

Sune Svanberg

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

1,730
citations

218677

26
h-index

315739

38
g-index

82
all docs

82
docs citations

82
times ranked

955
citing authors

#	ARTICLE	IF	CITATIONS
1	Compact fluorosensor for close-range remote-sensing characterization of fruits. , 2022, , .		0
2	Identification of Flying Insects in the Spatial, Spectral, and Time Domains with Focus on Mosquito Imaging. Sensors, 2021, 21, 3329.	3.8	5
3	Gas Monitoring in Human Frontal Sinuses—Stability Considerations and Gas Exchange Studies. Sensors, 2021, 21, 4413.	3.8	0
4	Gas in scattering media absorption spectroscopy on small and large scales: Toward the extension of lung spectroscopic monitoring to adults. Translational Biophotonics, 2021, 3, e202100003.	2.7	1
5	Atmospheric Mercury Pollution in the Xi'an Area, China, Studied by Differential Absorption Lidar. Atmosphere, 2021, 12, 27.	2.3	3
6	Monitoring of Flying Horticulture Pest Insects Using a Bi-Static Lidar System. , 2021, , .		1
7	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
8	Drone-Based Fluorescence Lidar Systems for Vegetation and Marine Environment Monitoring. EPJ Web of Conferences, 2020, 237, 07013.	0.3	3
9	Mercury as a Geophysical Tracer Gas - Emissions from the Emperor Qin Tomb in Xi'an Studied by Laser Radar. Scientific Reports, 2020, 10, 10414.	3.3	7
10	Foreground Scattering Elimination by Inverse Lock-in-Like Spatial Modulation. Vision (Switzerland), 2020, 4, 37.	1.2	2
11	Mosquito counting system based on optical sensing. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	12
12	Ripening of avocado fruits studied by spectroscopic techniques. Journal of Biophotonics, 2020, 13, e202000076.	2.3	6
13	Short-range remote sensing of water quality by a handheld fluorosensor system. Applied Optics, 2020, 59, C1.	1.8	13
14	Aquatic environment monitoring using a drone-based fluorosensor. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	32
15	Towards an optical diagnostic system for otitis media using a combination of otoscopy and spectroscopy. Journal of Biophotonics, 2019, 12, e201800305.	2.3	9
16	Assessment of Free Gas in the Tibial Condyle Bone of the Human Knee by Diode Laser Spectroscopy With Possible Application to Arthritis Diagnostics. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-4.	2.9	3
17	Laser-based gas absorption spectroscopy in decaying hip bone: water vapor as a predictor of osteonecrosis. Journal of Biomedical Optics, 2019, 24, 1.	2.6	7
18	The bat—bird—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

#	ARTICLE	IF	CITATIONS
19	Photonic Monitoring of Atmospheric and Aquatic Fauna. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800135.	8.7	41
20	Drone-based area scanning of vegetation fluorescence height profiles using a miniaturized hyperspectral lidar system. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	25
21	Lidar mapping of atmospheric atomic mercury in the Wanshan area, China. <i>Environmental Pollution</i> , 2018, 240, 353-358.	7.5	16
22	Sensitivity enhancement and fringe reduction in tunable diode laser spectroscopy using hemispherical diffusers. <i>Review of Scientific Instruments</i> , 2017, 88, 053111.	1.3	4
23	Diagnostics of femoral head status in humans using laser spectroscopy – <i>In vitro</i> studies. <i>Journal of Biophotonics</i> , 2017, 10, 1356-1364.	2.3	9
24	Insect abundance over Chinese rice fields in relation to environmental parameters, studied with a polarization-sensitive CW near-IR lidar system. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	2.2	51
25	Application of Tunable Diode Laser Spectroscopy for the Assessment of Food Quality. <i>Applied Spectroscopy</i> , 2017, 71, 929-938.	2.2	16
26	Mobile lidar system for environmental monitoring. <i>Applied Optics</i> , 2017, 56, 1506.	2.1	28
27	Gas exchange in fruits related to skin condition and fruit ripening studied with diode laser spectroscopy. <i>Journal of Biomedical Optics</i> , 2016, 21, 127007.	2.6	8
28	Inelastic hyperspectral lidar for profiling aquatic ecosystems. <i>Laser and Photonics Reviews</i> , 2016, 10, 807-813.	8.7	46
29	Laser spectroscopic studies of gas diffusion in alumina ceramics. <i>Optics Express</i> , 2016, 24, 1986.	3.4	11
30	Realistic Instrumentation Platform for Active and Passive Optical Remote Sensing. <i>Applied Spectroscopy</i> , 2016, 70, 372-385.	2.2	21
31	Diode laser spectroscopy for noninvasive monitoring of oxygen in the lungs of newborn infants. <i>Pediatric Research</i> , 2016, 79, 621-628.	2.3	26
32	Assessment of human sinus cavity air volume using tunable diode laser spectroscopy, with application to sinusitis diagnostics. <i>Journal of Biophotonics</i> , 2015, 8, 985-992.	2.3	17
33	Optical detection of middle ear infection using spectroscopic techniques: phantom experiments. <i>Journal of Biomedical Optics</i> , 2015, 20, 057001.	2.6	21
34	Complete parameterization of temporally and spectrally resolved laser induced fluorescence data with applications in bio-photonics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 142, 95-106.	3.5	1
35	Wavelength modulation spectroscopy – digital detection of gas absorption harmonics based on Fourier analysis. <i>Applied Optics</i> , 2015, 54, 2234.	1.8	52
36	SUPER RESOLUTION LASER RADAR WITH BLINKING ATMOSPHERIC PARTICLES – APPLICATION TO INTERACTING FLYING INSECTS (Invited Paper). <i>Progress in Electromagnetics Research</i> , 2014, 147, 141-151.	4.4	89

