Hsiang-Chen Wang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9147704/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Growth Mechanism of Periodic-Structured MoS2 by Transmission Electron Microscopy. Nanomaterials, 2022, 12, 135.	1.9	24
2	Optical and Material Characteristics of MoS2/Cu2O Sensor for Detection of Lung Cancer Cell Types in Hydroplegia. International Journal of Molecular Sciences, 2022, 23, 4745.	1.8	33
3	Design of a Lab-On-Chip for Cancer Cell Detection through Impedance and Photoelectrochemical Response Analysis. Biosensors, 2022, 12, 405.	2.3	25
4	Detection of weak micro-scratches on aspherical lenses using a Gabor neural network and transfer learning. Applied Optics, 2022, 61, 6046.	0.9	2
5	Identification of Skin Lesions by Using Single-Step Multiframe Detector. Journal of Clinical Medicine, 2021, 10, 144.	1.0	9
6	Characteristics of P-Type and N-Type Photoelectrochemical Biosensors: A Case Study for Esophageal Cancer Detection. Nanomaterials, 2021, 11, 1065.	1.9	5
7	Air Pollution: Sensitive Detection of PM2.5 and PM10 Concentration Using Hyperspectral Imaging. Applied Sciences (Switzerland), 2021, 11, 4543.	1.3	32
8	Hyperspectral Imaging Combined with Artificial Intelligence in the Early Detection of Esophageal Cancer. Cancers, 2021, 13, 4593.	1.7	45
9	Comparative Analysis of Stress and Deformation between One-Fenced and Three-Fenced Dental Implants Using Finite Element Analysis. Journal of Clinical Medicine, 2021, 10, 3986.	1.0	11
10	Endoscopic Images by a Single-Shot Multibox Detector for the Identification of Early Cancerous Lesions in the Esophagus: A Pilot Study. Cancers, 2021, 13, 321.	1.7	29
11	Simplified Approach to Detect Satellite Maneuvers Using TLE Data and Simplified Perturbation Model Utilizing Orbital Element Variation. Applied Sciences (Switzerland), 2021, 11, 10181.	1.3	17
12	Cu2O/PEDOT:PSS/ZnO Nanocomposite Material Biosensor for Esophageal Cancer Detection. Sensors, 2020, 20, 2455.	2.1	16
13	Nonâ€Volatile Flash Photomemory: Ultrafast Responsive Nonâ€Volatile Flash Photomemory via Spatially Addressable Perovskite/Block Copolymer Composite Film (Adv. Funct. Mater. 21/2020). Advanced Functional Materials, 2020, 30, 2070135.	7.8	1
14	Hyperspectral Ophthalmoscope Images for the Diagnosis of Diabetic Retinopathy Stage. Journal of Clinical Medicine, 2020, 9, 1613.	1.0	10
15	Intelligent Identification of MoS2 Nanostructures with Hyperspectral Imaging by 3D-CNN. Nanomaterials, 2020, 10, 1161.	1.9	13
16	Enhancing carrier transport and carrier capture with a good current spreading characteristic via graphene transparent conductive electrodes in InGaN/GaN multiple-quantum-well light emitting diodes. Scientific Reports, 2020, 10, 10539.	1.6	3
17	Ultrafast Responsive Nonâ€Volatile Flash Photomemory via Spatially Addressable Perovskite/Block Copolymer Composite Film. Advanced Functional Materials, 2020, 30, 2000764.	7.8	61
18	Co-dosing Ozone and Deionized Water as Oxidant Precursors of ZnO Thin Film Growth by Atomic Layer Deposition. Nanoscale Research Letters, 2020, 15, 154.	3.1	0

#	Article	IF	CITATIONS
19	Carrier Dynamics in InGaN/GaN on the Basis of Different In Concentrations. Applied Sciences (Switzerland), 2019, 9, 2279.	1.3	2
20	Hollow Light Guide Module Involving Mini Light-Emitting Diodes for Asymmetric Luminous Planar Illuminators. Energies, 2019, 12, 2755.	1.6	11
21	Nanoparticle-Doped Polydimethylsiloxane Fluid Enhances the Optical Performance of AlGaN-Based Deep-Ultraviolet Light-Emitting Diodes. Nanoscale Research Letters, 2019, 14, 236.	3.1	5
22	Laser Headlamp with a Tunable Light Field. Energies, 2019, 12, 707.	1.6	8
23	Contact lens with peripheral refractive correction. Optik, 2019, 185, 223-231.	1.4	4
24	Growth, characterization, and analysis of the nanostructures of ZnO:B thin films grown on ITO glass substrates by a LPCVD: a study on the effects of boron doping. Journal of Materials Science: Materials in Electronics, 2019, 30, 5698-5705.	1.1	6
