Sergei P Nikitin

List of Publications by Year
in descending order

37	382	840776 11	794594 19
papers	citations	h-index	g-index

38	38	38	295
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High efficiency coupling and guiding of intense femtosecond laser pulses in preformed plasma channels in an elongated gas jet. Physical Review E, 1999, 59, R3839-R3842.	2.1	47
2	Identification of Explosives with Two-Dimensional Ultraviolet Resonance Raman Spectroscopy. Applied Spectroscopy, 2008, 62, 833-839.	2.2	39
3	Guiding of intense femtosecond pulses in preformed plasma channels. Optics Letters, 1997, 22, 1787.	3.3	38
4	Quantum state evolution of the fundamental mode in the process of second-harmonic generation. Journal of the European Optical Society Part B: Quantum Optics, 1991, 3, 105-113.	1.2	33
5	Identification of Bacteria from Two-Dimensional Resonant-Raman Spectra. Analytical Chemistry, 2007, 79, 5489-5493.	6.5	33
6	Distributed temperature sensor based on a phase-sensitive optical time-domain Rayleigh reflectometer. Laser Physics, 2018, 28, 085107.	1.2	31
7	New Approach to Laser Characterization Using Delayed Self-Heterodyne Interferometry. Journal of Lightwave Technology, 2021, 39, 5191-5196.	4.6	18
8	Ionization-induced pulse shortening and retardation of high intensity femtosecond laser pulses. Optics Communications, 1998, 157, 139-144.	2.1	16
9	Generation of ultrasound in materials using continuous-wave lasers. Optics Letters, 2012, 37, 830.	3.3	16
10	Characterization of Ultra-Narrow Linewidth Lasers for Phase-Sensitive Coherent Reflectometry Using EOM Facilitated Heterodyning. Journal of Lightwave Technology, 2020, 38, 1446-1453.	4.6	14
11	Production of cumulative jets by ablatively-driven implosion of hollow cones and wedges. Physics of Plasmas, 2008, 15, 050703.	1.9	11
12	Extending the operation range of a phase-sensitive optical time-domain reflectometer by using fibre with chirped Bragg gratings. Quantum Electronics, 2020, 50, 510-513.	1.0	11
13	Influence of modulation instability on the operation of phase-sensitive optical time domain reflectometers. Laser Physics, 2016, 26, 105106.	1.2	10
14	Observed transition from Richtmyer-Meshkov jet formation through feedout oscillations to Rayleigh-Taylor instability in a laser target. Physics of Plasmas, 2012, 19, .	1.9	9
15	Wavelengthâ€dependent amplitude of Teflon Raman lines. Journal of Raman Spectroscopy, 2011, 42, 685-690.	2.5	8
16	Multiwavelength Resonance Raman Characterization of the Effect of Growth Phase and Culture Medium on Bacteria. Applied Spectroscopy, 2015, 69, 966-971.	2.2	7
17	Measurement accuracy and spatial resolution of a distributed temperature sensor based on a two-pulse differential coherent reflectometer. Quantum Electronics, 2020, 50, 882-887.	1.0	7
18	Continuous laser generation of ultrasound for nondestructive evaluation. , 2012, , .		6

#	Article	IF	Citations
19	Modified Åolc notch filter for deep ultraviolet applications. Applied Optics, 2009, 48, 1184.	2.1	4
20	A technique for contactless measurement of water temperature using Stokes and anti-Stokes comparative Raman spectroscopy. Review of Scientific Instruments, 2012, 83, 033105.	1.3	4
21	Automated identification of components in a chemical mixture utilizing multiâ€wavelength resonantâ€Raman spectroscopy and a Pearson correlation algorithm. Journal of Raman Spectroscopy, 2012, 43, 1472-1476.	2.5	4
22	Operating range limitations of the Phase-Sensitive Optical Time-Domain Reflectometer assisted by Raman amplifiers. , 2018, , .		4
23	Tracing the phase distortion of a single ultrashort light pulse from angularly resolved second-harmonic autocorrelation. Optics Communications, 1998, 156, 43-48.	2.1	3
24	Tunable multi-wavelength resonance-Raman detection of bacteria and chemicals in complex environments. Proceedings of SPIE, 2010, , .	0.8	3
25	Wavelength beam combining by spectrally selective polarization transformation. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2842.	2.1	3
26	Observation of ionization instability of intense laser pulses. , 1999, 3776, 249.		1
27	Specular integrating tube for scattered-light spectroscopy. Applied Optics, 2010, 49, 4063.	2.1	1
28	Multi-wavelength resonance Raman spectroscopy of bacteria to study the effects of growth condition. , 2012, , .		1
29	Compact fiber-optic compressor of ultrashort pulses. Soviet Journal of Quantum Electronics, 1992, 22, 178-181.	0.1	0
30	Ionization-induced propagation effects of high-intensity femtosecond laser pulses in a neutral gas. , 1998, , .		0
31	Real-time dispersion measurement of a femtosecond laser amplifier with spectrally resolved interferometer. , 2001, , .		0
32	Spectrally resolved interferometric auto-correlation technique for femtosecond optical measurements. , 0, , .		0
33	Swept-wavelength optical resonance-Raman device (SWOrRD) for detection of chemicals and microorganisms. , 2008, , .		0
34	Detection of chemicals in mixed, two-dimensional Raman spectra. Proceedings of SPIE, 2010, , .	0.8	0
35	Multi-wavelength Surface-Enhanced Raman Scattering from Molecules Adsorbed on Plasmonic Nanowires. , 2012, , .		0
36	Continuous Laser Generation of Ultrasound in Materials using High Power Fiber Lasers. , 2012, , .		0

#	Article	IF	Citations
37	Plasma Waveguide: Density Development and High Intensity Guiding. , 1998, , 113-121.		0