

Shih-Chi Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4758489/publications.pdf>

Version: 2024-02-01

90
papers

3,165
citations

279701

23
h-index

168321

53
g-index

92
all docs

92
docs citations

92
times ranked

4459
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-shot optical sectioning microscopy based on structured illumination. Optics Letters, 2022, 47, 814.	1.7	4
2	Enhanced polarization demosaicking network via a precise angle of polarization loss calculation method. Optics Letters, 2022, 47, 1065.	1.7	18
3	Generation of dark solitons in a self-mode-locked Tm-Ho doped fiber laser. Infrared Physics and Technology, 2022, 121, 104043.	1.3	8
4	Advanced Optical Methods and Materials for Fabricating 3D Tissue Scaffolds. Light Advanced Manufacturing, 2022, 3, 1.	2.2	1
5	Generation of Q-switched and mode-locked pulses based on PbS/CdS saturable absorbers in an Er-doped fiber laser. Journal of Materials Chemistry C, 2022, 10, 5956-5961.	2.7	21
6	Self-calibration for Mueller polarimeters based on DoFP polarization imagers. Optics Letters, 2022, 47, 1415.	1.7	12
7	Polarimetric Imaging Through Scattering Media: A Review. Frontiers in Physics, 2022, 10, .	1.0	24
8	Effects of supra-wavelength periodic structures on the formation of 1D/2D periodic nanostructures by femtosecond lasers. Optics and Laser Technology, 2022, 151, 108058.	2.2	5
9	Underwater image restoration via Stokes decomposition. Optics Letters, 2022, 47, 2854.	1.7	18
10	Optimal nonlinear Stokesâ€“Mueller polarimetry for multi-photon processes. Optics Letters, 2022, 47, 3287.	1.7	6
11	Imaging post-mortem neurodegenerative human brains with serial sectioning optical coherence tomography. , 2022, , .		0
12	Current challenges and potential directions towards precision microscale additive manufacturing â€“ Part III: Energy induced deposition and hybrid electrochemical processes. Precision Engineering, 2021, 68, 174-186.	1.8	11
13	Light field microscopy based on structured light illumination. Optics Letters, 2021, 46, 3424.	1.7	15
14	Holography-based structured light illumination for temporal focusing microscopy. Optics Letters, 2021, 46, 3143.	1.7	3
15	Study of Optical Modulation based on Binary Masks with Finite Pixels. Optics and Lasers in Engineering, 2021, 142, 106604.	2.0	8
16	Fast 3D super-resolution imaging using a digital micromirror device and binary holography. Journal of Biomedical Optics, 2021, 26, .	1.4	1
17	Aberration-free large-area stitch-free 3D nano-printing based on binary holography. Optics Express, 2021, 29, 44250.	1.7	8
18	Development of a sensitive DMD-based 2D SPR sensor array using single-point detection strategy for multiple aptamer screening. Sensors and Actuators B: Chemical, 2020, 305, 127240.	4.0	4

#	ARTICLE	IF	CITATIONS
19	Design of a precision multi-layer roll-to-roll printing system. Precision Engineering, 2020, 66, 564-576.	1.8	14
20	Dual-beam stealth laser dicing based on electrically tunable lens. Precision Engineering, 2020, 66, 374-381.	1.8	7
21	Comment on "Rapid Assembly of Small Materials Building Blocks (Voxels) into Large Functional 3D Metamaterials", Advanced Functional Materials, 2020, 30, 2001060.	7.8	3
22	High-resolution 3D light-field imaging. Journal of Biomedical Optics, 2020, 25, .	1.4	4
23	Improving the characterization of ex vivo human brain optical properties using high numerical aperture optical coherence tomography by spatially constraining the confocal parameters. Neurophotonics, 2020, 7, 045005.	1.7	14
24	Formation of nanostructures and optical analogues of massless Dirac particles via femtosecond lasers. Optics Express, 2020, 28, 36109.	1.7	8
25	Aberration-free 3D imaging via DMD-based two-photon microscopy and sensorless adaptive optics. Optics Letters, 2020, 45, 2656.	1.7	12
26	Emerging micro-additive manufacturing technologies enabled by novel optical methods. Photonics Research, 2020, 8, 1827.	3.4	19
27	Design of a multi-modality DMD-based two-photon microscope system. Optics Express, 2020, 28, 30187.	1.7	2
28	Precision non-contact displacement sensor based on the near-field characteristics of fiber specklegrams. Sensors and Actuators A: Physical, 2019, 296, 1-6.	2.0	31
29	Multi-focus microscope with HiLo algorithm for fast 3-D fluorescent imaging. PLoS ONE, 2019, 14, e0222729.	1.1	11
30	Scalable submicrometer additive manufacturing. Science, 2019, 366, 105-109.	6.0	293
31	Emerging Technologies of Flexible Pressure Sensors: Materials, Modeling, Devices, and Manufacturing. Advanced Functional Materials, 2019, 29, 1808509.	7.8	316
32	Ultrafast multi-focus 3-D nano-fabrication based on two-photon polymerization. Nature Communications, 2019, 10, 2179.	5.8	222
33	Recent Advances in Surface Plasmon Resonance Imaging Sensors. Sensors, 2019, 19, 1266.	2.1	99
34	Protection of tissue physicochemical properties using polyfunctional crosslinkers. Nature Biotechnology, 2019, 37, 73-83.	9.4	262
35	Arbitrary amplitude femtosecond pulse shaping via a digital micromirror device. Journal of Innovative Optical Health Sciences, 2019, 12, 1840002.	0.5	0
36	Sectioning soft materials with an oscillating blade. Precision Engineering, 2019, 56, 96-100.	1.8	10

