Mayor Aleksandr

List of Publications by Year
in descending order

61	307	1039406 9	996533 15
papers	citations	h-index	g-index

62	62	62	261
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Laser printing of resonant plasmonic nanovoids. Nanoscale, 2016, 8, 12352-12361.	2.8	49
2	The influence of laser pulse repetition rate on the intensity of spectral lines in femtosecond laser-induced breakdown spectroscopy of a liquid. Technical Physics Letters, 2015, 41, 1044-1046.	0.2	18
3	Optical properties of Peter the Great Bay waters compared with satellite ocean colour data. International Journal of Remote Sensing, 2010, 31, 4651-4664.	1.3	17
4	Broadening and shift of emission lines in a plasma of filaments generated by a tightly focused femtosecond laser pulse in air. Quantum Electronics, 2018, 48, 149-156.	0.3	15
5	A mobile complex for on-line studying water areas and surface atmosphere. Instruments and Experimental Techniques, 2014, 57, 68-71.	0.1	14
6	Foaming of blood in endovenous laser treatment. Lasers in Medical Science, 2018, 33, 1821-1826.	1.0	14
7	Measurement of the lightscattering layers structure and detection of the dynamic processes in the upper ocean layer by shipborne lidar. International Journal of Remote Sensing, 1998, 19, 707-715.	1.3	13
8	Nonlinear optical properties of biomineral and biomimetical nanocomposite structures. Laser Physics, 2011, 21, 630-636.	0.6	13
9	Influence of the pressure of a gaseous atmosphere on the characteristics of the emission spectra of a laser plasma generated on the surfaces of solid targets. Quantum Electronics, 1998, 28, 685-688.	0.3	11
10	Supercontinuum generation and filamentation of ultrashort laser pulses in hybrid silicate nanocomposite materials on the basis of polysaccharides and hyperbranched polyglycidols. Quantum Electronics, 2013, 43, 370-373.	0.3	10
11	Laser Spectroscopic Sensors for the Development of Anthropomorphic Robot Sensitivity. Sensors, 2018, 18, 1680.	2.1	10
12	Hydrodynamic instabilities of thin Au/Pd alloy film induced by tightly focused femtosecond laser pulses. Applied Surface Science, 2015, 337, 224-229.	3.1	9
13	Vertical profile of polarization over Vladivostok using horizon shadowing: Clues to understanding the altitude variation of reflectance of aerosol particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 204, 94-102.	1.1	9
14	Continuous measurements of chlorophyll-a concentration in the Pacific Ocean by shipborne laser fluorometer and radiometer: Comparison with SeaWiFS data. International Journal of Remote Sensing, 2001, 22, 415-427.	1.3	8
15	Modification of a new polymer photorecording material based on PMMA doped with 2,2-difluoro-4-(9-antracyl)-6-methyl-1,3,2-dioxaborine by ultrashort pulses. Quantum Electronics, 2015, 45, 477-481.	0.3	8
16	Dynamics of the structure of multiple filamentation domain of laser pulses in glass. Atmospheric and Oceanic Optics, 2017, 30, 222-225.	0.6	8
17	Results of an integrated aerosol experiment in the continentocean transition zone (primorye and the) Tj ETQq1 1 0.784314 rgBT /Ove satellite data and lidar measurements. Atmospheric and Oceanic Optics, 2011, 24, 198-206.	0.6	7
18	Complex monitoring of the state of sea water basins by optical methods. Part 1. The concept of constructing the multilevel measurement systems for ecological monitoring of coastal water basins. Atmospheric and Oceanic Optics, 2012, 25, 446-450.	0.6	7

#	Article	IF	Citations
19	Nonlinear optical properties and supercontinuum spectrum of titania-modified carbon quantum dots. Quantum Electronics, 2016, 46, 335-337.	0.3	7
20	Limits of Detection of Chemical Elements in an Aqueous Aerosol in Filament-Induced Breakdown Spectroscopy. Journal of Applied Spectroscopy, 2021, 88, 337-342.	0.3	7
21	An immersible fiber-optic fluorometer. Instruments and Experimental Techniques, 2007, 50, 828-832.	0.1	6
22	Results of an integrated aerosol experiment in the continent-ocean transition zone (Primorye and the) Tj ETQq0 0 0 rgBT /Overlock 10 T Atmospheric and Oceanic Optics, 2011, 24, 64-73.	0.6	6
23	Determination of the chlorophyll a concentration by MODIS-Aqua and VIIRS satellite radiometers in Eastern Arctic and Bering Sea. Izvestiya - Atmospheric and Oceanic Physics, 2016, 52, 988-998.	0.2	5
24	Laser spectroscopy methods in the development of laser sensor elements for underwater robotics. Atmospheric and Oceanic Optics, 2017, 30, 475-480.	0.6	5
25	Threshold energies for filamentation and spectral characteristics of supercontinuum generation in THEOS-based nanocomposite organosilicon media. Quantum Electronics, 2014, 44, 793-797.	0.3	4
26	Anomalous broadening and shift of emission lines in a femtosecond laser plasma filament in air. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 138, 97-105.	1.5	4
27	The Role of Blood Foaming in the Mechanism of Endovasal Laser Ablation. Flebologiya, 2018, 12, 261.	0.2	3
28	Specific features of the size distribution of atmospheric aerosol in the continent-ocean transition zone. Izvestiya - Atmospheric and Oceanic Physics, 2010, 46, 178-183.	0.2	2
29	Typical patterns of PBL structure and dynamics in transitional ocean-continent zone in summer and winter in Far East region. Proceedings of SPIE, 2012, , .	0.8	2
30	Complex monitoring of the state of sea water basins by optical methods: part 4. Fiber optic system for measurements of the phytoplankton concentration. Atmospheric and Oceanic Optics, 2013, 26, 432-437.	0.6	2
31	Multiple filamentation of collimated Ti:Sapphire laser beams in water. Atmospheric and Oceanic Optics, 2015, 28, 197-201.	0.6	2
32	Shift of the emission lines of aluminum in a laser plasma generated on the surface of a solid target in the atmosphere. Technical Physics Letters, 1997, 23, 913-914.	0.2	1
33	Shock wave effect on emission spectra of laser plasma induced on the surface of solid targets in gas atmosphere. , 1999, , .		1
34	A Shipborne Laser Fluorimeter for Studying Sea-Water Fluorescence Spectra. Instruments and Experimental Techniques, 2001, 44, 562-565.	0.1	1
35	Fiber optic fluorometer with dipping module. Measurement Techniques, 2008, 51, 40-43.	0.2	1
36	Interaction of the Femtosecond Laser Pulses with the New Silica Nanocomposites Containing Au and CdS. Advanced Materials Research, 0, 834-836, 60-63.	0.3	1

