

Shih-Chi Chen

List of Publications by Year in descending order

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docs citations

92
times ranked

4459
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Piezoresistive Sensor Patch Enabling Ultralow Power Cuffless Blood Pressure Measurement. <i>Advanced Functional Materials</i> , 2016, 26, 1178-1187.	7.8	367
2	Emerging Technologies of Flexible Pressure Sensors: Materials, Modeling, Devices, and Manufacturing. <i>Advanced Functional Materials</i> , 2019, 29, 1808509.	7.8	316
3	Scalable submicrometer additive manufacturing. <i>Science</i> , 2019, 366, 105-109.	6.0	293
4	Protection of tissue physicochemical properties using polyfunctional crosslinkers. <i>Nature Biotechnology</i> , 2019, 37, 73-83.	9.4	262
5	Ultrafast multi-focus 3-D nano-fabrication based on two-photon polymerization. <i>Nature Communications</i> , 2019, 10, 2179.	5.8	222
6	Hollow-Structured Graphene-Silicone Composite-Based Piezoresistive Sensors: Decoupled Property Tuning and Bending Reliability. <i>Advanced Materials</i> , 2017, 29, 1702675.	11.1	213
7	Recent Advances in Surface Plasmon Resonance Imaging Sensors. <i>Sensors</i> , 2019, 19, 1266.	2.1	99
8	Design of a six-axis micro-scale nanopositioner-1/4HexFlex. <i>Precision Engineering</i> , 2006, 30, 314-324.	1.8	96
9	Wood Derived Composites for High Sensitivity and Wide Linear-Range Pressure Sensing. <i>Small</i> , 2018, 14, e1801520.	5.2	79
10	Textile-Enabled Highly Reproducible Flexible Pressure Sensors for Cardiovascular Monitoring. <i>Advanced Materials Technologies</i> , 2018, 3, 1700222.	3.0	72
11	Fast 3-D temporal focusing microscopy using an electrically tunable lens. <i>Optics Express</i> , 2015, 23, 24362.	1.7	63
12	Alignment-Free Liquid-Capsule Pressure Sensor for Cardiovascular Monitoring. <i>Advanced Functional Materials</i> , 2018, 28, 1805045.	7.8	52
13	Self-Rotation of Cells in an Irrotational AC E-Field in an Opto-Electrokinetics Chip. <i>PLoS ONE</i> , 2013, 8, e51577.	1.1	50
14	Digital micromirror device-based two-photon microscopy for three-dimensional and random-access imaging. <i>Optica</i> , 2017, 4, 674.	4.8	46
15	Sliding Mode Control for Discrete-Time Systems With Markovian Packet Dropouts. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 3669-3679.	6.2	45
16	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. <i>Journal of Proteomics</i> , 2012, 75, 4833-4843.	1.2	38
17	High-speed femtosecond laser beam shaping based on binary holography using a digital micromirror device. <i>Optics Letters</i> , 2015, 40, 4875.	1.7	38
18	Flexure-based Roll-to-roll Platform: A Practical Solution for Realizing Large-area Microcontact Printing. <i>Scientific Reports</i> , 2015, 5, 10402.	1.6	36