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37	Frequency-modulated light scattering interferometry employed for optical properties and dynamics studies of turbid media. <i>Biomedical Optics Express</i> , 2014, 5, 2810.	2.9	8
38	Studies of tropical fruit ripening using three different spectroscopic techniques. <i>Journal of Biomedical Optics</i> , 2014, 19, 067001.	2.6	31
39	Pathlength Determination for Gas in Scattering Media Absorption Spectroscopy. <i>Sensors</i> , 2014, 14, 3871-3890.	3.8	25
40	Light propagation in porous ceramics: porosity and optical property studies using tunable diode laser spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 393-400.	2.3	13
41	Differential absorption lidar system employed for background atomic mercury vertical profiling in South China. <i>Optics and Lasers in Engineering</i> , 2014, 55, 128-135.	3.8	27
42	Gas in scattering media absorption spectroscopy – from basic studies to biomedical applications. <i>Laser and Photonics Reviews</i> , 2013, 7, 779-796.	8.7	44
43	Frequency-modulated light scattering in colloidal suspensions. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	8
44	Biophotonics – techniques and applications. <i>Laser and Photonics Reviews</i> , 2013, 7, A43.	8.7	3
45	Noninvasive monitoring of gas in the lungs and intestines of newborn infants using diode lasers: feasibility study. <i>Journal of Biomedical Optics</i> , 2013, 18, 127005.	2.6	23
46	Diffuse Optical Techniques Applied to Wood Characterisation. <i>Journal of Near Infrared Spectroscopy</i> , 2013, 21, 259-268.	1.5	32
47	Tea classification and quality assessment using laser-induced fluorescence and chemometric evaluation. <i>Applied Optics</i> , 2012, 51, 803.	1.8	38
48	Gas in Scattering Media Absorption Spectroscopy (GASMAS) Detected Persistent Vacuum in Apple Tissue After Vacuum Impregnation. <i>Food Biophysics</i> , 2012, 7, 28-34.	3.0	35
49	Wall-collision line broadening of molecular oxygen within nanoporous materials. <i>Physical Review A</i> , 2011, 84, .	2.5	25
50	Nonintrusive gas monitoring in neonatal lungs using diode laser spectroscopy: feasibility study. <i>Journal of Biomedical Optics</i> , 2011, 16, 127002.	2.6	28
51	Feasibility study: fluorescence lidar for remote bird classification. <i>Applied Optics</i> , 2010, 49, 4531.	2.1	21
52	Insect monitoring with fluorescence lidar techniques: field experiments. <i>Applied Optics</i> , 2010, 49, 5133.	2.1	44
53	Laser absorption spectroscopy of water vapor confined in nanoporous alumina: wall collision line broadening and gas diffusion dynamics. <i>Optics Express</i> , 2010, 18, 16460.	3.4	59
54	Wall-collision broadening of Gas absorption lines in nanoporous materials. , 2010, , .		0

