

Vp Torchigin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Steady states and stability of the circulating light in the air atmosphere. <i>Optik</i> , 2021, 235, 166635.	2.9	7
2	Sonoluminescence and circulating light. <i>Optik</i> , 2021, 239, 166799.	2.9	0
3	Unknown features of a behavior of the circulating light. <i>Optik</i> , 2021, 241, 167233.	2.9	0
4	Ball lightning and the Chernobyl accident. <i>Optik</i> , 2021, 241, 167224.	2.9	0
5	Influence of the circulating light on anomalous properties of glowing objects. <i>Optik</i> , 2021, 242, 167090.	2.9	0
6	Behavior of the circulating light in a mixture of gases. <i>Optik</i> , 2021, 243, 167398.	2.9	0
7	Circulating light that burns out holes in metal sheets. <i>Optik</i> , 2021, 243, 167528.	2.9	0
8	Circulating light at continuous electrical current. <i>Optik</i> , 2021, 244, 167395.	2.9	0
9	Circulating light and a separation of components of a mixture of gases. <i>Optik</i> , 2021, 244, 167524.	2.9	0
10	Parameters of natural ball lightning derived from its optical model. <i>Optik</i> , 2021, 243, 167390.	2.9	0
11	Momentum and mass of a pulse of light wave as a particular case of waves of arbitrary physical nature. <i>Optik</i> , 2020, 202, 163605.	2.9	4
12	Simple explanation of physical nature of ball lightning. <i>Optik</i> , 2020, 203, 164013.	2.9	12
13	Physical and optical laws responsible for existence and abnormal behavior of ball lightning. <i>Optik</i> , 2020, 222, 165374.	2.9	7
14	Physical phenomena responsible for stability and spherical form of ball lightning. <i>Optik</i> , 2020, 219, 165098.	2.9	10
15	Comparison of the stabilities of a soap bubble and the ball lightning in the form of a bubble of light. <i>Optik</i> , 2020, 219, 165095.	2.9	10
16	Momentum of an arbitrary wave derived from the Doppler law. <i>Optik</i> , 2020, 204, 163518.	2.9	7
17	Dozen arguments in favor of the Minkowski form of the momentum of light in matter. <i>Optik</i> , 2020, 218, 164986.	2.9	3
18	Ratio of the momentums of an arbitrary wave propagating in various media. <i>Optik</i> , 2020, 219, 164987.	2.9	2

#	ARTICLE	IF	CITATIONS
19	Another argument in favor of the Minkowski form of the momentum of light in matter. Optik, 2019, 194, 163127.	2.9	5
20	Mass of the photon propagating in an optical medium and mass of its electromagnetic and mechanical components. Optik, 2019, 194, 163125.	2.9	6
21	How ball lightning finds out slots and holes to penetrate through them. Optik, 2019, 194, 163126.	2.9	12
22	Ball lightning as a bubble of light: Existence and stability. Optik, 2019, 193, 162961.	2.9	14
23	Optical electrostriction pressure in liquid, solids and gases. Optik, 2019, 189, 90-96.	2.9	13
24	Physics of a ball lightning in a form of a bubble of light. Optik, 2019, 188, 294-301.	2.9	14
25	How optical model of ball lightning explains its paradoxical movement upwind. Optik, 2019, 184, 533-537.	2.9	15
26	Additional arguments in favor of the Minkowski form of the momentum of light in matter. Optik, 2019, 186, 390-394.	2.9	7
27	Why ball lightning disappears suddenly traceless. Optik, 2019, 187, 65-69.	2.9	14
28	Ball lightning as a bubble of self-confined light. Optik, 2019, 186, 63-71.	2.9	14
29	Momentum of a wave of any physical nature in a context of the Abraham-Minkowski dilemma. Optik, 2019, 187, 148-151.	2.9	6
30	Explanation of abnormal motion of glowing silicon balls in a framework of optical model of ball lightning. Optik, 2019, 176, 704-710.	2.9	16
31	Momentum of a wave and additional forces connected with the momentum. Optik, 2018, 158, 861-869.	2.9	15
32	Explanation of anomalous bouncing luminous droplets of liquid silicon in a framework of the optical model of ball lightning. Optik, 2018, 171, 88-94.	2.9	15
33	Explanation of abnormal behavior of ball lightning near the earth surface. Optik, 2018, 171, 167-170.	2.9	20
34	Explanation of abnormal motion of ball lightning near the earth's surface. Optik, 2018, 171, 149-152.	2.9	5
35	Optical electrostriction pressure and its influence on the momentum of the light pulse in an optical medium. Optik, 2017, 148, 120-123.	2.9	9
36	How ball lightning manages to catch up a flying aircraft and penetrate into its salon. Optik, 2017, 148, 196-200.	2.9	21

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37	Stability of the self-confined light. <i>Optik</i> , 2016, 127, 2298-2300.	2.9	19
38	How the ball lightning enters the room through the window panes. <i>Optik</i> , 2016, 127, 5876-5881.	2.9	25
39	Optical pressure applied to a semi-infinite dielectric. <i>Optik</i> , 2016, 127, 6066-6070.	2.9	14
40	The equation of motion of the photon in an optical medium. <i>Optik</i> , 2016, 127, 6768-6770.	2.9	12
41	Photon momentum and optically induced force in matter derived from the eikonal equation. <i>Optik</i> , 2016, 127, 8604-8606.	2.9	9
42	Nonlinear properties of gaseous optical mediums in a context of ball lightning explanation. <i>Optik</i> , 2016, 127, 2319-2324.	2.9	21
43	How Ball Lightning penetrates in room through small holes and splits. <i>Optik</i> , 2016, 127, 6155-6161.	2.9	22
44	Photon and physical phenomena responsible for its momentum. <i>Optik</i> , 2016, 127, 6120-6128.	2.9	15
45	Physical nature and magnitude of optically induced forces derived from laws of mechanics. <i>Optik</i> , 2016, 127, 5976-5983.	2.9	12
46	Ball Lightning as a self-confined light. <i>Optik</i> , 2016, 127, 2202-2206.	2.9	18
47	Kinds of optically induced force derived from laws of conservation of the momentum and energy. <i>Optik</i> , 2015, 126, 1878-1883.	2.9	16
48	Radiation pressure on plane dielectric surfaces. <i>Optik</i> , 2015, 126, 1767-1772.	2.9	13
49	The momentum of an electromagnetic wave inside a dielectric derived from the Snell refraction law. <i>Annals of Physics</i> , 2014, 351, 444-446.	2.8	23
50	Propagation of a light pulse inside matter in a context of the Abraham-Minkowski dilemma. <i>Optik</i> , 2014, 125, 2687-2691.	2.9	23
51	Interrelation between various types of optically induced forces. <i>Optics Communications</i> , 2013, 301-302, 147-151.	2.1	18
52	Comparison of various approaches to the calculation of optically induced forces. <i>Annals of Physics</i> , 2012, 327, 2288-2300.	2.8	32
53	On phenomenon of light radiation from miniature balls immersed in water. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 588-591.	2.1	9
54	Self-organization of intense light within erosive gas discharges. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 361, 167-172.	2.1	29

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55	Phenomenon of ball lightning and its outgrowths. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 337, 112-120.	2.1	26
56	Space solitons in gas mixtures. Optics Communications, 2004, 240, 449-455.	2.1	27
57	Behavior of self-confined spherical layer of light radiation in the atmosphere. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 328, 189-195.	2.1	40
58	An increase in the wavelength of light pulses propagating through a fiber. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 311, 21-25.	2.1	3