Ravil R Agishev

List of Publications by Year
in descending order

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40	240	1163117	996975
papers	citations	8 h-index	15 g-index

40	40	40	179
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lidar with SiPM: Some capabilities and limitations in real environment. Optics and Laser Technology, 2013, 49, 86-90.	4.6	61
2	Simple approach to predict APD/PMT lidar detector performance under sky background using dimensionless parametrization. Optics and Lasers in Engineering, 2006, 44, 779-796.	3.8	34
3	Range-resolved pulsed and CWFM lidars: potential capabilities comparison. Applied Physics B: Lasers and Optics, 2006, 85, 149-162.	2.2	28
4	Spatial filtering efficiency of monostatic biaxial lidar: analysis and applications. Applied Optics, 2002, 41, 7516.	2.1	20
5	Application of the method of decomposition of lidar signal-to-noise ratio to the assessment of laser instruments for gaseous pollution detection. Applied Physics B: Lasers and Optics, 2004, 79, 255-264.	2.2	16
6	Dimensionless parameterization of lidar for laser remote sensing of the atmosphere and its application to systems with SiPM and PMT detectors. Applied Optics, 2014, 53, 3164.	1.8	15
7	Intensity-modulated linear-frequency-modulated continuous-wave lidar for distributed media: fundamentals of technique. Applied Optics, 2010, 49, 3369.	2.1	14
8	Development of a SNR parameterization scheme for general lidar assessment. Applied Physics B: Lasers and Optics, 2005, 80, 765-776.	2.2	11
9	Atmospheric CW-FM-LD-RR ladar for trace-constituent detection: a concept development. Applied Physics B: Lasers and Optics, 2005, 81, 695-703.	2.2	8
10	Modeling of microjoule and millijoule energy LIDARs with PMT/SiPM/APD detectors: a sensitivity analysis. Applied Optics, 2018, 57, 3679.	1.8	8
11	Potentialities of laser systems for remote sensing of the atmosphere at a wide variability of optical and physical characteristics: dimensionless-parametric modelling. Quantum Electronics, 2017, 47, 140-152.	1.0	5
12	CW range-resolved S-lidars: capabilities and limitations in range domain. Optics and Lasers in Engineering, 2020, 134, 106260.	3.8	4
13	Assessment of capabilities of lidar systems in day-and night-time under different atmospheric and internal-noise conditions. EPJ Web of Conferences, 2018, 176, 01018.	0.3	3
14	Imaging S-lidars enhancement by optimizing range-domain characteristics. Optical Engineering, 2021, 60, .	1.0	3
15	Application of imaging S-lidars: functional and diagnostic capabilities for remote air pollution detection. Optical Engineering, 2021, 60, .	1.0	3
16	Analytic comparison of some features of pulse-lidar and CW-FM-ladar remote sensing. , 2003, 5086, 305.		2
17	Development features of atmospheric LD ladar based on the CW-FM-range-finding principles. , 2004, , .		2
18	Spatial-angular modeling of ground-based biaxial lidar. , 1997, , .		1

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19	Sensitivity of micro-lidar with SiPM to sky backgrounds. , 2018, , .		1
20	On optimization of optical parameters of biaxial monostatic CW lidar for atmospheric sensing in the daytime. , 2018, , .		1
21	<title>Spatial processing of sky background radiation for remote sensing of atmosphere parameters</title>. , 1996, 2784, 90.		0
22	<title>Biaxial lidar efficiency increase based on improving spatial selectivity and stability against background radiation</title>. , 1996, , .		0
23	<title>Atmospheric transmittance profile remote sensing by spatial processing of sky background radiation</title>. , 1996, , .		0
24	<title>Natural gas leaks detection by spatial-resolvable cw-laser-based remote monitoring</title>. , 1996, , .		0
25	<title>Spatial-resolvable remote sensing and detection of hydrocarbons based on cw low-power lasers</title>. , 1996, , .		0
26	<title>Improvement of spatial selectivity and stability against background radiation as preferred means of VIS and NIR biaxial lidar efficiency increase</title>. , 1997, 3104, 224.		0
27	<title>Remote sensing based on modulated cw lasers: features and approaches</title>. , 1998, , .		0
28	<title>Stability of Vis&NIR lidar against sky background clutter: analysis and improvement methods</title>. , 1998, , .		0
29	<title>Requirements for analysis of visible and NIR lidar performances: from atmospheric profile reconstruction accuracy to stable-against-clutter system design</title>. , 1998, 3433, 190.		0
30	CW-LD-LADAR for depth-resolvable remote gas detection: mathematical description and modeling. , 2002, , .		0
31	Development principles of frequency-modulated CW-ladar for remote detection of atmospheric trace constituents. , 2004, 5547, 31.		0
32	Simple signal-to-noise parameterization scheme to assess lidar performance and its applications. , 2004, , .		0
33	Atmospheric trace constituent detection by CW-FM-LD-ladar: a concept development. , 2004, , .		0
34	Lidar performance prediction by dimensionless SNR-parametrization. , 2005, 5979, 422.		0
35	Methodology of dimensionless multiplicative decomposition for atmospheric lidar evaluation. , 2006, 6367, 195.		0
36	Advanced methods and means to improve atmospheric lidar stability against sky background clutter. Proceedings of SPIE, 2011, , .	0.8	0

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37	Dimensionless parameters for lidar performance characterization. Proceedings of SPIE, 2014, , .	0.8	0
38	About the Potential of Lidars with Different Photodetectors Under Daytime Sky Radiation. EPJ Web of Conferences, 2016, 119, 25009.	0.3	0
39	Susceptibility of atmospheric imaging lidars to external backgrounds, sensitive to the depth of field. , 2019, , .		0
40	Generalization of optical, energy, and excess-noise parameters to compare capabilities of lidar with PMT/APD/SiPM. , 2017, , .		0