

Michael W Kudenov

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

2,393
citations

331670

21
h-index

214800

47
g-index

99
all docs

99
docs citations

99
times ranked

2409
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of snapshot spectral imaging technologies. <i>Optical Engineering</i> , 2013, 52, 090901.	1.0	505
2	Fabrication of ideal geometric-phase holograms with arbitrary wavefronts. <i>Optica</i> , 2015, 2, 958.	9.3	320
3	Wide field-of-view, multi-region, two-photon imaging of neuronal activity in the mammalian brain. <i>Nature Biotechnology</i> , 2016, 34, 857-862.	17.5	277
4	White-light channeled imaging polarimeter using broadband polarization gratings. <i>Applied Optics</i> , 2011, 50, 2283.	2.1	114
5	Fourier transform channeled spectropolarimetry in the MWIR. <i>Optics Express</i> , 2007, 15, 12792.	3.4	101
6	Compact real-time birefringent imaging spectrometer. <i>Optics Express</i> , 2012, 20, 17973.	3.4	85
7	Atomically Thin MoS ₂ Narrowband and Broadband Light Superabsorbers. <i>ACS Nano</i> , 2016, 10, 7493-7499.	14.6	82
8	Snapshot imaging Mueller matrix polarimeter using polarization gratings. <i>Optics Letters</i> , 2012, 37, 1367.	3.3	81
9	Compact and miniature snapshot imaging polarimeter. <i>Applied Optics</i> , 2008, 47, 4413.	2.1	80
10	Infrared hyperspectral imaging polarimeter using birefringent prisms. <i>Applied Optics</i> , 2011, 50, 1170.	2.1	75
11	Controlling Light with Geometric-Phase Holograms. <i>Optics and Photonics News</i> , 2016, 27, 22.	0.5	65
12	Mantis shrimp-inspired organic photodetector for simultaneous hyperspectral and polarimetric imaging. <i>Science Advances</i> , 2021, 7, .	10.3	51
13	Imaging linear and circular polarization features in leaves with complete Mueller matrix polarimetry. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1350-1363.	2.4	43
14	Practical Spectral Photography. <i>Computer Graphics Forum</i> , 2012, 31, 449-458.	3.0	42
15	White light Sagnac interferometer for snapshot linear polarimetric imaging. <i>Optics Express</i> , 2009, 17, 22520.	3.4	38
16	Shear-Enhanced Transfer Printing of Conducting Polymer Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31560-31567.	8.0	34
17	White-light Sagnac interferometer for snapshot multispectral imaging. <i>Applied Optics</i> , 2010, 49, 4067.	2.1	30
18	Prismatic imaging polarimeter calibration for the infrared spectral region. <i>Optics Express</i> , 2008, 16, 13720.	3.4	28

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19	Panchromatic All-Polymer Photodetector with Tunable Polarization Sensitivity. <i>Advanced Optical Materials</i> , 2019, 7, 1801346.	7.3	26
20	Organic photovoltaic cells with controlled polarization sensitivity. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	25
21	Spatial heterodyne interferometry with polarization gratings. <i>Optics Letters</i> , 2012, 37, 4413.	3.3	23
22	Intrinsic coincident linear polarimetry using stacked organic photovoltaics. <i>Optics Express</i> , 2016, 24, 14737.	3.4	16
23	On the Exploitation of Mid-infrared Iridescence of Plumage for Remote Classification of Nocturnal Migrating Birds. <i>Applied Spectroscopy</i> , 2013, 67, 477-490.	2.2	15
24	Athermalized channeled spectropolarimetry using a biaxial potassium titanyl phosphate crystal. <i>Optics Letters</i> , 2013, 38, 1657.	3.3	14
25	Field deployable pushbroom hyperspectral imaging polarimeter. <i>Optical Engineering</i> , 2017, 56, 1.	1.0	14
26	Faceted grating prism for a computed tomographic imaging spectrometer. <i>Optical Engineering</i> , 2012, 51, 044002.	1.0	13
27	In-Plane Alignment in Organic Solar Cells to Probe the Morphological Dependence of Charge Recombination. <i>Advanced Functional Materials</i> , 2015, 25, 1296-1303.	14.9	12
28	Spatially heterodyned snapshot imaging spectrometer. <i>Applied Optics</i> , 2016, 55, 8667.	2.1	10
29	Neural network calibration of a snapshot birefringent Fourier transform spectrometer with periodic phase errors. <i>Optics Express</i> , 2016, 24, 11266.	3.4	10
30	Computer vision approach to characterize size and shape phenotypes of horticultural crops using high-throughput imagery. <i>Computers and Electronics in Agriculture</i> , 2021, 182, 106011.	7.7	10
31	Achromatic Wollaston prism beam splitter using polarization gratings. <i>Optics Letters</i> , 2016, 41, 4461.	3.3	9
32	Mueller matrix polarimetry on plasma sprayed thermal barrier coatings for porosity measurement. <i>Applied Optics</i> , 2017, 56, 9770.	1.8	8
33	Initial orbit determination using Doppler shift of Fraunhofer lines. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2018, 130, 1.	1.4	8
34	Dual-beam potassium Voigt filter for atomic line imaging. <i>Applied Optics</i> , 2020, 59, 5282.	1.8	8
35	False signature reduction in infrared channeled spectropolarimetry. , 2009, , .		7
36	Compact infrared hyperspectral imaging polarimeter. <i>Proceedings of SPIE</i> , 2010, , .	0.8	7

