

# Chung-Che Huang

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,565  
citations

516215

16  
h-index

395343

33  
g-index

42  
all docs

42  
docs citations

42  
times ranked

3176  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metamaterial electro-optic switch of nanoscale thickness. Applied Physics Letters, 2010, 96, .	1.5	287
2	Ultrafast Carrier Thermalization and Cooling Dynamics in Few-Layer MoS <sub>2</sub> . ACS Nano, 2014, 8, 10931-10940.	7.3	236
3	Chalcogenide glass-on-graphene photonics. Nature Photonics, 2017, 11, 798-805.	15.6	190
4	Experimental and DFT insights of the Zn-doping effects on the visible-light photocatalytic water splitting and dye decomposition over Zn-doped BiOBr photocatalysts. Applied Catalysis B: Environmental, 2019, 243, 502-512.	10.8	164
5	Spin-Orbit Splitting in Single-Layer $\text{MoS}_2$ Revealed by Triply Resonant Raman Scattering. Physical Review Letters, 2013, 111, 126801.	12.9	137
6	Deposition and characterization of germanium sulphide glass planar waveguides. Optics Express, 2004, 12, 2501.	1.7	84
7	Scalable high-mobility MoS <sub>2</sub> thin films fabricated by an atmospheric pressure chemical vapor deposition process at ambient temperature. Nanoscale, 2014, 6, 12792-12797.	2.8	73
8	Ultrafast Electron and Hole Relaxation Pathways in Few-Layer MoS <sub>2</sub> . Journal of Physical Chemistry C, 2015, 119, 20698-20708.	1.5	47
9	Generation of Multi-Gigahertz Trains of Phase-Coherent Femtosecond Laser Pulses in Ti:Sapphire Waveguides. Laser and Photonics Reviews, 2018, 12, 1800167.	4.4	32
10	Revealing the nature of low-temperature photoluminescence peaks by laser treatment in van der Waals epitaxially grown WS <sub>2</sub> monolayers. Nanoscale, 2018, 10, 4807-4815.	2.8	29
11	Chalcogenide Glass Thin Films and Planar Waveguides. Journal of the American Ceramic Society, 2005, 88, 2451-2455.	1.9	28
12	A comprehensive study on the effects of gamma radiation on the physical properties of a two-dimensional WS <sub>2</sub> monolayer semiconductor. Nanoscale Horizons, 2020, 5, 259-267.	4.1	26
13	Probing Excitons, Trions, and Dark Excitons in Monolayer WS <sub>2</sub> Using Resonance Raman Spectroscopy. Nano Letters, 2018, 18, 1428-1434.	4.5	25
14	Mechanochromic Reconfigurable Metasurfaces. Advanced Science, 2019, 6, 1900974.	5.6	23
15	Reconfigurable phase-change photomask for grayscale photolithography. Applied Physics Letters, 2017, 110, .	1.5	22
16	Optical properties of CVD grown amorphous Ge <sub>1-x</sub> Sb <sub>x</sub> S thin films. Journal of Non-Crystalline Solids, 2010, 356, 281-285.	1.5	19
17	Multilayer CVD-Graphene and MoS <sub>2</sub> , Ethanol Sensing and Characterization Using Kretschmann-Based SPR. IEEE Journal of the Electron Devices Society, 2020, 8, 1227-1235.	1.2	16
18	Electrical phase change of CVD-grown Ge-Sb-Te thin-film device. Electronics Letters, 2011, 47, 288.	0.5	15

#	ARTICLE	IF	CITATIONS
19	Enhanced light-matter interaction in atomically thin MoS <sub>2</sub> coupled with 1D photonic crystal nanocavity. <i>Optics Express</i> , 2017, 25, 14691.	1.7	15
20	Silver-doped germanium sulphide glass channel waveguides fabricated by chemical vapour deposition and photo-dissolution process. <i>Thin Solid Films</i> , 2006, 500, 247-251.	0.8	14
21	Deposition and Characterization of CVD-Grown Ge-Sb Thin Film Device for Phase-Change Memory Application. <i>Advances in OptoElectronics</i> , 2012, 2012, 1-7.	0.6	14
22	Observation of Complete Photonic Bandgap in Low Refractive Index Contrast Inverse Rod-Connected Diamond Structured Chalcogenides. <i>ACS Photonics</i> , 2019, 6, 1248-1254.	3.2	11
23	Antimony germanium sulphide amorphous thin films fabricated by chemical vapour deposition. <i>Optical Materials</i> , 2007, 29, 1344-1347.	1.7	10
24	Germanium antimony lateral nanowire phase change memory by chemical vapor deposition. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 994-998.	0.7	10
25	Strain engineering in graphene by laser irradiation. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	8
26	Composite material anti-resonant optical fiber electromodulator with a 35 dB depth. <i>Optics Letters</i> , 2020, 45, 1132.	1.7	6
27	Laser-induced crystalline optical waveguide in glass fiber format. <i>Optics Express</i> , 2012, 20, B85.	1.7	5
28	Effect of coating few-layer WS <sub>2</sub> on the Raman spectra and whispering gallery modes of a microbottle resonator. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 105003.	1.0	4
29	(INVITED) Opto-electronic properties of solution-synthesized MoS <sub>2</sub> metal-semiconductor-metal photodetector. <i>Optical Materials: X</i> , 2022, 13, 100135.	0.3	4
30	Electrical phase change of Ga:La:S:Cu films. <i>Electronics Letters</i> , 2007, 43, 830.	0.5	3
31	Low current consuming thermally stable sulphide phase change memory. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 4763-4769.	1.1	3
32	Terahertz Analysis of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskites Associated with Graphene and Silver Nanowire Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9224-9231.	4.0	3
33	Ultrafast nonequilibrium dynamic process of separate electrons and holes during exciton formation in few-layer tungsten disulfide. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7135-7144.	1.3	1
34	Enhancement of nonlinear functionality of step-index silica fibers combining thermal poling and 2D materials deposition. <i>Optics Express</i> , 2020, 28, 34461.	1.7	1
35	Focused ion beam etched ring-resonator in CVD-grown Ge-Sb-S thin films. , 2009, , .		0
36	Fabrication of micro-scale fracture specimens for nuclear applications by direct laser writing. <i>MRS Advances</i> , 2018, 3, 1771-1775.	0.5	0

#	ARTICLE	IF	CITATIONS
37	Chalcogenide Glass Metamaterial Optical Switch. , 2009, , .		0
38	In-fiber all-optical modulation based on an enhanced light-matter interaction with graphene. , 2016, , .		0
39	Composite material hollow core fibers: functionalization with silicon and 2D materials. , 2018, , .		0
40	Effect of Polarization on the Raman Scattering of the 2D Material -Tungsten Disulphide. , 2019, , .		0
41	Coherent phonon dynamics in a c-plane sapphire crystal before and after intense femtosecond laser irradiation. Optics Express, 2020, 28, 16003.	1.7	0