

Michael W Kudenov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/287758/publications.pdf>

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	Ultra-High Alignment of Polymer Semiconductor Blends Enabling Photodetectors with Exceptional Polarization Sensitivity. <i>Advanced Functional Materials</i> , 2022, 32, 2105820.	14.9	7
2	Practical spectral photography II: snapshot spectral imaging using linear retarders and microgrid polarization cameras. <i>Optics Express</i> , 2022, 30, 12337.	3.4	4
3	StarNAV with a wide field-of-view optical sensor. <i>Acta Astronautica</i> , 2022, 197, 220-234.	3.2	3
4	Internal defect scanning of sweetpotatoes using interactance spectroscopy. <i>PLoS ONE</i> , 2021, 16, e0246872.	2.5	2
5	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
6	Mantis shrimp-inspired organic photodetector for simultaneous hyperspectral and polarimetric imaging. <i>Science Advances</i> , 2021, 7, .	10.3	51
7	Organic-based photodetectors for multiband spectral imaging. <i>Applied Optics</i> , 2021, 60, 2314.	1.8	6
8	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
9	Fieldable Mueller matrix imaging spectropolarimeter using a hybrid spatial and temporal modulation scheme. , 2021, , .		1
10	Snapshot spectral imaging using Solc-based multivariate optical filters and pixelated polarization cameras. , 2021, , .		0
11	Computer vision for detecting field-evolved lepidopteran resistance to Bt maize. <i>Pest Management Science</i> , 2021, 77, 5236-5245.	3.4	1
12	Bio-inspired spectropolarimetric sensor based on tandem organic photodetectors and multi-twist liquid crystals. <i>Optics Express</i> , 2021, 29, 43953.	3.4	2
13	Dual-beam potassium Voigt filter for atomic line imaging. <i>Applied Optics</i> , 2020, 59, 5282.	1.8	8
14	Optical crosstalk and off-axis modeling of an intrinsic coincident polarimeter. <i>Applied Optics</i> , 2020, 59, 156.	1.8	3
15	Optimization of an intrinsic coincident polarimeter and quantitative architectural comparison of different polarimeter techniques. <i>Optical Engineering</i> , 2020, 59, 1.	1.0	0
16	Panchromatic All-Polymer Photodetector with Tunable Polarization Sensitivity. <i>Advanced Optical Materials</i> , 2019, 7, 1801346.	7.3	26
17	Snapshot channeled imaging spectrometer using geometric phase holograms. <i>Optics Express</i> , 2019, 27, 15444.	3.4	7
18	Special Section Guest Editorial: Polarization: Systems, Measurement, Analysis, and Remote Sensing. <i>Optical Engineering</i> , 2019, 58, 1.	1.0	0

#	ARTICLE	IF	CITATIONS
19	Phase-shifting interferometry in fiber-based channeled spectropolarimetry. , 2019, , .		0
20	Microbolometer with a multi-aperture polymer thin-film array for neural-network-based target identification. Applied Optics, 2019, 58, 7285.	1.8	1
21	Direct correlation spectrometer using polarized light. , 2019, , .		0
22	Dual-beam cross-correlation spectrometer for radial velocity measurements. Applied Optics, 2019, 58, 9310.	1.8	1
23	Thermal stabilization of a fiber-based channeled spectropolarimetry. Optical Engineering, 2019, 58, 1.	1.0	0
24	Imaging linear and circular polarization features in leaves with complete Mueller matrix polarimetry. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1350-1363.	2.4	43
25	Initial orbit determination using Doppler shift of Fraunhofer lines. Celestial Mechanics and Dynamical Astronomy, 2018, 130, 1.	1.4	8
26	Shear-Enhanced Transfer Printing of Conducting Polymer Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 31560-31567.	8.0	34
27	Synthetic neural network calibration of a hyperspectral imaging camera. , 2018, , .		0
28	Monolithic intrinsic Coincident polarimeter using organic photovoltaics. , 2018, , .		0
29	Channeled polarimetry using spectrally resolved longitudinal spatial coherence interferometry. , 2018, , .		0
30	Aircraft skin defect localization using imaging polarimetry. Optical Engineering, 2018, 57, 1.	1.0	2
31	Optimization of aspheric geometric-phase lenses for improved field-of-view. , 2018, , .		0
32	Design and fabrication of an aspheric geometric-phase lens doublet. , 2018, , .		2
33	A reconstruction algorithm for three-dimensional object-space data using spatial-spectral multiplexing. Proceedings of SPIE, 2017, , .	0.8	0
34	Spectrally resolved longitudinal spatial coherence inteferometry. , 2017, , .		0
35	Supervised non-negative tensor factorization for automatic hyperspectral feature extraction and target discrimination. , 2017, , .		0
36	Snapshot spectrally resolved longitudinal spatial coherence interferometry. Optical Engineering, 2017, 56, 064104.	1.0	1