#	ARTICLE	IF	CITATIONS
37	Spatially resolved random-access pump-probe microscopy based on binary holography. Optics Letters, 2019, 44, 4083.	1.7	9
38	Compressive sensing for fast 3-D and random-access two-photon microscopy. Optics Letters, 2019, 44, 4343.	1.7	10
39	Fast Two-snapshot Structured Illumination for Wide-field Two-photon Microscopy with Enhanced Axial Resolution and Signal-to-noise Ratio. , 2019, , .		0
40	Textile-Enabled Highly Reproducible Flexible Pressure Sensors for Cardiovascular Monitoring. Advanced Materials Technologies, 2018, 3, 1700222.	3.0	72
41	Ultrafast laser-enabled 3D metal printing: A solution to fabricate arbitrary submicron metal structures. Precision Engineering, 2018, 52, 106-111.	1.8	8
42	Alignment-Free Liquid-Capsule Pressure Sensor for Cardiovascular Monitoring. Advanced Functional Materials, 2018, 28, 1805045.	7.8	52
43	Compact high-resolution endomicroscopy based on fiber bundles and image stitching. Optics Letters, 2018, 43, 4168.	1.7	13
44	In-situ ultrasensitive label-free DNA hybridization detection using optical fiber specklegram. Sensors and Actuators B: Chemical, 2018, 272, 160-165.	4.0	36
45	Wood Derived Composites for High Sensitivity and Wide Linear-Range Pressure Sensing. Small, 2018, 14, e1801520.	5.2	79
46	Photoactivation of Extracellular-Signal-Regulated Kinase Signaling in Target Cells by Femtosecond Laser. Laser and Photonics Reviews, 2018, 12, 1700137.	4.4	8
47	Real-time multi-channel SPR sensing based on DMD-enabled angular interrogation. Optics Express, 2018, 26, 24627.	1.7	17
48	Parallel femtosecond laser light sheet micro-manufacturing based on temporal focusing. Precision Engineering, 2017, 50, 198-203.	1.8	12
49	A Mid-Infrared Fiber-Coupled QEPAS Nitric Oxide Sensor for Real-Time Engine Exhaust Monitoring. IEEE Sensors Journal, 2017, 17, 7418-7424.	2.4	30
50	Hollow-Structured Graphene-Silicone-Composite-Based Piezoresistive Sensors: Decoupled Property Tuning and Bending Reliability. Advanced Materials, 2017, 29, 1702675.	11.1	213
51	Sliding Mode Control for Discrete-Time Systems With Markovian Packet Dropouts. IEEE Transactions on Cybernetics, 2017, 47, 3669-3679.	6.2	45
52	Microstructured optical fiber for multichannel sensing based on Fano resonance of the whispering gallery modes. Optics Express, 2017, 25, 994.	1.7	15
53	Hybrid imprinting process to fabricate a multi-layer compound eye for multispectral imaging. Optics Express, 2017, 25, 4180.	1.7	20
54	High-resolution compact spectrometer based on a custom-printed varied-line-spacing concave blazed grating. Optics Express, 2017, 25, 12446.	1.7	18

