A Ya Bekshaev

List of Publications by Year
in descending order

18	931	567281 15	888059 17
papers	citations	h-index	g-index

18	18	18	473
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Orbital rotation without orbital angular momentum: mechanical action of the spin part of the internal energy flow in light beams. Optics Express, 2012, 20, 3563.	3.4	116
2	Optical vortex symmetry breakdown and decomposition of the orbital angular momentum of light beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 1635.	1.5	97
3	Subwavelength particles in an inhomogeneous light field: optical forces associated with the spin and orbital energy flows. Journal of Optics (United Kingdom), 2013, 15, 044004.	2.2	89
4	Self-diffraction of continuous laser radiation in a disperse medium with absorbing particles. Optics Express, 2013, 21, 8922.	3.4	84
5	Circular motion of particles suspended in a Gaussian beam with circular polarization validates the spin part of the internal energy flow. Optics Express, 2012, 20, 11351.	3.4	83
6	Manifestation of the rotational Doppler effect by use of an off-axis optical vortex beam. Optics Letters, 2003, 28, 1185.	3.3	62
7	Self-action of continuous laser radiation and Pearcey diffraction in a water suspension with light-absorbing particles. Optics Express, 2014, 22, 2267.	3.4	60
8	Scattering of inhomogeneous circularly polarized optical field and mechanical manifestation of the internal energy flows. Physical Review A, 2012, 86, .	2.5	56
9	Measurement of small light absorption in microparticles by means of optically induced rotation. Optics Express, 2015, 23, 7152.	3.4	56
10	Controllable generation and manipulation of micro-bubbles in water with absorptive colloid particles by CW laser radiation. Optics Express, 2017, 25, 5232.	3.4	56
11	Oblique section of a paraxial light beam: criteria for azimuthal energy flow and orbital angular momentum. Journal of Optics, 2009, 11, 094003.	1.5	38
12	An optical vortex as a rotating body: mechanical features of a singular light beam. Journal of Optics, 2004, 6, S170-S174.	1.5	31
13	Low-temperature laser-stimulated controllable generation of micro-bubbles in a water suspension of absorptive colloid particles. Optics Express, 2018, 26, 13995.	3.4	29
14	Mechanical Action of Inhomogeneously Polarized Optical Fields and Detection of the Internal Energy Flows. Advances in Optical Technologies, 2011, 2011, 1-11.	0.8	29
15	Centrifugal transformation of the transverse structure of freely propagating paraxial light beams. Optics Letters, 2006, 31, 694.	3.3	20
16	Description of the morphology of optical vortices using the orbital angular momentum and its components. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 100, 910-915.	0.6	13
17	Manifestation of mechanical properties of light waves in vortex beam optical systems. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2000, 88, 904-910.	0.6	9
18	Correlation Optics, Coherence and Optical Singularities: Basic Concepts and Practical Applications. Frontiers in Physics, 0, 10, .	2.1	3