacancies in Monolayer WS_2 . Physical Review Letters, 2019, 123, 076801.	7.8	120
2	How Substitutional Point Defects in Two-Dimensional WS_2 Induce Charge Localization, Spin-Orbit Splitting, and Strain. ACS Nano, 2019, 13, 10520-10534.	14.6	86
3	Effects of Defects on Band Structure and Excitons in WS_2 Revealed by Nanoscale Photoemission Spectroscopy. ACS Nano, 2019, 13, 1284-1291.	14.6	64
4	The important role of water in growth of monolayer transition metal dichalcogenides. 2D Materials, 2017, 4, 021024.	4.4	43
5	Photoelectrochemical Behavior of Planar and Microwire Array Si GaP Electrodes. Advanced Energy Materials, 2012, 2, 1109-1116.	19.5	39
6	Fabrication and optical characterization of polystyrene opal templates for the synthesis of scalable, nanoporous (photo)electrocatalytic materials by electrodeposition. Journal of Materials Chemistry A, 2017, 5, 11601-11614.	10.3	32
7	Enhanced Absorption and 1% Spectrum-and-Angle-Averaged Reflection in Tapered Microwire Arrays. ACS Photonics, 2016, 3, 1854-1861.	6.6	24
8	Fabrication of Single Crystal Gallium Phosphide Thin Films on Glass. Scientific Reports, 2017, 7, 4643.	3.3	20
9	Anisotropic 2D excitons unveiled in organic-inorganic quantum wells. Materials Horizons, 2021, 8, 197-208.	12.2	17
10	Very High Refractive Index Transition Metal Dichalcogenide Photonic Conformal Coatings by Conversion of ALD Metal Oxides. Scientific Reports, 2019, 9, 2768.	3.3	16
11	Wafer-Scale Growth of Silicon Microwire Arrays for Photovoltaics and Solar Fuel Generation. IEEE Journal of Photovoltaics, 2012, 2, 294-297.	2.5	15
12	Study of the Interface in a GaP/Si Heterojunction Solar Cell. IEEE Journal of Photovoltaics, 2018, 8, 1568-1576.	2.5	14
13	Coupled valence carrier and core-exciton dynamics in WS_2 probed by few-femtosecond extreme ultraviolet transient absorption spectroscopy. Physical Review B, 2021, 104, .	3.2	13
14	Flexible, Transparent Contacts for Inorganic Nanostructures and Thin Films. Advanced Materials, 2013, 25, 4018-4022.	21.0	10
15	Optoelectronic analysis of multijunction wire array solar cells. Journal of Applied Physics, 2013, 114, .	2.5	9
16	Lithographically defined synthesis of transition metal dichalcogenides. 2D Materials, 2019, 6, 045055.	4.4	4
17	GaP/Si heterojunction solar cells. , 2015, , .		2
18	Characterizing transition-metal dichalcogenide thin-films using hyperspectral imaging and machine learning. Scientific Reports, 2020, 10, 11602.	3.3	2

#	ARTICLE	IF	CITATIONS
19	Methods for tuning plasmonic and photonic optical resonances in high surface area porous electrodes. Scientific Reports, 2021, 11, 7656.	3.3	2
20	Wafer-scale growth of silicon microwire arrays for photovoltaics. , 2011, , .		1
21	Cu-Catalyzed Vaporâ€“Liquidâ€“Solid Growth of SiGe Microwire Arrays with Chlorosilane and Chlorogermane Precursors. Crystal Growth and Design, 2015, 15, 3684-3689.	3.0	1
22	Design and growth of III-V on Si microwire array tandem solar cells. , 2013, , .		0