

Christopher T Chen

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

534
citations

687363

13
h-index

794594

19
g-index

22
all docs

22
docs citations

22
times ranked

1282
citing authors

#	ARTICLE	IF	CITATIONS
1	Anisotropic 2D excitons unveiled in organic-inorganic quantum wells. <i>Materials Horizons</i> , 2021, 8, 197-208.	12.2	17
2	Methods for tuning plasmonic and photonic optical resonances in high surface area porous electrodes. <i>Scientific Reports</i> , 2021, 11, 7656.	3.3	2
3	Coupled valence carrier and core-exciton dynamics in WS_2 probed by few-femtosecond extreme ultraviolet transient absorption spectroscopy. <i>Physical Review B</i> , 2021, 104, .	3.2	13
4	Characterizing transition-metal dichalcogenide thin-films using hyperspectral imaging and machine learning. <i>Scientific Reports</i> , 2020, 10, 11602.	3.3	2
5	How Substitutional Point Defects in Two-Dimensional WS_2 Induce Charge Localization, Spin-Orbit Splitting, and Strain. <i>ACS Nano</i> , 2019, 13, 10520-10534.	14.6	86
6	Large Spin-Orbit Splitting of Deep In-Gap Defect States of Engineered Sulfur Vacancies in Monolayer WS_2 . <i>Physical Review Letters</i> , 2019, 123, 076801.	7.8	120
7	Lithographically defined synthesis of transition metal dichalcogenides. <i>2D Materials</i> , 2019, 6, 045055.	4.4	4
8	Very High Refractive Index Transition Metal Dichalcogenide Photonic Conformal Coatings by Conversion of ALD Metal Oxides. <i>Scientific Reports</i> , 2019, 9, 2768.	3.3	16
9	Effects of Defects on Band Structure and Excitons in WS_2 Revealed by Nanoscale Photoemission Spectroscopy. <i>ACS Nano</i> , 2019, 13, 1284-1291.	14.6	64
10	Study of the Interface in a GaP/Si Heterojunction Solar Cell. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1568-1576.	2.5	14
11	Fabrication and optical characterization of polystyrene opal templates for the synthesis of scalable, nanoporous (photo)electrocatalytic materials by electrodeposition. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11601-11614.	10.3	32
12	The important role of water in growth of monolayer transition metal dichalcogenides. <i>2D Materials</i> , 2017, 4, 021024.	4.4	43
13	Fabrication of Single Crystal Gallium Phosphide Thin Films on Glass. <i>Scientific Reports</i> , 2017, 7, 4643.	3.3	20
14	Enhanced Absorption and $\sim 1\%$ Spectrum-and-Angle-Averaged Reflection in Tapered Microwire Arrays. <i>ACS Photonics</i> , 2016, 3, 1854-1861.	6.6	24
15	GaP/Si heterojunction solar cells. , 2015, , .		2
16	Cu-Catalyzed Vapor-Liquid-Solid Growth of SiGe Microwire Arrays with Chlorosilane and Chlorogermane Precursors. <i>Crystal Growth and Design</i> , 2015, 15, 3684-3689.	3.0	1
17	Optoelectronic analysis of multijunction wire array solar cells. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	9
18	Flexible, Transparent Contacts for Inorganic Nanostructures and Thin Films. <i>Advanced Materials</i> , 2013, 25, 4018-4022.	21.0	10

#	ARTICLE	IF	CITATIONS
19	Design and growth of III-V on Si microwire array tandem solar cells. , 2013, , .		0
20	Wafer-Scale Growth of Silicon Microwire Arrays for Photovoltaics and Solar Fuel Generation. IEEE Journal of Photovoltaics, 2012, 2, 294-297.	2.5	15
21	Photoelectrochemical Behavior of Planar and Microwire Array Si GaP Electrodes. Advanced Energy Materials, 2012, 2, 1109-1116.	19.5	39
22	Wafer-scale growth of silicon microwire arrays for photovoltaics. , 2011, , .		1