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19	In-situ ultrasensitive label-free DNA hybridization detection using optical fiber specklegram. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 160-165.	4.0	36
20	Apoptosis induced by 1,3,6,7-tetrahydroxyxanthone in Hepatocellular carcinoma and proteomic analysis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2012, 17, 842-851.	2.2	34
21	Precision non-contact displacement sensor based on the near-field characteristics of fiber specklegrams. <i>Sensors and Actuators A: Physical</i> , 2019, 296, 1-6.	2.0	31
22	A Mid-Infrared Fiber-Coupled QEPAS Nitric Oxide Sensor for Real-Time Engine Exhaust Monitoring. <i>IEEE Sensors Journal</i> , 2017, 17, 7418-7424.	2.4	30
23	Precision UV imprinting system for parallel fabrication of large-area micro-lens arrays on non-planar surfaces. <i>Precision Engineering</i> , 2016, 44, 70-74.	1.8	27
24	Digital micromirror device-based ultrafast pulse shaping for femtosecond laser. <i>Optics Letters</i> , 2015, 40, 2870.	1.7	24
25	Precision design and control of a flexure-based roll-to-roll printing system. <i>Precision Engineering</i> , 2016, 45, 332-341.	1.8	24
26	Polarimetric Imaging Through Scattering Media: A Review. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	24
27	Soft mold-based hot embossing process for precision imprinting of optical components on non-planar surfaces. <i>Optics Express</i> , 2015, 23, 20977.	1.7	22
28	Generation of Q-switched and mode-locked pulses based on PbS/CdS saturable absorbers in an Er-doped fiber laser. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5956-5961.	2.7	21
29	Ultrafast axial scanning for two-photon microscopy via a digital micromirror device and binary holography. <i>Optics Letters</i> , 2016, 41, 1451.	1.7	20
30	Hybrid imprinting process to fabricate a multi-layer compound eye for multispectral imaging. <i>Optics Express</i> , 2017, 25, 4180.	1.7	20
31	Fast two-snapshot structured illumination for temporal focusing microscopy with enhanced axial resolution. <i>Optics Express</i> , 2017, 25, 23109.	1.7	20
32	Emerging micro-additive manufacturing technologies enabled by novel optical methods. <i>Photonics Research</i> , 2020, 8, 1827.	3.4	19
33	High-resolution compact spectrometer based on a custom-printed varied-line-spacing concave blazed grating. <i>Optics Express</i> , 2017, 25, 12446.	1.7	18
34	Enhanced polarization demosaicking network via a precise angle of polarization loss calculation method. <i>Optics Letters</i> , 2022, 47, 1065.	1.7	18
35	Underwater image restoration via Stokes decomposition. <i>Optics Letters</i> , 2022, 47, 2854.	1.7	18
36	Real-time multi-channel SPR sensing based on DMD-enabled angular interrogation. <i>Optics Express</i> , 2018, 26, 24627.	1.7	17

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37	A flow-free droplet-based device for high throughput polymorphic crystallization. Lab on A Chip, 2015, 15, 2680-2687.	3.1	15
38	Microstructured optical fiber for multichannel sensing based on Fano resonance of the whispering gallery modes. Optics Express, 2017, 25, 994.	1.7	15
39	Light field microscopy based on structured light illumination. Optics Letters, 2021, 46, 3424.	1.7	15
40	Design of a precision multi-layer roll-to-roll printing system. Precision Engineering, 2020, 66, 564-576.	1.8	14
41	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
42	Compact high-resolution endomicroscopy based on fiber bundles and image stitching. Optics Letters, 2018, 43, 4168.	1.7	13
43	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
44	Parallel femtosecond laser light sheet micro-manufacturing based on temporal focusing. Precision Engineering, 2017, 50, 198-203.	1.8	12
45	Aberration-free 3D imaging via DMD-based two-photon microscopy and sensorless adaptive optics. Optics Letters, 2020, 45, 2656.	1.7	12
46	Self-calibration for Mueller polarimeters based on DoFP polarization imagers. Optics Letters, 2022, 47, 1415.	1.7	12
47	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
48	Flexure-based dynamic-tunable five-axis nanopositioner for parallel nanomanufacturing. Precision Engineering, 2016, 45, 423-434.	1.8	11
49	Multi-focus microscope with HiLo algorithm for fast 3-D fluorescent imaging. PLoS ONE, 2019, 14, e0222729.	1.1	11
50	Current challenges and potential directions towards precision microscale additive manufacturing – Part III: Energy induced deposition and hybrid electrochemical processes. Precision Engineering, 2021, 68, 174-186.	1.8	11
51	Sectioning soft materials with an oscillating blade. Precision Engineering, 2019, 56, 96-100.	1.8	10
52	Compressive sensing for fast 3-D and random-access two-photon microscopy. Optics Letters, 2019, 44, 4343.	1.7	10
53	Design of Contoured Thermomechanical Actuators and Pulsing Actuation to Enhance Dynamic Performance. Journal of Microelectromechanical Systems, 2012, 21, 340-349.	1.7	9
54	Femtosecond laser pulse shaping at megahertz rate via a digital micromirror device. Optics Letters, 2015, 40, 4018.	1.7	9

