

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	Versatile mobile lidar system for environmental monitoring. <i>Applied Optics</i> , 2003, 42, 3583.	2.1	132
2	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
3	Photodynamic therapy utilising topical 5-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
4	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
5	Wavelength modulation spectroscopy digital detection of gas absorption harmonics based on Fourier analysis. <i>Applied Optics</i> , 2015, 54, 2234.	1.8	52
6	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
7	Gas monitoring in human sinuses using tunable diode laser spectroscopy. <i>Journal of Biomedical Optics</i> , 2007, 12, 054001.	2.6	46
8	Inelastic hyperspectral lidar for profiling aquatic ecosystems. <i>Laser and Photonics Reviews</i> , 2016, 10, 807-813.	8.7	46
9	The bat-bird-bug battle: daily flight activity of insects and their predators over a rice field revealed by high-resolution Scheimpflug Lidar. <i>Royal Society Open Science</i> , 2018, 5, 172303.	2.4	46
10	Insect monitoring with fluorescence lidar techniques: feasibility study. <i>Applied Optics</i> , 2009, 48, 5668.	2.1	44
11	Insect monitoring with fluorescence lidar techniques: field experiments. <i>Applied Optics</i> , 2010, 49, 5133.	2.1	44
12	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
13	Elemental mercury emissions from chlor-alkali plants measured by lidar techniques. <i>Atmospheric Environment</i> , 2005, 39, 7474-7480.	4.1	42
14	Photonic Monitoring of Atmospheric and Aquatic Fauna. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800135.	8.7	41
15	Tea classification and quality assessment using laser-induced fluorescence and chemometric evaluation. <i>Applied Optics</i> , 2012, 51, 803.	1.8	38
16	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
17	Clinical system for non-invasive in situ monitoring of gases in the human paranasal sinuses. <i>Optics Express</i> , 2009, 17, 10849.	3.4	36
18	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

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19	Compact fiber-optic fluorosensor using a continuous-wave violet diode laser and an integrated spectrometer. <i>Review of Scientific Instruments</i> , 2000, 71, 3004-3006.	1.3	34
20	Noninvasive Characterization of Pharmaceutical Solids by Diode Laser Oxygen Spectroscopy. <i>Applied Spectroscopy</i> , 2007, 61, 784-786.	2.2	33
21	Diffuse Optical Techniques Applied to Wood Characterisation. <i>Journal of Near Infrared Spectroscopy</i> , 2013, 21, 259-268.	1.5	32
22	Aquatic environment monitoring using a drone-based fluorosensor. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	2.2	32
23	Studies of tropical fruit ripening using three different spectroscopic techniques. <i>Journal of Biomedical Optics</i> , 2014, 19, 067001.	2.6	31
24	Noninvasive gas monitoring in neonatal lungs using diode laser spectroscopy: feasibility study. <i>Journal of Biomedical Optics</i> , 2011, 16, 127002.	2.6	28
25	Mobile lidar system for environmental monitoring. <i>Applied Optics</i> , 2017, 56, 1506.	2.1	28
26	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
27	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
28	Wall-collision line broadening of molecular oxygen within nanoporous materials. <i>Physical Review A</i> , 2011, 84, .	2.5	25
29	Pathlength Determination for Gas in Scattering Media Absorption Spectroscopy. <i>Sensors</i> , 2014, 14, 3871-3890.	3.8	25
30	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
31	Atomic mercury flux monitoring using an optical parametric oscillator based lidar system. <i>Optics Express</i> , 2004, 12, 551.	3.4	23
32	Broad-band multispectral microscope for imaging transmission spectroscopy employing an array of light-emitting diodes. <i>American Journal of Physics</i> , 2009, 77, 104-110.	0.7	23
33	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
34	Application of lidar remote sensing of insects in agricultural entomology on the Chinese scene. <i>Journal of Applied Entomology</i> , 2020, 144, 161-169.	1.8	23
35	Laser-Based Spectroscopic Methods in Tissue Characterization. <i>Annals of the New York Academy of Sciences</i> , 1998, 838, 123-129.	3.8	22
36	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