#	Article	IF	Citations
37	Investigation of the spectra of luminescence and Raman scattering in water and chlorophyll "a" excited by femtosecond laser pulses. Proceedings of SPIE, 2015, , .	0.8	1
38	Mobile hyper spectral optical complex for under satellite ocean research. , 2015, , .		1
39	Determination of the limits of detection of the elements in aqueous solutions by femtosecond LIBS depending on the laser pulse repetition rate. , 2017, , .		1
40	Observation of the Rabi Splitting of Oxygen Atomic Levels in Filament Plasma Formed by a Femtosecond Ti:Sa Laser Pulse. Technical Physics Letters, 2018, 44, 959-961.	0.2	1
41	Development and creation of a remote-controlled underwater laser induced breakdown spectrometer for analysis of the chemical composition of sea water and bottom sediments. , 2017, , .		1
42	Effect of Laser Pulse Repetition Rate on the Detection Limits of the Elemental Composition of Pollutants in Aqueous Solutions by Femtosecond Laser Induced Breakdown Spectroscopy. Atmospheric and Oceanic Optics, 2021, 34, 553-559.	0.6	1
43	Detection of anomalous self-reversal of emission lines of a laser plasma formed on the surface of a solid target in a normal atmosphere. Quantum Electronics, 1997, 27, 706-707.	0.3	0
44	<title>Statistical features of space distribution of chlorophyll a in the South Pacific using SeaWiFS data and shipborne laser fluorometer measurements</title>. , 2001, , .		0
45	<title>Comparison of some results of pigment concentrations measured by satellite and shipborne remote sensing methods</title>. , 2001, , .		0
46	<title>Laser observations of nocturnal boundary layers</title>. , 2005, 5851, 194.		0
47	Multiple filamentation of collimated beams Ti:Sapphire-laser in water. Proceedings of SPIE, 2014, , .	0.8	0
48	Investigation of features of processes Raman and fluorescence sea water depending on the time characteristics of the excitation radiation. , 2015, , .		0
49	Filamentation of collimated Ti:sapphire-laser pulses in water. Proceedings of SPIE, 2015, , .	0.8	0
50	Multiple filamentation Ti:Sapphire-laser pulses in water. Proceedings of SPIE, 2015, , .	0.8	0
51	The influence of titanium dioxide to nonlinear optical properties of carbon quantum dots. , 2016, , .		0
52	The equipment for time-resolved measurements of excitation-emission matrix of seawater fluorescence in natural conditions. , 2016, , .		0
53	The influence of energy and temporal characteristics of laser radiation on the structure of multiple filamentation domain in glass. , 2016, , .		0
54	Anomalous broadening and shift of emission lines in filaments. , 2017, , .		0

#	Article	IF	Citations
55	Investigation of the threshold of the filamentation and generation of supercontinuum depending on the concentration of chlorophyll a photosynthesing pigment in sea water. , 2017, , .		0
56	Spectral features of Raman scattering and fluorescence sea water induced by femtosecond laser pulses. , 2017, , .		0
57	Lidar sensing atmosphere by gigawatt femtosecond laser pulses in the continent-ocean transition zone. , 2018, , .		0
58	Limit of detection and dynamics of fluoresence spectrums of different types of oil products by induced femtosecond pulses. , 2018, , .		0
59	Contours of spectral lines and temporal characteristics of emission spectra in plasma of optical breakdown generated by single femtosecond laser pulses on surface of water solutions. , 2018, , .		0
60	Influence of the laser repetition rate on the limits of detection in the femtosecond LIBS of the water solutions. , 2019, , .		0
61	Investigation of the spectral and temporal characteristics of plasma radiation in the case of breakdown on the surface of Ca aqueous solutions generated by femtosecond laser pulses. , 2019, , .		0