

# Mikkel Brydegaard

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

1,354  
citations

304743

22  
h-index

377865

34  
g-index

60  
all docs

60  
docs citations

60  
times ranked

600  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D-Printed Fluorescence Hyperspectral Lidar for Monitoring Tagged Insects. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-9.	2.9	8
2	Automating insect monitoring using unsupervised near-infrared sensors. Scientific Reports, 2022, 12, 2603.	3.3	31
3	Scheimpflug lidar range profiling of bee activity patterns and spatial distributions. Animal Biotelemetry, 2022, 10, .	1.9	9
4	Potential for identification of wild night-flying moths by remote infrared microscopy. Journal of the Royal Society Interface, 2022, 19, .	3.4	8
5	Weak population genetic structure in Eurasian spruce bark beetle over large regional scales in Sweden. Ecology and Evolution, 2022, 12, .	1.9	5
6	Bark beetles as lidar targets and prospects of photonic surveillance. Journal of Biophotonics, 2021, 14, e202000420.	2.3	15
7	Advances in automatic identification of flying insects using optical sensors and machine learning. Scientific Reports, 2021, 11, 1555.	3.3	39
8	Real-time dispersal of malaria vectors in rural Africa monitored with lidar. PLoS ONE, 2021, 16, e0247803.	2.5	16
9	High Dynamic Range in Entomological Scheimpflug Lidars. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11.	2.9	8
10	Application of lidar remote sensing of insects in agricultural entomology on the Chinese scene. Journal of Applied Entomology, 2020, 144, 161-169.	1.8	23
11	Drone-Based Fluorescence Lidar Systems for Vegetation and Marine Environment Monitoring. EPJ Web of Conferences, 2020, 237, 07013.	0.3	3
12	Lidar reveals activity anomaly of malaria vectors during pan-African eclipse. Science Advances, 2020, 6, eaay5487.	10.3	31
13	A Scheimpflug lidar used to observe insect swarming at a wind turbine. Ecological Indicators, 2020, 117, 106578.	6.3	16
14	Entomological Scheimpflug lidar for estimating unique insect classes in-situ field test from Ivory Coast. OSA Continuum, 2020, 3, 2362.	1.8	14
15	First Polarimetric Investigation of Malaria Mosquitoes as Lidar Targets. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	2.9	10
16	Advances in entomological laser radar. Journal of Engineering, 2019, 2019, 7542-7545.	1.1	16
17	Correlation of mosquito wing-beat harmonics to aid in species classification and flight heading assessment. , 2019, , .		4
18	Atmospheric CO <sub>2</sub> sensing using Scheimpflug-lidar based on a 157-Åµm fiber source. Optics Express, 2019, 27, 17348.	3.4	18

#	ARTICLE	IF	CITATIONS
19	The batâ€“birdâ€“bug battle: daily flight activity of insects and their predators over a rice field revealed by high-resolution Scheimpflug Lidar. Royal Society Open Science, 2018, 5, 172303.	2.4	46
20	Multiband modulation spectroscopy for the determination of sex and species of mosquitoes in flight. Journal of Biophotonics, 2018, 11, e201800014.	2.3	46
21	Photonic Monitoring of Atmospheric and Aquatic Fauna. Laser and Photonics Reviews, 2018, 12, 1800135.	8.7	41
22	Drone-based area scanning of vegetation fluorescence height profiles using a miniaturized hyperspectral lidar system. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	25
23	Passive kHz lidar for the quantification of insect activity and dispersal. Animal Biotelemetry, 2018, 6, .	1.9	20
24	Short-Wave infrared atmospheric scheimpflug lidar. EPJ Web of Conferences, 2018, 176, 01012.	0.3	8
25	Inelastic hyperspectral lidar for aquatic ecosystems monitoring and landscape plant scanning test. EPJ Web of Conferences, 2018, 176, 01003.	0.3	3
26	Scheimpflug Lidar for combustion diagnostics. Optics Express, 2018, 26, 14842.	3.4	27
27	Can the narrow red bands of dragonflies be used to perceive wing interference patterns?. Ecology and Evolution, 2018, 8, 5369-5384.	1.9	25
28	Particle profiling and classification by a dual-band continuous-wave lidar system. Applied Optics, 2018, 57, 10164.	1.8	10
29	Probing insect backscatter cross section and melanization using kHz optical remote detection system. Journal of Applied Remote Sensing, 2017, 11, 016015.	1.3	3
30	Insect abundance over Chinese rice fields in relation to environmental parameters, studied with a polarization-sensitive CW near-IR lidar system. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	51
31	Exploitation of an atmospheric lidar network node in single-shot mode for the classification of aerafauna. Journal of Applied Remote Sensing, 2017, 11, 1.	1.3	6
32	The Scheimpflug lidar method. , 2017, , .		11
33	Daily Evolution of the Insect Biomass Spectrum in an Agricultural Landscape Accessed with Lidar. EPJ Web of Conferences, 2016, 119, 22004.	0.3	24
34	Exploitation of Multi-Band Lidar for the Classification of Free-Flying Migratory Birds: A Pilot Study Over Athens, Greece. EPJ Web of Conferences, 2016, 119, 27002.	0.3	2
35	Inelastic hyperspectral lidar for profiling aquatic ecosystems. Laser and Photonics Reviews, 2016, 10, 807-813.	8.7	46
36	Probing insect backscatter cross-section and melanization using kHz optical remote detection system. , 2016, , .		3