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37	Feasibility study: fluorescence lidar for remote bird classification. <i>Applied Optics</i> , 2010, 49, 4531.	2.1	21
38	Optical detection of middle ear infection using spectroscopic techniques: phantom experiments. <i>Journal of Biomedical Optics</i> , 2015, 20, 057001.	2.6	21
39	Realistic Instrumentation Platform for Active and Passive Optical Remote Sensing. <i>Applied Spectroscopy</i> , 2016, 70, 372-385.	2.2	21
40	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
41	Application of Tunable Diode Laser Spectroscopy for the Assessment of Food Quality. <i>Applied Spectroscopy</i> , 2017, 71, 929-938.	2.2	16
42	Lidar mapping of atmospheric atomic mercury in the Wanshan area, China. <i>Environmental Pollution</i> , 2018, 240, 353-358.	7.5	16
43	Multi-colour fluorescence imaging in connection with photodynamic therapy of $\hat{\Gamma}$ -amino levulinic acid (ALA) sensitised skin malignancies. <i>Bioimaging</i> , 1995, 3, 134-143.	1.3	14
44	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
45	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
46	Short-range remote sensing of water quality by a handheld fluorosensor system. <i>Applied Optics</i> , 2020, 59, C1.	1.8	13
47	Mosquito counting system based on optical sensing. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	2.2	12
48	Laser spectroscopic studies of gas diffusion in alumina ceramics. <i>Optics Express</i> , 2016, 24, 1986.	3.4	11
49	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
50	Towards an optical diagnostic system for otitis media using a combination of otoscopy and spectroscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201800305.	2.3	9
51	Frequency-modulated light scattering in colloidal suspensions. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	8
52	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
53	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
54	Remote Multicolor Excitation Laser-Induced Fluorescence Imaging. <i>Laser Chemistry</i> , 2006, 2006, 1-6.	0.5	7

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55	Mercury as a Geophysical Tracer Gas - Emissions from the Emperor Qin Tomb in Xi'án Studied by Laser Radar. <i>Scientific Reports</i> , 2020, 10, 10414.	3.3	7
56	Laser-based gas absorption spectroscopy in decaying hip bone: water vapor as a predictor of osteonecrosis. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	7
57	Ripening of avocado fruits studied by spectroscopic techniques. <i>Journal of Biophotonics</i> , 2020, 13, e202000076.	2.3	6
58	Identification of Flying Insects in the Spatial, Spectral, and Time Domains with Focus on Mosquito Imaging. <i>Sensors</i> , 2021, 21, 3329.	3.8	5
59	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
60	Flexible lock-in detection system based on synchronized computer plug-in boards applied in sensitive diode-laser gas spectroscopy. , 2007, , .		3
61	Optical and Spectroscopic Techniques. , 2007, , 987-1052.		3
62	Biophotonics's techniques and applications. <i>Laser and Photonics Reviews</i> , 2013, 7, A43.	8.7	3
63	Assessment of Free Gas in the Tibial Condyle Bone of the Human Knee by Diode Laser Spectroscopy With Possible Application to Arthrosis Diagnostics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-4.	2.9	3
64	Drone-Based Fluorescence Lidar Systems for Vegetation and Marine Environment Monitoring. <i>EPJ Web of Conferences</i> , 2020, 237, 07013.	0.3	3
65	Atmospheric Mercury Pollution in the Xi'an Area, China, Studied by Differential Absorption Lidar. <i>Atmosphere</i> , 2021, 12, 27.	2.3	3
66	Studies of Free Gas in Scattering Media at Micro- and Macroscopic Scales. , 2006, , .		2
67	Human Sinus Studies using Monte Carlo Simulations and Diode Laser Gas Absorption Spectroscopy. , 2006, , .		2
68	Foreground Scattering Elimination by Inverse Lock-in-Like Spatial Modulation. <i>Vision (Switzerland)</i> , 2020, 4, 37.	1.2	2
69	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
70	Gas in scattering media absorption spectroscopy on small and large scales: Toward the extension of lung spectroscopic monitoring to adults. <i>Translational Biophotonics</i> , 2021, 3, e202100003.	2.7	1
71	Monitoring of Flying Horticulture Pest Insects Using a Bi-Static Lidar System. , 2021, , .		1
72	Time-of-flight laser spectroscopy in biomedical diagnostics. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
73	Zero-background tunable diode laser absorption spectroscopies using balanced interferometers. , 2009, , .		0
74	Wall-collision broadening of Gas absorption lines in nanoporous materials. , 2010, , .		0
75	Diagnostics of human gas cavities with diode laser absorption spectroscopy. , 2010, , .		0
76	Gas Monitoring in Human Frontal Sinusesâ€“Stability Considerations and Gas Exchange Studies. Sensors, 2021, 21, 4413.	3.8	0
77	GAS IN SCATTERING MEDIA ABSORPTION SPECTROSCOPY â€” LASER SPECTROSCOPY IN UNCONVENTIONAL ENVIRONMENTS. , 2010, , .		0
78	Laser-induced fluorescence and coherent anti-stokes raman scattering (CARS) techniques in combustion diagnostics. , 1984, , .		0
79	Compact fluorosensor for close-range remote-sensing characterization of fruits. , 2022, , .		0