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55	Diagnostics of human gas cavities with diode laser absorption spectroscopy. , 2010, , .		0
56	GAS IN SCATTERING MEDIA ABSORPTION SPECTROSCOPY â€” LASER SPECTROSCOPY IN UNCONVENTIONAL ENVIRONMENTS. , 2010, , .		0
57	Zero-background tunable diode laser absorption spectroscopies using balanced interferometers. , 2009, , .		0
58	Broad-band multispectral microscope for imaging transmission spectroscopy employing an array of light-emitting diodes. American Journal of Physics, 2009, 77, 104-110.	0.7	23
59	Clinical system for non-invasive in situ monitoring of gases in the human paranasal sinuses. Optics Express, 2009, 17, 10849.	3.4	36
60	Insect monitoring with fluorescence lidar techniques: feasibility study. Applied Optics, 2009, 48, 5668.	2.1	44
61	Flexible lock-in detection system based on synchronized computer plug-in boards applied in sensitive diode-laser gas spectroscopy. , 2007, , .		3
62	Time-of-flight laser spectroscopy in biomedical diagnostics. , 2007, , .		0
63	Gas monitoring in human sinuses using tunable diode laser spectroscopy. Journal of Biomedical Optics, 2007, 12, 054001.	2.6	46
64	Noninvasive Characterization of Pharmaceutical Solids by Diode Laser Oxygen Spectroscopy. Applied Spectroscopy, 2007, 61, 784-786.	2.2	33
65	Optical and Spectroscopic Techniques. , 2007, , 987-1052.		3
66	Studies of Free Gas in Scattering Media at Micro- and Macroscopic Scales. , 2006, , .		2
67	Remote Multicolor Excitation Laser-Induced Fluorescence Imaging. Laser Chemistry, 2006, 2006, 1-6.	0.5	7
68	Human Sinus Studies using Monte Carlo Simulations and Diode Laser Gas Absorption Spectroscopy. , 2006, , .		2
69	Elemental mercury emissions from chlor-alkali plants measured by lidar techniques. Atmospheric Environment, 2005, 39, 7474-7480.	4.1	42
70	Atomic mercury flux monitoring using an optical parametric oscillator based lidar system. Optics Express, 2004, 12, 551.	3.4	23
71	Versatile mobile lidar system for environmental monitoring. Applied Optics, 2003, 42, 3583.	2.1	132
72	Compact fiber-optic fluorosensor using a continuous-wave violet diode laser and an integrated spectrometer. Review of Scientific Instruments, 2000, 71, 3004-3006.	1.3	34

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73	Photodynamic therapy utilising topical δ -aminolevulinic acid in non-melanoma skin malignancies of the eyelid and the periocular skin. <i>Acta Ophthalmologica</i> , 1999, 77, 182-188.	0.3	72
74	Time-Resolved Studies of Light Propagation in <i>Crassula</i> and <i>Phaseolus</i> Leaves. <i>Photochemistry and Photobiology</i> , 1999, 69, 242-247.	2.5	13
75	Laser-Based Spectroscopic Methods in Tissue Characterization. <i>Annals of the New York Academy of Sciences</i> , 1998, 838, 123-129.	3.8	22
76	Multi-colour fluorescence imaging in connection with photodynamic therapy of δ -amino levulinic acid (ALA) sensitised skin malignancies. <i>Bioimaging</i> , 1995, 3, 134-143.	1.3	14
77	LASER-INDUCED FLUORESCENCE IN MALIGNANT and NORMAL TISSUE OF RATS INJECTED WITH BENZOPORPHYRIN DERIVATIVE. <i>Photochemistry and Photobiology</i> , 1993, 57, 978-983.	2.5	36
78	Identification of brain tumours in rats using laser-induced fluorescence and haematoporphyrin derivative. <i>Lasers in Medical Science</i> , 1989, 4, 241-249.	2.1	21
79	Laser-induced fluorescence and coherent anti-stokes raman scattering (CARS) techniques in combustion diagnostics. , 1984, , .		0