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37	Snapshot channeled imaging spectrometer using geometric phase holograms. Optics Express, 2019, 27, 15444.	3.4	7
38	Ultra-High Alignment of Polymer Semiconductor Blends Enabling Photodetectors with Exceptional Polarization Sensitivity. Advanced Functional Materials, 2022, 32, 2105820.	14.9	7
39	Organic-based photodetectors for multiband spectral imaging. Applied Optics, 2021, 60, 2314.	1.8	6
40	Compact snapshot birefringent imaging Fourier transform spectrometer. , 2010, , .		5
41	Polarization spatial heterodyne interferometer: model and calibration. Optical Engineering, 2014, 53, 044104.	1.0	5
42	Wide Field-Of-View, Multi-Region Two-Photon Imaging of Neuronal Activity In Vivo. , 2016, , .		5
43	Compact snapshot real-time imaging spectrometer. , 2011, , .		4
44	Design and application of the snapshot hyperspectral imaging Fourier transform (SHIFT) spectropolarimeter for fluorescence imaging. , 2014, , .		4
45	Snapshot imaging spectrometry with a heterodyned Savart plate interferometer. Optical Engineering, 2017, 56, 081806.	1.0	4
46	A handheld 1D transparent CMUT array probe for photoacoustic imaging: Preliminary results. , 2017, , .		4
47	Practical spectral photography II: snapshot spectral imaging using linear retarders and microgrid polarization cameras. Optics Express, 2022, 30, 12337.	3.4	4
48	Spectrally broadband channeled imaging polarimeter using polarization gratings. Proceedings of SPIE, 2011, , .	0.8	3
49	Compact snapshot birefringent imaging Fourier transform spectrometer for remote sensing and endoscopy. Proceedings of SPIE, 2012, , .	0.8	3
50	Snapshot imaging Mueller matrix instrument. , 2013, , .		3
51	Thermally stable imaging channeled spectropolarimetry. , 2013, , .		3
52	Optical crosstalk and off-axis modeling of an intrinsic coincident polarimeter. Applied Optics, 2020, 59, 156.	1.8	3
53	StarNAV with a wide field-of-view optical sensor. Acta Astronautica, 2022, 197, 220-234.	3.2	3
54	Compact spatial heterodyne interferometer using polarization gratings. Proceedings of SPIE, 2013, , .	0.8	2

