

Alexander V Lavrov

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

406
citations

840776

11
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752698

20
g-index

37
all docs

37
docs citations

37
times ranked

277
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of small forest fires by lidar. <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, 77-83.	2.2	60
2	Development of neural network committee machines for automatic forest fire detection using lidar. <i>Pattern Recognition</i> , 2004, 37, 2039-2047.	8.1	56
3	Feasibility of forest-fire smoke detection using lidar. <i>International Journal of Wildland Fire</i> , 2003, 12, 159.	2.4	36
4	Evaluation of smoke dispersion from forest fire plumes using lidar experiments and modelling. <i>International Journal of Thermal Sciences</i> , 2006, 45, 848-859.	4.9	36
5	Application of lidar in ultraviolet, visible and infrared ranges for early forest fire detection. <i>Applied Physics B: Lasers and Optics</i> , 2003, 76, 87-95.	2.2	25
6	Estimation of required parameters for detection of small smoke plumes by lidar at 1.54 μ m. <i>Applied Physics B: Lasers and Optics</i> , 2000, 71, 225-229.	2.2	24
7	Calculation of hydrodynamic coefficients of ship sections in roll motion using Navier-Stokes equations. <i>Ocean Engineering</i> , 2017, 133, 36-46.	4.3	23
8	Water stress assessment of cork oak leaves and maritime pine needles based on LIF spectra. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2012, 112, 271-279.	0.6	18
9	Effects of intertidal microphytobenthos migration on biomass determination via laser-induced fluorescence. <i>Marine Ecology - Progress Series</i> , 2011, 432, 45-52.	1.9	17
10	Laser rangefinder architecture as a cost-effective platform for lidar fire surveillance. <i>Optics and Laser Technology</i> , 2009, 41, 862-870.	4.6	13
11	Eye-safe lidar measurements for detection and investigation of forest-fire smoke. <i>International Journal of Wildland Fire</i> , 2004, 13, 401.	2.4	12
12	Optimisation of location and number of lidar apparatuses for early forest fire detection in hilly terrain. <i>Fire Safety Journal</i> , 2006, 41, 144-154.	3.1	12
13	Design of committee machines for classification of single-wavelength lidar signals applied to early forest fire detection. <i>Pattern Recognition Letters</i> , 2005, 26, 625-632.	4.2	11
14	Multi-objective optimisation of lidar parameters for forest-fire detection on the basis of a genetic algorithm. <i>Optics and Laser Technology</i> , 2004, 36, 393-400.	4.6	10
15	Compact low-cost detector for in vivo assessment of microphytobenthos using laser induced fluorescence. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2013, 114, 471-477.	0.6	10
16	Simple eye-safe lidar for cloud height measurement and small forest fire detection. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2010, 109, 144-150.	0.6	9
17	Evaluation of oil spills by laser induced fluorescence spectra. <i>Proceedings of SPIE</i> , 2010, , .	0.8	9
18	Neural Network Based Recognition of Smoke Signatures from Lidar Signals. <i>Neural Processing Letters</i> , 2004, 19, 175-189.	3.2	8

#	ARTICLE	IF	CITATIONS
19	Low-cost active optical system for fire surveillance. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0.784314 rgBT /Over	0.6	0
20	Comparison of eye-safe UV and IR lidar for small forest-fire detection. , 2002, , .		5
21	Numerical analysis of operating conditions of a continuous-action HF chemical laser. Combustion, Explosion and Shock Waves, 1979, 15, 75-81.	0.8	2
22	Application of rangefinder for small forest fire detection. , 2006, 6359, 259.		2
23	Laminar mixing of planar supersonic chemically reacting jets of unequal pressure. Fluid Dynamics, 1982, 17, 343-347.	0.9	1
24	Mixing of plane laminar relaxing gas jets with radiation taken into account. Fluid Dynamics, 1978, 13, 447-451.	0.9	0
25	Turbulent mixing of relaxing gases in a supersonic nozzle. Fluid Dynamics, 1981, 16, 281-285.	0.9	0
26	Numerical investigation of vibrational relaxation during turbulent mixing of jets in a supersonic nozzle. Journal of Engineering Physics, 1982, 42, 402-407.	0.0	0
27	Question of numerical modeling of stationary mixing of off-design jets with nonequilibrium processes taken into account. Combustion, Explosion and Shock Waves, 1984, 20, 412-418.	0.8	0
28	Vibrationally nonequilibrium flow of a compressible gas in an axisymmetric channel in the presence of glow discharge. Fluid Dynamics, 1986, 20, 929-934.	0.9	0
29	Vibrational relaxation during mixing of undesigned two-dimensional streams. Journal of Applied Mechanics and Technical Physics, 1986, 26, 831-836.	0.5	0
30	Some characteristics of mixing and relaxation in Co2 gas-dynamic laser with selective excitation. Journal of Engineering Physics, 1987, 52, 71-75.	0.0	0
31	Choice of turbulence model for calculating gas dynamic CO2 lasers with selective thermal excitation. Fluid Dynamics, 1991, 25, 788-794.	0.9	0
32	Neural Network Based Recognition of Smoke. Neural Processing Letters, 2004, 20, 137-137.	3.2	0
33	Calculation of the optimal location and minimum number of lidar apparatuses required for early forest fire detection in hilly terrain. , 2004, , .		0
34	Automatic recognition of smoke-plume signatures in lidar signal. , 2008, , .		0
35	Experimental and theoretical investigation of forest fire detection by a portable eye-safe lidar operating at 1540 nm. , 2008, , .		0
36	Active methods of early forest fire detection. , 2010, , .		0