25	Influences of Contact Metals on the Performances of MoS ₂ Devices under Strains. Journal of Physical Chemistry C, 2019, 123, 30696-30703.	1.5	5
26	Real time monitoring of fs laser annealing on indium tin oxide. Optics and Laser Technology, 2019, 111, 380-386.	2.2	6
27	Time-evolution of the electrical characteristics of MoS ₂ field-effect transistors after electron beam irradiation. Physical Chemistry Chemical Physics, 2018, 20, 9038-9044.	1.3	17
28	Identifying the incidence level of periodontal disease through hyperspectral imaging. Optical and Quantum Electronics, 2018, 50, 1.	1.5	7
29	Precursor Duration and Thermal Annealing Effects in InGaN/GaN Multiple Quantum Wells Grown on Nitrogen-Polar GaN Templates by a Pulsed Metallorganic Chemical Vapor Deposition. ECS Journal of Solid State Science and Technology, 2018, 7, R161-R165.	0.9	0
30	Early identification of esophageal squamous neoplasm by hyperspectral endoscopic imaging. Scientific Reports, 2018, 8, 13797.	1.6	20
31	Light extraction efficiency enhancement of flip-chip blue light-emitting diodes by anodic aluminum oxide. Beilstein Journal of Nanotechnology, 2018, 9, 1602-1612.	1.5	10
32	(Invited) Molybdenum Disulfide Biosensors. ECS Meeting Abstracts, 2018, , .	0.0	0
33	Endoscopic screening for synchronous esophageal neoplasia among patients with incident head and neck cancer: Prevalence, risk factors, and outcomes. International Journal of Cancer, 2017, 141, 1987-1996.	2.3	43
34	Characterizations and growth of textured well-faceted ZnO films by low-pressure chemical vapor deposition on ITO glass substrates. Superlattices and Microstructures, 2017, 111, 1073-1081.	1.4	7
35	Human eye cataract microstructure modeling and its effect on simulated retinal imaging. Optics Communications, 2017, 385, 59-65.	1.0	2
36	The effects of indium aggregation in InGaN/GaN single and multiple quantum wells grown on nitrogen-polar GaN templates by a pulsed metalorganic chemical vapor deposition. Journal of Luminescence, 2017, 182, 196-199.	1.5	9

#	Article	IF	CITATIONS
37	Nano-structure ZnO/Cu_2O photoelectrochemical and self-powered biosensor for esophageal cancer cell detection. Optics Express, 2017, 25, 7689.	1.7	34
38	Nanostructure analysis of InGaN/GaN quantum wells based on semi-polar-faced GaN nanorods. Optical Materials Express, 2017, 7, 320.	1.6	6
39	Characterizing Esophageal Cancerous Cells at Different Stages Using the Dielectrophoretic Impedance Measurement Method in a Microchip. Sensors, 2017, 17, 1053.	2.1	23
40	How Smart LEDs Lighting Benefit Color Temperature and Luminosity Transformation. Energies, 2017, 10, 518.	1.6	19
41	Optimal Silicon Doping Layers of Quantum Barriers in the Growth Sequence Forming Soft Confinement Potential of Eight-Period In0.2Ga0.8N/GaN Quantum Wells of Blue LEDs. Nanoscale Research Letters, 2017, 12, 591.	3.1	5
42	Growth and characterization of textured well-faceted ZnO on planar Si(100), planar Si(111), and textured Si(100) substrates for solar cell applications. Beilstein Journal of Nanotechnology, 2017, 8, 1939-1945.	1.5	11
43	Low-temperature-grown p–n ZnO nanojunction arrays as rapid and self-driven UV photodetectors. Chemical Communications, 2016, 52, 12853-12856.	2.2	15
44	All-reflective RGB LED flashlight design for effective color mixing. Optics Express, 2016, 24, 4411.	1.7	14
45	Rainbow glare by retinal imaging. Optics Communications, 2016, 370, 160-167.	1.0	4
46	Efficient carrier relaxation and fast carrier recombination of <i>N</i> -polar InGaN/GaN light emitting diodes. Journal of Applied Physics, 2015, 118, .	1.1	17
47	Identified early stage mycosis fungoides from psoriasis and atopic dermatitis using non-invasive color contrast enhancement by LEDs lighting. Optical and Quantum Electronics, 2015, 47, 1599-1611.	1.5	15
48	Large-area few-layered graphene film determination by multispectral imaging microscopy. Nanoscale, 2015, 7, 9033-9039.	2.8	11