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55	<i>In situ</i> fringe projector development for thermal coating deposition. <i>Optical Engineering</i> , 2014, 53, 074105.	1.0	2
56	Ultraspectral imaging and the snapshot advantage. , 2015, , .		2
57	Maximum bandwidth snapshot channeled imaging polarimeter with polarization gratings. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
58	Imaging of in vitro parenteral drug precipitation. <i>International Journal of Pharmaceutics</i> , 2016, 512, 219-223.	5.2	2
59	Internal defect scanning of sweetpotatoes using interactance spectroscopy. <i>PLoS ONE</i> , 2021, 16, e0246872.	2.5	2
60	Bio-inspired spectropolarimetric sensor based on tandem organic photodetectors and multi-twist liquid crystals. <i>Optics Express</i> , 2021, 29, 43953.	3.4	2
61	Aircraft skin defect localization using imaging polarimetry. <i>Optical Engineering</i> , 2018, 57, 1.	1.0	2
62	Design and fabrication of an aspheric geometric-phase lens doublet. , 2018, , .		2
63	Infrared Stokes imaging polarimeter using microbolometers. , 2009, , .		1
64	White-light Sagnac interferometer for snapshot polarimetric and multispectral imaging. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
65	Snapshot imaging Fraunhofer line discriminator. , 2014, , .		1
66	Snapshot retinal imaging Mueller matrix polarimeter. <i>Proceedings of SPIE</i> , 2015, 9613, .	0.8	1
67	Phase correction algorithms for a snapshot hyperspectral imaging system. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
68	Field deployable pushbroom hyperspectral imaging polarimeter. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
69	Narrowband emission line imaging spectrometry using Savart plates. , 2016, , .		1
70	Snapshot spectrally resolved longitudinal spatial coherence interferometry. <i>Optical Engineering</i> , 2017, 56, 064104.	1.0	1
71	A handheld 1D transparent CMUT array probe for photoacoustic imaging. , 2017, , .		1
72	Quantification of gray mold infection in lettuce using a bispectral imaging system under laboratory conditions. <i>Plant Direct</i> , 2021, 5, e00317.	1.9	1

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73	Fieldable Mueller matrix imaging spectropolarimeter using a hybrid spatial and temporal modulation scheme. , 2021, , .		1
74	Computer vision for detecting field-evolved lepidopteran resistance to Bt maize. Pest Management Science, 2021, 77, 5236-5245.	3.4	1
75	Fraunhofer line optical correlator for improvement of initial orbit determination. , 2017, , .		1
76	Intrinsic coincident full-Stokes polarimeter using stacked organic photovoltaics and architectural comparison of polarimeter techniques. , 2017, , .		1
77	Microbolometer with a multi-aperture polymer thin-film array for neural-network-based target identification. Applied Optics, 2019, 58, 7285.	1.8	1
78	Dual-beam cross-correlation spectrometer for radial velocity measurements. Applied Optics, 2019, 58, 9310.	1.8	1
79	Preliminary results from an infrared hyperspectral imaging polarimeter. , 2011, , .		0
80	Birefringent snapshot imaging spatial heterodyne spectrometer. Proceedings of SPIE, 2014, , .	0.8	0
81	Phase error in Fourier transform spectrometers employing polarization interferometers. Proceedings of SPIE, 2014, , .	0.8	0
82	Passive standoff imaging using spatial-spectral multiplexing. Proceedings of SPIE, 2015, , .	0.8	0
83	A reconstruction algorithm for three-dimensional object-space data using spatial-spectral multiplexing. Proceedings of SPIE, 2017, , .	0.8	0
84	Spectrally resolved longitudinal spatial coherence inteferometry. , 2017, , .		0
85	Supervised non-negative tensor factorization for automatic hyperspectral feature extraction and target discrimination. , 2017, , .		0
86	Snapshot spectral imaging using Solc-based multivariate optical filters and pixelated polarization cameras. , 2021, , .		0
87	Imaging Spectrometers and Polarimeters. , 2011, , .		0
88	Enabling compact, high resolution spectrometry. SPIE Newsroom, 0, , .	0.1	0
89	Snapshot hyperspectral imaging Fourier transform spectropolarimeter. , 2017, , .		0
90	Synthetic neural network calibration of a hyperspectral imaging camera. , 2018, , .		0

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91	Monolithic intrinsic Coincident polarimeter using organic photovoltaics. , 2018, , .		0
92	Channeled polarimetry using spectrally resolved longitudinal spatial coherence interferometry. , 2018, , .		0
93	Optimization of aspheric geometric-phase lenses for improved field-of-view. , 2018, , .		0
94	Special Section Guest Editorial: Polarization: Systems, Measurement, Analysis, and Remote Sensing. Optical Engineering, 2019, 58, 1.	1.0	0
95	Phase-shifting interferometry in fiber-based channeled spectropolarimetry. , 2019, , .		0
96	Direct correlation spectrometer using polarized light. , 2019, , .		0
97	Thermal stabilization of a fiber-based channeled spectropolarimetry. Optical Engineering, 2019, 58, 1.	1.0	0
98	Optimization of an intrinsic coincident polarimeter and quantitative architectural comparison of different polarimeter techniques. Optical Engineering, 2020, 59, 1.	1.0	0