#	ARTICLE	IF	CITATIONS
37	Snapshot imaging spectrometry with a heterodyned Savart plate interferometer. Optical Engineering, 2017, 56, 081806.	1.0	4
38	Mueller matrix polarimetry on plasma sprayed thermal barrier coatings for porosity measurement. Applied Optics, 2017, 56, 9770.	1.8	8
39	A handheld 1D transparent CMUT array probe for photoacoustic imaging. , 2017, , .		1
40	A handheld 1D transparent CMUT array probe for photoacoustic imaging: Preliminary results. , 2017, , .		4
41	Field deployable pushbroom hyperspectral imaging polarimeter. Optical Engineering, 2017, 56, 1.	1.0	14
42	Fraunhofer line optical correlator for improvement of initial orbit determination. , 2017, , .		1
43	Intrinsic coincident full-Stokes polarimeter using stacked organic photovoltaics and architectural comparison of polarimeter techniques. , 2017, , .		1
44	Snapshot hyperspectral imaging Fourier transform spectropolarimeter. , 2017, , .		0
45	Achromatic Wollaston prism beam splitter using polarization gratings. Optics Letters, 2016, 41, 4461.	3.3	9
46	Controlling Light with Geometric-Phase Holograms. Optics and Photonics News, 2016, 27, 22.	0.5	65
47	Spatially heterodyned snapshot imaging spectrometer. Applied Optics, 2016, 55, 8667.	2.1	10
48	Neural network calibration of a snapshot birefringent Fourier transform spectrometer with periodic phase errors. Optics Express, 2016, 24, 11266.	3.4	10
49	Maximum bandwidth snapshot channeled imaging polarimeter with polarization gratings. Proceedings of SPIE, 2016, , .	0.8	2
50	Field deployable pushbroom hyperspectral imaging polarimeter. Proceedings of SPIE, 2016, , .	0.8	1
51	Atomically Thin MoS ₂ Narrowband and Broadband Light Superabsorbers. ACS Nano, 2016, 10, 7493-7499.	14.6	82
52	Imaging of in vitro parenteral drug precipitation. International Journal of Pharmaceutics, 2016, 512, 219-223.	5.2	2
53	Narrowband emission line imaging spectrometry using Savart plates. , 2016, , .		1
54	Wide field-of-view, multi-region, two-photon imaging of neuronal activity in the mammalian brain. Nature Biotechnology, 2016, 34, 857-862.	17.5	277

#	ARTICLE	IF	CITATIONS
55	Intrinsic coincident linear polarimetry using stacked organic photovoltaics. Optics Express, 2016, 24, 14737.	3.4	16
56	Wide Field-Of-View, Multi-Region Two-Photon Imaging of Neuronal Activity In Vivo. , 2016, , .		5
57	Ultraspectral imaging and the snapshot advantage. , 2015, , .		2
58	Fabrication of ideal geometric-phase holograms with arbitrary wavefronts. Optica, 2015, 2, 958.	9.3	320
59	In-Plane Alignment in Organic Solar Cells to Probe the Morphological Dependence of Charge Recombination. Advanced Functional Materials, 2015, 25, 1296-1303.	14.9	12
60	Passive standoff imaging using spatial-spectral multiplexing. Proceedings of SPIE, 2015, , .	0.8	0
61	Snapshot retinal imaging Mueller matrix polarimeter. Proceedings of SPIE, 2015, 9613, .	0.8	1
62	Phase correction algorithms for a snapshot hyperspectral imaging system. Proceedings of SPIE, 2015, , .	0.8	1
63	In situ fringe projector development for thermal coating deposition. Optical Engineering, 2014, 53, 074105.	1.0	2
64	Organic photovoltaic cells with controlled polarization sensitivity. Applied Physics Letters, 2014, 104, .	3.3	25
65	Snapshot imaging Fraunhofer line discriminator. , 2014, , .		1
66	Design and application of the snapshot hyperspectral imaging Fourier transform (SHIFT) spectropolarimeter for fluorescence imaging. , 2014, , .		4
67	Birefringent snapshot imaging spatial heterodyne spectrometer. Proceedings of SPIE, 2014, , .	0.8	0
68	Polarization spatial heterodyne interferometer: model and calibration. Optical Engineering, 2014, 53, 044104.	1.0	5
69	Phase error in Fourier transform spectrometers employing polarization interferometers. Proceedings of SPIE, 2014, , .	0.8	0
70	Compact spatial heterodyne interferometer using polarization gratings. Proceedings of SPIE, 2013, , .	0.8	2
71	Athermalized channeled spectropolarimetry using a biaxial potassium titanyl phosphate crystal. Optics Letters, 2013, 38, 1657.	3.3	14
72	Review of snapshot spectral imaging technologies. Optical Engineering, 2013, 52, 090901.	1.0	505