49	High performance Cu_2O/ZnO core-shell nanorod arrays synthesized using a nanoimprint GaN template by the hydrothermal growth technique. Optical Materials Express, 2014, 4, 1473.	1.6	30
50	Anti-glare LED lamps with adjustable illumination light field. Optics Express, 2014, 22, 5183.	1.7	20
51	Optical perception for detection of cutaneous T-cell lymphoma by multi-spectral imaging. Journal of Optics (United Kingdom), 2014, 16, 125301.	1.0	9
52	Diagnosis of Human Bladder Cancer Cells at Different Stages Using Multispectral Imaging Microscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 81-88.	1.9	17
53	Spectral design and evaluation of OLEDs as light sources. Organic Electronics, 2014, 15, 2194-2209.	1.4	17
54	Indium droplet formation in InGaN thin films with single and double heterojunctions prepared by MOCVD. Nanoscale Research Letters, 2014, 9, 334.	3.1	15

#	Article	IF	CITATIONS
55	Influence of catalyst choices on transport behaviors of InAs NWs for high-performance nanoscale transistors. Physical Chemistry Chemical Physics, 2013, 15, 2654.	1.3	17
56	Vision correction via multi-layer pattern corneal surgery. Optics Communications, 2013, 300, 293-298.	1.0	6
57	Synthesis and characterization of ZnO/ZnMgO multiple quantum wells by molecular beam epitaxy. Optical Materials Express, 2013, 3, 237.	1.6	23
58	Plan-view transmission electron microscopy study on coalescence overgrowth of GaN nano-columns by MOCVD. Optical Materials Express, 2013, 3, 1459.	1.6	6
59	Crystallinity improvement of ZnO thin film by hierarchical thermal annealing. Optical Materials Express, 2013, 3, 295.	1.6	25
60	Synthesis of CIGS thin film by solvothermal route. Optical Materials Express, 2013, 3, 54.	1.6	19
61	Nanostructure study of the coalescence growth of GaN columns with molecular beam epitaxy. Optical Materials Express, 2013, 3, 1450.	1.6	5
62	Effect of Catalyst Morphology on the Quality of CVD Grown Graphene. Journal of Nanomaterials, 2013, 2013, 1-6.	1.5	14
63	Visual perception enhancement for detection of cancerous oral tissue by multi-spectral imaging. Journal of Optics (United Kingdom), 2013, 15, 055301.	1.0	26
64	Crystallinity Improvement of ZnO Thin Film on Different Buffer Layers Grown by MBE. Journal of Nanomaterials, 2012, 2012, 1-7.	1.5	29
65	Optimal lighting of RGB LEDs for oral cavity detection. Optics Express, 2012, 20, 10186.	1.7	37
66	The Role of Growth-Pressure on the Determination of Anisotropy Properties in Nonpolarm-Plane GaN. ECS Journal of Solid State Science and Technology, 2012, 1, R50-R53.	0.9	4
67	Defect detection and property evaluation of indium tin oxide conducting glass using optical coherence tomography. Optics Express, 2011, 19, 7559.	1.7	23
68	Ultrafast ablation dynamics in fused silica with a white light beam probe. Optics Express, 2011, 19, 16390.	1.7	10
69	Suppression of surface recombination in surface plasmon coupling with an InGaN/GaN multiple quantum well sample. Optics Express, 2011, 19, 18893.	1.7	9
70	Optical properties of InGaN/GaN multiple quantum wells with trimethylindium treatment during growth interruption. Journal of Crystal Growth, 2011, 325, 41-45.	0.7	8
71	The impact of trimethylindium treatment time during growth interruption on the carrier dynamics of InGaN/GaN multiple quantum wells. Thin Solid Films, 2011, 519, 6092-6096.	0.8	12
72	Compact and vertically-aligned ZnO nanorod thin films by the low-temperature solution method. Thin Solid Films, 2010, 518, 4156-4162.	0.8	41

#	Article	IF	CITATIONS
73	Carrier dynamics in InGaN/GaN multiple quantum wells based on different polishing processes of sapphire substrate. Thin Solid Films, 2010, 518, 7291-7294.	0.8	6
74	Carrier dynamics in coalescence overgrowth of GaN nanocolumns. Thin Solid Films, 2010, 519, 863-867.	0.8	15
75	Carrier dynamics in GaN layers overgrown on nanocolumnar structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1856-1858.	0.8	0