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37	Observations of movement dynamics of flying insects using high resolution lidar. Scientific Reports, 2016, 6, 29083.	3.3	49
38	Realistic Instrumentation Platform for Active and Passive Optical Remote Sensing. Applied Spectroscopy, 2016, 70, 372-385.	2.2	21
39	Effective Parameterization of Laser Radar Observations of Atmospheric Fauna. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 327-334.	2.9	33
40	Atmospheric aerosol monitoring by an elastic Scheimpflug lidar system. Optics Express, 2015, 23, A1613.	3.4	90
41	Continuous-wave differential absorption lidar. Laser and Photonics Reviews, 2015, 9, 629-636.	8.7	78
42	Towards Quantitative Optical Cross Sections in Entomological Laser Radar – Potential of Temporal and Spherical Parameterizations for Identifying Atmospheric Fauna. PLoS ONE, 2015, 10, e0135231.	2.5	45
43	Complete parameterization of temporally and spectrally resolved laser induced fluorescence data with applications in bio-photonics. Chemometrics and Intelligent Laboratory Systems, 2015, 142, 95-106.	3.5	1
44	Applied kHz optical remote sensing for determination of insect flight direction and relative size. , 2015, , .		0
45	SUPER RESOLUTION LASER RADAR WITH BLINKING ATMOSPHERIC PARTICLES — APPLICATION TO INTERACTING FLYING INSECTS (Invited Paper). Progress in Electromagnetics Research, 2014, 147, 141-151.	4.4	89
46	Advantages of shortwave infrared LIDAR entomology. , 2014, , .		10
47	Design and validation of a fiber optic point probe instrument for therapy guidance and monitoring. Journal of Biomedical Optics, 2014, 19, 071408.	2.6	13
48	Investigation of atmospheric insect wing-beat frequencies and iridescence features using a multispectral kHz remote detection system. Journal of Applied Remote Sensing, 2014, 8, 083503.	1.3	19
49	Investigation of atmospheric insect wing-beat frequencies and iridescence features using a multi-spectral kHz remote detection system. Proceedings of SPIE, 2014, , .	0.8	0
50	Staining-free malaria diagnostics by multispectral and multimodality light-emitting-diode microscopy. Journal of Biomedical Optics, 2013, 18, 036002.	2.6	16
51	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
52	Tea classification and quality assessment using laser-induced fluorescence and chemometric evaluation. Applied Optics, 2012, 51, 803.	1.8	38
53	Chemometric approach to chromatic spatial variance. Case study: patchiness of the Skyros wall lizard. Journal of Chemometrics, 2012, 26, 246-255.	1.3	7
54	Remote nocturnal bird classification by spectroscopy in extended wavelength ranges. Applied Optics, 2011, 50, 3396.	2.1	17

#	ARTICLE	IF	CITATIONS
55	Passive unmanned sky spectroscopy for remote bird classification. , 2011, , .		1
56	Versatile multispectral microscope based on light emitting diodes. Review of Scientific Instruments, 2011, 82, 123106.	1.3	32
57	Feasibility study: fluorescence lidar for remote bird classification. Applied Optics, 2010, 49, 4531.	2.1	21
58	Insect monitoring with fluorescence lidar techniques: field experiments. Applied Optics, 2010, 49, 5133.	2.1	44
59	Insect monitoring with fluorescence lidar techniques: feasibility study. Applied Optics, 2009, 48, 5668.	2.1	44