

Evgueni F Martynovich

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83

papers

337

citations

11

h-index

15

g-index

109

ext. papers

433

ext. citations

1.1

avg, IF

3.1

L-index

#	Paper	IF	Citations
83	Tonoplast of <i>Beta vulgaris</i> L. contains detergent-resistant membrane microdomains. <i>Planta</i> , 2013 , 237, 859-71	4.7	34
82	Formation of luminescent emitters by intense laser radiation in transparent media. <i>Quantum Electronics</i> , 2013 , 43, 463-466	1.8	28
81	Nanocomposites with Magnetic, Optical, Catalytic, and Biologically Active Properties Based on Arabinogalactan. <i>Doklady Chemistry</i> , 2003 , 393, 287-288	0.8	28
80	Lasing in Al ₂ O ₃ color centers at room temperature in the visible. <i>Optics Communications</i> , 1985 , 53, 257-258		21
79	Formation and properties of metallic nanoparticles in lithium and sodium fluorides with radiation-induced color centers. <i>Physics of the Solid State</i> , 2012 , 54, 2374-2379	0.8	18
78	Color centers aggregation kinetics in lithium fluoride after gamma irradiation. <i>Journal of Luminescence</i> , 2013 , 143, 207-214	3.8	14
77	Multiple growth events in diamonds with cloudy microinclusions from the Mir kimberlite pipe: evidence from the systematics of optically active defects. <i>Russian Geology and Geophysics</i> , 2015 , 56, 330-343	1	13
76	Radiation defect formation processes as a method for activation of red phosphorus in the Trofimov-Gusarova reaction. <i>Arkivoc</i> , 2003 , 2003, 196-204	0.9	12
75	Formation of color centers and light scattering structures by femtosecond laser pulses in sodium fluoride. <i>Optics Communications</i> , 2014 , 330, 56-60	2	11
74	Highly nonlinear fundamental mechanisms of excitation and coloring of wide-gap crystals by intense femtosecond laser pulses. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2008 , 105, 348-351	0.7	11
73	Al ₂ O ₃ color center lasing in near infrared at 300 K. <i>Optics Communications</i> , 1985 , 53, 254-256	2	11
72	The aggregation and characteristics of radiation-induced defects in lithium fluoride nanocrystals. <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 130-136	0.9	10
71	Luminescent properties of radiation induced defects in sodium and magnesium fluorides nanocrystals. <i>Journal of Luminescence</i> , 2018 , 201, 57-64	3.8	9
70	Structural changes accompanying color center formation in lithium fluoride exposed to femtosecond laser pulses. <i>Inorganic Materials</i> , 2014 , 50, 625-630	0.9	9
69	Simulation of filamentation of single femtosecond laser pulses in LiF. <i>Laser Physics</i> , 2014 , 24, 074001	1.2	7
68	Aggregate color center formation processes in lithium fluoride crystals after irradiation. <i>Journal of Applied Spectroscopy</i> , 2011 , 77, 857-868	0.7	7
67	Complex cylindrical vector beam excludes the orientation dependence of the intensity of scanning fluorescence images of single molecules. <i>JETP Letters</i> , 2013 , 97, 52-56	1.2	6

66	Luminescence in diamonds of the Sб Luiz placer (Brazil). <i>Russian Geology and Geophysics</i> , 2015 , 56, 729-736	5	
65	Application of lasers utilizing color centers in alkali halide crystals to intracavity laser spectroscopy. <i>Soviet Journal of Quantum Electronics</i> , 1979 , 9, 51-54	5	
64	Creating of luminescent defects in crystalline media by a scanning laser beam. <i>Applied Physics Letters</i> , 2019 , 114, 121901	3.4	4
63	Fabrication of metal-dielectric nanocomposites using a table-top ion implanter. <i>Surface and Coatings Technology</i> , 2020 , 393, 125742	4.4	4
62	Photoinduced formation of metal nanoparticles in irradiated sodium-fluoride crystals. <i>Journal of Surface Investigation</i> , 2013 , 7, 617-621	0.5	4
61	Modulation of luminescence intensity in anisotropic crystals under excitation by ultrashort pulses. <i>Optical and Quantum Electronics</i> , 1995 , 27, 725-734	2.4	4
60	Formation of color centers in a thin layer of LiF crystals under VUV radiation from a barrier discharge. <i>Technical Physics Letters</i> , 2014 , 40, 393-396	0.7	3
59	Point defects isomerism in lithium fluoride crystals and nanocrystals. <i>Crystal Research and Technology</i> , 2013 , 48, 381-386	1.3	3
58	Highly sensitive nonlinear luminescent ceramics for volumetric and multilayer data carriers. <i>Quantum Electronics</i> , 2015 , 45, 953-958	1.8	3
57	Systematic features of diffusion and aggregation of intrinsic defects in dielectric crystals. <i>Physics of the Solid State</i> , 2012 , 54, 1768-1775	0.8	3
56	Creation of luminescent defects in crystals by coherent pairs of femtosecond laser pulses. <i>Journal of Luminescence</i> , 2021 , 234, 117989	3.8	3
55	Formation of a Thin Luminescent Layer in LiF Crystals under Glow Discharge Radiation. <i>Technical Physics Letters</i> , 2018 , 44, 659-662	0.7	3
54	Diffusion and aggregation of subsurface radiation defects in lithium fluoride nanocrystals. <i>Physics of the Solid State</i> , 2015 , 57, 1752-1758	0.8	2
53	Peculiar properties of some components in a plant cell vacuole morphological structure revealed by confocal microscopy. <i>Cell and Tissue Biology</i> , 2015 , 9, 406-414	0.4	2
52	Luminescent centers in nanolayers of LiF crystals with embedded silver ions. <i>Journal of Physics: Conference Series</i> , 2017 , 830, 012145	0.3	2
51	Temperature Dependence of the Red Photoluminescence Spectra of Diamonds. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2019 , 83, 310-313	0.4	2
50	Luminescent scanning confocal microscope modified for observation of arbitrarily oriented single quantum systems. <i>Technical Physics Letters</i> , 2012 , 38, 387-391	0.7	2
49	Luminescence Properties of Surface Radiation-Induced Defects in Lithium Fluoride. <i>Journal of Applied Spectroscopy</i> , 2013 , 80, 731-736	0.7	2