76	Enhanced visualization of oral cavity for early inflamed tissue detection. Optics Express, 2010, 18, 11800.	1.7	27
77	Ultrafast Exciton Dynamics in a ZnO Thin Film. Japanese Journal of Applied Physics, 2009, 48, 022402.	0.8	5
78	Luminescence mechanism and carrier dynamic studies of InGaN-based dichromatic light emitting diodes with ultraviolet and blue emissions. Thin Solid Films, 2008, 517, 909-915.	0.8	9
79	Carrier trapping effects on photoluminescence decay time in InGaNâ^•GaN quantum wells with nanocluster structures. Journal of Applied Physics, 2007, 101, 063511.	1.1	13
80	Ultrafast pump-probe spectroscopy in the UV-blue range with an extremely broad probe spectrum for the carrier relaxation study in an InGaN thin film with indium-rich nano-clusters. Optics Express, 2007, 15, 3417.	1.7	3
81	Ultrafast Pump-probe Experiment Based on Extremely Broadband Second-harmonic Generation. , 2007, ,		0
82	Carrier capture times of the localized states in an InGaN thin film with indium-rich nanocluster structures. Applied Physics Letters, 2006, 89, 011906.	1.5	13
83	Depth dependence of optical property beyond the critical thickness of an InGaN film. Journal of Crystal Growth, 2006, 288, 18-22.	0.7	6
84	Ultrafast carrier dynamics in nano-clustered InGaN. , 2006, , .		0
85	Extremely broadband second-harmonic generation pumped by a 7 fs Ti:sapphire laser. , 2006, , .		Ο
86	Observations of exciton density of state variations in a ZnO thin film with fs pump-probe experiments. , 2005, , .		0
87	Monte Carlo simulation approach for a quantitative characterization of the band edge in InGaN quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1023-1026.	0.8	1
88	Photoluminescence temperature behavior and Monte Carlo simulation of exciton hopping in InGaN multiple quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 2809-2812.	0.8	4
89	Carrier localization effect in polarized InGaN multiple quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 2753-2756.	0.8	3
90	Ultrafast carrier dynamics in an InGaN thin film. Journal of Applied Physics, 2005, 97, 033704.	1.1	9

#	Article	IF	CITATIONS
91	Anomalous exciton lifetime increasing trend with temperature in ZnO thin films. , 2005, , .		0
92	Fs pump-probe spectroscopy on ZnO thin films. , 2005, , .		0
93	Non-degenerate fs pump-probe study in the UV-blue range with multi-wavelength second-harmonic generations. , 2005, , .		0
94	Non-degenerate fs pump-probe study on InGaN with multi-wavelength second-harmonic generation. Optics Express, 2005, 13, 5245.	1.7	11
95	Temperature-dependent exciton dynamics in a ZnO thin film. Applied Physics Letters, 2005, 87, 252117.	1.5	45
96	Ultrafast biexciton dynamics in a ZnO thin film. Applied Physics Letters, 2005, 87, 072103.	1.5	8
97	Carrier relaxation in InGaNâ^•GaN quantum wells with nanometer-scale cluster structures. Applied Physics Letters, 2004, 85, 1371-1373.	1.5	20
98	Thermal annealing effects on the optical properties of high-indium InGaN epi-layers. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 2654-2657.	0.8	0
99	Characteristics of amplified spontaneous emission of high indium content InGaN/GaN quantum wells with various silicon doping conditions. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 2670-2673.	0.8	0
100	Thermal annealing effects on an InGaN film with an average indium mole fraction of 0.31. Applied Physics Letters, 2003, 83, 3906-3908.	1.5	25
101	Indium aggregated quantum dot structures in InGaN compounds. , 0, , .		0
102	Effects of thermal annealing on InGaN/GaN quantum well structures with silicon doping. , 0, , .		0
103	Application of optical coherence tomography to monitoring the subsurface morphology of archaic jades. , 0, , .		0
104	Quantum dot structures and their optical properties of a high-indium InGaN film. , 0, , .		0
105	Femtosecond pump-probe studies on carrier dynamics in InGaN/GaN quantum wells with indium aggregated quantum dot structures. , 0, , .		0