Chung-Che Huang

List of Publications by Year
in descending order

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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	(INVITED) Opto-electronic properties of solution-synthesized MoS2 metal-semiconductor-metal photodetector. Optical Materials: X, 2022, 13, 100135.	0.3	4
2	Ultrafast nonequilibrium dynamic process of separate electrons and holes during exciton formation in few-layer tungsten disulfide. Physical Chemistry Chemical Physics, 2021, 23, 7135-7144.	1.3	1
3	Terahertz Analysis of CH₃NH₃PbI₃ Perovskites Associated with Graphene and Silver Nanowire Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 9224-9231.	4.0	3
4	A comprehensive study on the effects of gamma radiation on the physical properties of a two-dimensional WS₂monolayer semiconductor. Nanoscale Horizons, 2020, 5, 259-267.	4.1	26
5	Multilayer CVD-Graphene and MoSâ„‚ Ethanol Sensing and Characterization Using Kretschmann-Based SPR. IEEE Journal of the Electron Devices Society, 2020, 8, 1227-1235.	1.2	16
6	Effect of coating few-layer WS₂ on the Raman spectra and whispering gallery modes of a microbottle resonator. Journal of Optics (United Kingdom), 2020, 22, 105003.	1.0	4
7	Composite material anti-resonant optical fiber electromodulator with a 35â€‰â€‰dB depth. Optics Letters, 2020, 45, 1132.	1.7	6
8	Coherent phonon dynamics in a c-plane sapphire crystal before and after intense femtosecond laser irradiation. Optics Express, 2020, 28, 16003.	1.7	0
9	Enhancement of nonlinear functionality of step-index silica fibers combining thermal poling and 2D materials deposition. Optics Express, 2020, 28, 34461.	1.7	1
10	Mechanochromic Reconfigurable Metasurfaces. Advanced Science, 2019, 6, 1900974.	5.6	23
11	Observation of Complete Photonic Bandgap in Low Refractive Index Contrast Inverse Rod-Connected Diamond Structured Chalcogenides. ACS Photonics, 2019, 6, 1248-1254.	3.2	11
12	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
13	Effect of Polarization on the Raman Scattering of the 2D Material -Tungsten Disulphide. , 2019, , .		0
14	Revealing the nature of low-temperature photoluminescence peaks by laser treatment in van der Waals epitaxially grown WS₂ monolayers. Nanoscale, 2018, 10, 4807-4815.	2.8	29
15	Probing Excitons, Trions, and Dark Excitons in Monolayer WS₂ Using Resonance Raman Spectroscopy. Nano Letters, 2018, 18, 1428-1434.	4.5	25
16	Generation of Multiâ€Gigahertz Trains of Phaseâ€Coherent Femtosecond Laser Pulses in Ti:Sapphire Waveguides. Laser and Photonics Reviews, 2018, 12, 1800167.	4.4	32
17	Fabrication of micro-scale fracture specimens for nuclear applications by direct laser writing. MRS Advances, 2018, 3, 1771-1775.	0.5	0
18	Composite material hollow core fibers: functionalization with silicon and 2D materials. , 2018, , .		0

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19	Reconfigurable phase-change photomask for grayscale photolithography. Applied Physics Letters, 2017, 110, .	1.5	22
20	Chalcogenide glass-on-graphene photonics. Nature Photonics, 2017, 11, 798-805.	15.6	190
21	Enhanced light-matter interaction in atomically thin MoS_2 coupled with 1D photonic crystal nanocavity. Optics Express, 2017, 25, 14691.	1.7	15
22	In-fiber all-optical modulation based on an enhanced light-matter interaction with graphene. , 2016, , .		0
23	Low current consuming thermally stable sulphide phase change memory. Journal of Materials Science: Materials in Electronics, 2015, 26, 4763-4769.	1.1	3
24	Strain engineering in graphene by laser irradiation. Applied Physics Letters, 2015, 106, .	1.5	8
25	Ultrafast Electron and Hole Relaxation Pathways in Few-Layer MoS₂. Journal of Physical Chemistry C, 2015, 119, 20698-20708.	1.5	47
26	Ultrafast Carrier Thermalization and Cooling Dynamics in Few-Layer MoS₂. ACS Nano, 2014, 8, 10931-10940.	7.3	236
27	Scalable high-mobility MoS₂thin films fabricated by an atmospheric pressure chemical vapor deposition process at ambient temperature. Nanoscale, 2014, 6, 12792-12797.	2.8	73
28	Spin-Orbit Splitting in Single-Layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Revealed by Triply Resonant Raman Scattering. Physical Review Letters, 2013, 111, 126801.	2.9	137
29	Germanium antimony lateral nanowire phase change memory by chemical vapor deposition. Physica Status Solidi (B): Basic Research, 2013, 250, 994-998.	0.7	10
30	Laser-induced crystalline optical waveguide in glass fiber format. Optics Express, 2012, 20, B85.	1.7	5
31	Deposition and Characterization of CVD-Grown Ge-Sb Thin Film Device for Phase-Change Memory Application. Advances in OptoElectronics, 2012, 2012, 1-7.	0.6	14
32	Electrical phase change of CVD-grown Ge-Sb-Te thin-film device. Electronics Letters, 2011, 47, 288.	0.5	15
33	Metamaterial electro-optic switch of nanoscale thickness. Applied Physics Letters, 2010, 96, .	1.5	287
34	Optical properties of CVD grown amorphous Geâ€“Sbâ€“S thin films. Journal of Non-Crystalline Solids, 2010, 356, 281-285.	1.5	19
35	Focused ion beam etched ring-resonator in CVD-grown Ge-Sb-S thin films. , 2009, , .		0
36	Chalcogenide Glass Metamaterial Optical Switch. , 2009, , .		0

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37	Electrical phase change of Ga:La:S:Cu films. Electronics Letters, 2007, 43, 830.	0.5	3
38	Antimony germanium sulphide amorphous thin films fabricated by chemical vapour deposition. Optical Materials, 2007, 29, 1344-1347.	1.7	10
39	Silver-doped germanium sulphide glass channel waveguides fabricated by chemical vapour deposition and photo-dissolution process. Thin Solid Films, 2006, 500, 247-251.	0.8	14
40	Chalcogenide Glass Thin Films and Planar Waveguides. Journal of the American Ceramic Society, 2005, 88, 2451-2455.	1.9	28
41	Deposition and characterization of germanium sulphide glass planar waveguides. Optics Express, 2004, 12, 2501.	1.7	84