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55	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
56	Spatially resolved random-access pump-probe microscopy based on binary holography. Optics Letters, 2019, 44, 4083.	1.7	9
57	Ultrafast laser-enabled 3D metal printing: A solution to fabricate arbitrary submicron metal structures. Precision Engineering, 2018, 52, 106-111.	1.8	8
58	Photoactivation of Extracellularâ€Signalâ€Regulated Kinase Signaling in Target Cells by Femtosecond Laser. Laser and Photonics Reviews, 2018, 12, 1700137.	4.4	8
59	Study of Optical Modulation based on Binary Masks with Finite Pixels. Optics and Lasers in Engineering, 2021, 142, 106604.	2.0	8
60	Formation of nanostructures and optical analogues of massless Dirac particles via femtosecond lasers. Optics Express, 2020, 28, 36109.	1.7	8
61	Generation of dark solitons in a self-mode-locked Tm-Ho doped fiber laser. Infrared Physics and Technology, 2022, 121, 104043.	1.3	8
62	Aberration-free large-area stitch-free 3D nano-printing based on binary holography. Optics Express, 2021, 29, 44250.	1.7	8
63	Dual-beam stealth laser dicing based on electrically tunable lens. Precision Engineering, 2020, 66, 374-381.	1.8	7
64	Design of an Ultra Precision Diaphragm Flexure Stage for Out-of-Plane Motion Guidance. , 2004, , 1015.		6
65	Droplet-based dielectrophoresis device for on-chip nanomedicine fabrication and improved gene delivery efficiency. Microfluidics and Nanofluidics, 2015, 19, 235-243.	1.0	6
66	Optimal nonlinear Stokesâ€Mueller polarimetry for multi-photon processes. Optics Letters, 2022, 47, 3287.	1.7	6
67	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
68	Design of a tunable resonant micromirror. Sensors and Actuators A: Physical, 2015, 234, 72-81.	2.0	4
69	Synchronization-free light sheet microscopy based on a 2D phase mask. Optica, 2017, 4, 1030.	4.8	4
70	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
71	High-resolution 3D light-field imaging. Journal of Biomedical Optics, 2020, 25, .	1.4	4
72	High-speed 3D imaging based on structured illumination and electrically tunable lens. Chinese Optics Letters, 2017, 15, 090004.	1.3	4

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73	Single-shot optical sectioning microscopy based on structured illumination. Optics Letters, 2022, 47, 814.	1.7	4
74	Comment on "Rapid Assembly of Small Materials Building Blocks (Voxels) into Large Functional 3D Metamaterials". Advanced Functional Materials, 2020, 30, 2001060.	7.8	3
75	Holography-based structured light illumination for temporal focusing microscopy. Optics Letters, 2021, 46, 3143.	1.7	3
76	Design and Optimization of Thermomechanical Actuator via Contour Shaping. , 2005, , .		3
77	Design of a Non-linear Endomicroscope Biopsy Probe. , 2006, , .		2
78	Design of a multi-modality DMD-based two-photon microscope system. Optics Express, 2020, 28, 30187.	1.7	2
79	Six-axis compliant mechanisms for manipulation of micro-scale fiber optics components. , 2007, , .		1
80	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
81	Fast 3D super-resolution imaging using a digital micromirror device and binary holography. Journal of Biomedical Optics, 2021, 26, .	1.4	1
82	Advanced Optical Methods and Materials for Fabricating 3D Tissue Scaffolds. Light Advanced Manufacturing, 2022, 3, 1.	2.2	1
83	Characterization of a Multiphoton Endomicroscope. , 2008, , .		0
84	DMD-based two-photon random-access imaging and optical stimulation for neuroimaging applications. , 2017, , .		0
85	Arbitrary amplitude femtosecond pulse shaping via a digital micromirror device. Journal of Innovative Optical Health Sciences, 2019, 12, 1840002.	0.5	0
86	Sync-free light sheet microscopy based on a 2-D phase mask. , 2017, , .		0
87	DMD-based Ultrafast Femtosecond Laser Beam Shaping and Its Applications in Two-photon Microscopy. , 2017, , .		0
88	DMD-based Random-access Scanning and Its Applications in Two-photon Microscopy. , 2017, , .		0
89	Fast Two-snapshot Structured Illumination for Wide-field Two-photon Microscopy with Enhanced Axial Resolution and Signal-to-noise Ratio. , 2019, , .		0
90	Imaging post-mortem neurodegenerative human brains with serial sectioning optical coherence tomography. , 2022, , .		0