#	ARTICLE	IF	CITATIONS
73	On the Exploitation of Mid-infrared Iridescence of Plumage for Remote Classification of Nocturnal Migrating Birds. Applied Spectroscopy, 2013, 67, 477-490.	2.2	15
74	Snapshot imaging Mueller matrix instrument. , 2013, , .		3
75	Thermally stable imaging channeled spectropolarimetry. , 2013, , .		3
76	Faceted grating prism for a computed tomographic imaging spectrometer. Optical Engineering, 2012, 51, 044002.	1.0	13
77	Snapshot imaging Mueller matrix polarimeter using polarization gratings. Optics Letters, 2012, 37, 1367.	3.3	81
78	Spatial heterodyne interferometry with polarization gratings. Optics Letters, 2012, 37, 4413.	3.3	23
79	Compact real-time birefringent imaging spectrometer. Optics Express, 2012, 20, 17973.	3.4	85
80	Compact snapshot birefringent imaging Fourier transform spectrometer for remote sensing and endoscopy. Proceedings of SPIE, 2012, , .	0.8	3
81	Practical Spectral Photography. Computer Graphics Forum, 2012, 31, 449-458.	3.0	42
82	Compact snapshot real-time imaging spectrometer. , 2011, , .		4
83	Infrared hyperspectral imaging polarimeter using birefringent prisms. Applied Optics, 2011, 50, 1170.	2.1	75
84	White-light channeled imaging polarimeter using broadband polarization gratings. Applied Optics, 2011, 50, 2283.	2.1	114
85	Preliminary results from an infrared hyperspectral imaging polarimeter. , 2011, , .		0
86	Spectrally broadband channeled imaging polarimeter using polarization gratings. Proceedings of SPIE, 2011, , .	0.8	3
87	Imaging Spectrometers and Polarimeters. , 2011, , .		0
88	Compact infrared hyperspectral imaging polarimeter. Proceedings of SPIE, 2010, , .	0.8	7
89	Compact snapshot birefringent imaging Fourier transform spectrometer. , 2010, , .		5
90	White-light Sagnac interferometer for snapshot polarimetric and multispectral imaging. Proceedings of SPIE, 2010, , .	0.8	1

#	ARTICLE	IF	CITATIONS
91	White-light Sagnac interferometer for snapshot multispectral imaging. Applied Optics, 2010, 49, 4067.	2.1	30
92	Infrared Stokes imaging polarimeter using microbolometers. , 2009, , .		1
93	White light Sagnac interferometer for snapshot linear polarimetric imaging. Optics Express, 2009, 17, 22520.	3.4	38
94	False signature reduction in infrared channeled spectropolarimetry. , 2009, , .		7
95	Compact and miniature snapshot imaging polarimeter. Applied Optics, 2008, 47, 4413.	2.1	80
96	Prismatic imaging polarimeter calibration for the infrared spectral region. Optics Express, 2008, 16, 13720.	3.4	28
97	Fourier transform channeled spectropolarimetry in the MWIR. Optics Express, 2007, 15, 12792.	3.4	101
98	Enabling compact, high resolution spectrometry. SPIE Newsroom, 0, , .	0.1	0