#	ARTICLE	IF	CITATIONS
55	Fast two-snapshot structured illumination for temporal focusing microscopy with enhanced axial resolution. Optics Express, 2017, 25, 23109.	1.7	20
56	Digital micromirror device-based two-photon microscopy for three-dimensional and random-access imaging. Optica, 2017, 4, 674.	4.8	46
57	Synchronization-free light sheet microscopy based on a 2D phase mask. Optica, 2017, 4, 1030.	4.8	4
58	DMD-based two-photon random-access imaging and optical stimulation for neuroimaging applications. , 2017, , .		0
59	High-speed 3D imaging based on structured illumination and electrically tunable lens. Chinese Optics Letters, 2017, 15, 090004.	1.3	4
60	Sync-free light sheet microscopy based on a 2-D phase mask. , 2017, , .		0
61	DMD-based Ultrafast Femtosecond Laser Beam Shaping and Its Applications in Two-photon Microscopy. , 2017, , .		0
62	DMD-based Random-access Scanning and Its Applications in Two-photon Microscopy. , 2017, , .		0
63	Flexible Piezoresistive Sensor Patch Enabling Ultralow Power Cuffless Blood Pressure Measurement. Advanced Functional Materials, 2016, 26, 1178-1187.	7.8	367
64	Wearable Sensors: Flexible Piezoresistive Sensor Patch Enabling Ultralow Power Cuffless Blood Pressure Measurement (Adv. Funct. Mater. 8/2016). Advanced Functional Materials, 2016, 26, 1303-1303.	7.8	9
65	Flexure-based dynamic-tunable five-axis nanopositioner for parallel nanomanufacturing. Precision Engineering, 2016, 45, 423-434.	1.8	11
66	Precision design and control of a flexure-based roll-to-roll printing system. Precision Engineering, 2016, 45, 332-341.	1.8	24
67	Ultrafast axial scanning for two-photon microscopy via a digital micromirror device and binary holography. Optics Letters, 2016, 41, 1451.	1.7	20
68	Precision UV imprinting system for parallel fabrication of large-area micro-lens arrays on non-planar surfaces. Precision Engineering, 2016, 44, 70-74.	1.8	27
69	Flexure-based Roll-to-roll Platform: A Practical Solution for Realizing Large-area Microcontact Printing. Scientific Reports, 2015, 5, 10402.	1.6	36
70	High-speed femtosecond laser beam shaping based on binary holography using a digital micromirror device. Optics Letters, 2015, 40, 4875.	1.7	38
71	Droplet-based dielectrophoresis device for on-chip nanomedicine fabrication and improved gene delivery efficiency. Microfluidics and Nanofluidics, 2015, 19, 235-243.	1.0	6
72	A flow-free droplet-based device for high throughput polymorphic crystallization. Lab on A Chip, 2015, 15, 2680-2687.	3.1	15

#	ARTICLE	IF	CITATIONS
73	Fast 3-D temporal focusing microscopy using an electrically tunable lens. Optics Express, 2015, 23, 24362.	1.7	63
74	Soft mold-based hot embossing process for precision imprinting of optical components on non-planar surfaces. Optics Express, 2015, 23, 20977.	1.7	22
75	Digital micromirror device-based ultrafast pulse shaping for femtosecond laser. Optics Letters, 2015, 40, 2870.	1.7	24
76	Femtosecond laser pulse shaping at megahertz rate via a digital micromirror device. Optics Letters, 2015, 40, 4018.	1.7	9
77	Design of a tunable resonant micromirror. Sensors and Actuators A: Physical, 2015, 234, 72-81.	2.0	4
78	Correction to "Design of Contoured Thermomechanical Actuators and Pulsing Actuation to Enhance Dynamic Performance" [Apr 12 340-349]. Journal of Microelectromechanical Systems, 2014, 23, 500-500.	1.7	1
79	Thermomechanical Actuator-Based Three-Axis Optical Scanner for High-Speed Two-Photon Endomicroscope Imaging. Journal of Microelectromechanical Systems, 2014, 23, 570-578.	1.7	11
80	Self-Rotation of Cells in an Irrotational AC E-Field in an Opto-Electrokinetics Chip. PLoS ONE, 2013, 8, e51577.	1.1	50
81	Functional Characterization of a PEI-CyD-FA-Coated Adenovirus as Delivery Vector for Gene Therapy. Current Medicinal Chemistry, 2013, 20, 2601-2608.	1.2	13
82	Heat shock protein 27 mediates the effect of 1,3,5-trihydroxy-13,13-dimethyl-2H-pyran [7,6-b] xanthone on mitochondrial apoptosis in hepatocellular carcinoma. Journal of Proteomics, 2012, 75, 4833-4843.	1.2	38
83	Apoptosis induced by 1,3,6,7-tetrahydroxyxanthone in Hepatocellular carcinoma and proteomic analysis. Apoptosis: an International Journal on Programmed Cell Death, 2012, 17, 842-851.	2.2	34
84	Design of Contoured Thermomechanical Actuators and Pulsing Actuation to Enhance Dynamic Performance. Journal of Microelectromechanical Systems, 2012, 21, 340-349.	1.7	9
85	Characterization of a Multiphoton Endomicroscope. , 2008, , .		0
86	Six-axis compliant mechanisms for manipulation of micro-scale fiber optics components. , 2007, , .		1
87	Design of a six-axis micro-scale nanopositioner "HexFlex. Precision Engineering, 2006, 30, 314-324.	1.8	96
88	Design of a Non-linear Endomicroscope Biopsy Probe. , 2006, , .		2
89	Design and Optimization of Thermomechanical Actuator via Contour Shaping. , 2005, , .		3
90	Design of an Ultra Precision Diaphragm Flexure Stage for Out-of-Plane Motion Guidance. , 2004, , 1015.		6