Alexander V Lavrov

List of Publications by Year
in descending order

36	406	840776 11	752698 20
papers	citations	h-index	g-index

37	37	37	277
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Calculation of hydrodynamic coefficients of ship sections in roll motion using Navier-Stokes equations. Ocean Engineering, 2017, 133, 36-46.	4.3	23
2	Compact low-cost detector for in vivo assessment of microphytobenthos using laser induced fluorescence. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 114, 471-477.	0.6	10
3	Water stress assessment of cork oak leaves and maritime pine needles based on LIF spectra. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2012, 112, 271-279.	0.6	18
4	Effects of intertidal Âmicrophytobenthos migration on biomass determination via laser-induced Âfluorescence. Marine Ecology - Progress Series, 2011, 432, 45-52.	1.9	17
5	Active methods of early forest fire detection. , 2010, , .		0
6	Simple eye-safe lidar for cloud height measurement and small forest fire detection. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 109, 144-150.	0.6	9
7	Evaluation of oil spills by laser induced fluorescence spectra. Proceedings of SPIE, 2010, , .	0.8	9
8	Low-cost active optical system for fire surveillance. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	6
9	Laser rangefinder architecture as a cost-effective platform for lidar fire surveillance. Optics and Laser Technology, 2009, 41, 862-870.	4.6	13
10	Automatic recognition of smoke-plume signatures in lidar signal. , 2008, , .		0
11	Experimental and theoretical investigation of forest fire detection by a portable eye-safe lidar operating at 1540 nm. , 2008, , .		0
12	Optimisation of location and number of lidar apparatuses for early forest fire detection in hilly terrain. Fire Safety Journal, 2006, 41, 144-154.	3.1	12
13	Evaluation of smoke dispersion from forest fire plumes using lidar experiments and modelling. International Journal of Thermal Sciences, 2006, 45, 848-859.	4.9	36
14	Application of rangefinder for small forest fire detection. , 2006, 6359, 259.		2
15	Design of committee machines for classification of single-wavelength lidar signals applied to early forest fire detection. Pattern Recognition Letters, 2005, 26, 625-632.	4.2	11
16	Eye-safe lidar measurements for detection and investigation of forest-fire smoke. International Journal of Wildland Fire, 2004, 13, 401.	2.4	12
17	Neural Network Based Recognition of Smoke Signatures from Lidar Signals. Neural Processing Letters, 2004, 19, 175-189.	3.2	8
18	Development of neural network committee machines for automatic forest fire detection using lidar. Pattern Recognition, 2004, 37, 2039-2047.	8.1	56

#	Article	IF	Citations
19	Neural Network Based Recognition of Smoke. Neural Processing Letters, 2004, 20, 137-137.	3.2	0
20	Multi-objective optimisation of lidar parameters for forest-fire detection on the basis of a genetic algorithm. Optics and Laser Technology, 2004, 36, 393-400.	4.6	10
21	Calculation of the optimal location and minimum number of lidar apparatuses required for early forest fire detection in hilly terrain. , 2004, , .		0
22	Application of lidar in ultraviolet, visible and infrared ranges for early forest fire detection. Applied Physics B: Lasers and Optics, 2003, 76, 87-95.	2.2	25
23	Feasibility of forest-fire smoke detection using lidar. International Journal of Wildland Fire, 2003, 12, 159.	2.4	36
24	Comparison of eye-safe UV and IR lidar for small forest-fire detection. , 2002, , .		5
25	Detection of small forest fires by lidar. Applied Physics B: Lasers and Optics, 2002, 74, 77-83.	2.2	60
26	Estimation of required parameters for detection of small smoke plumes by lidar at 1.54ÂÎ¼m. Applied Physics B: Lasers and Optics, 2000, 71, 225-229.	2.2	24
27	Choice of turbulence model for calculating gas dynamic CO2 lasers with selective thermal excitation. Fluid Dynamics, 1991, 25, 788-794.	0.9	0
28	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
29	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
30	Vibrational relaxation during mixing of undesigned two-dimensional streams. Journal of Applied Mechanics and Technical Physics, 1986, 26, 831-836.	0.5	0
31	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
32	Laminar mixing of planar supersonic chemically reacting jets of unequal pressure. Fluid Dynamics, 1982, 17, 343-347.	0.9	1
33	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
34	Turbulent mixing of relaxing gases in a supersonic nozzle. Fluid Dynamics, 1981, 16, 281-285.	0.9	0
35	Numerical analysis of operating conditions of a continuous-action HF chemical laser. Combustion, Explosion and Shock Waves, 1979, 15, 75-81.	0.8	2
36	Mixing of plane laminar relaxing gas jets with radiation taken into account. Fluid Dynamics, 1978, 13, 447-451.	0.9	0