48	Localization of 523 and 794 defects in diamond. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 1099-1104	0.4	2
47	A method for studying the multipolarity and orientation of elementary oscillators in cubic crystals on the basis of axially periodic dependence of the luminescence intensity. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2004 , 96, 857-861	0.7	2
46	Effect of the dispersion spread of an ultrashort pulse on the results of measurements with a femtosecond crystal interferometer. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2003 , 95, 766-770	0.7	2
45	Miniature active elements for color-center lasers with an extremely low lasing threshold. <i>Soviet Journal of Quantum Electronics</i> , 1988 , 18, 26-28		2
44	Laser recording of color voxels in lithium fluoride. <i>Optics and Laser Technology</i> , 2020 , 131, 106430	4.2	2
43	Formation of defects in lithium fluoride ceramics upon irradiation with femtosecond laser pulses. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 60-63	0.4	2
42	Quantum trajectories of photoluminescence of F ² centers in a LiF crystal. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 81-84	0.4	2
41	Temperature quenching of the luminescence of SiV centers in CVD diamond films. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 1154-1158	0.4	1
40	Storing energy in lithium fluoride crystals irradiated with femtosecond laser pulses. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 85-88	0.4	1
39	The role of heat effects in the process of formation of color centers in LiF during filamentation of femtosecond laser pulses. <i>EPJ Web of Conferences</i> , 2019 , 220, 02007	0.3	1
38	The accumulation of femtosecond laser radiation energy in crystals of lithium fluoride 2015 ,		1
37	Properties of femtosecond laser-induced defects in alkali metal fluoride crystals. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014 , 78, 1374-1378	0.4	1
36	Luminescent method for determining low concentrations of a substance in optically dense media. <i>Journal of Applied Spectroscopy</i> , 2011 , 78, 725-732	0.7	1
35	3D Fluorescent Imaging with Highly Nonlinear Photosensitive Materials 2011 ,		1
34	Modulation frequency doubling in the axially periodic dependence of the luminescence of F ⁺³ centers in LiF crystals. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2006 , 101, 265-270	0.7	1
33	Effect of X-ray Irradiation on the Reactivity of Red Phosphorus in the Synthesis of Organophosphorus Compounds. <i>Doklady Chemistry</i> , 2002 , 382, 19-20	0.8	1
32	Intraband radioluminescence of LiF crystals. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2000 , 88, 533-537	0.7	1
31	X-ray and thermally stimulated luminescence in YAG. <i>Journal of Applied Spectroscopy</i> , 1987 , 46, 44-46	0.7	1

30	Infrared luminescence and stimulated emission from color centers. <i>Journal of Applied Spectroscopy</i> , 1983 , 39, 1033-1037	0.7	1
29	Red luminescence decay kinetics in Brazilian diamonds. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 74-77	0.4	1
28	Luminescent properties of nanoparticles created by laser ablation of natural diamond single crystals 2021 ,		1
27	Fluorescent carbon quantum dots formed from glucose solution by microplasma treatment 2021 ,		1
26	Luminescent properties of carbon quantum dots synthesized by microplasma method. <i>Journal of Luminescence</i> , 2022 , 246, 118806	3.8	1
25	Study of the fluorescence blinking behavior of single F2color centers in LiF crystal. <i>Journal of Physics: Conference Series</i> , 2014 , 552, 012048	0.3	0
24	Investigation of single defects created in crystals by laser emission and hard radiation. <i>Journal of Physics: Conference Series</i> , 2017 , 793, 012018	0.3	0
23	Elementary-oscillator model for color centers with degenerate levels. <i>Physics of the Solid State</i> , 2008 , 50, 1761-1765	0.8	0
22	A Femtosecond Crystal Interferometric Autocorrelometer. <i>Instruments and Experimental Techniques</i> , 2003 , 46, 814-817	0.5	0
21	The piezomodulation method for investigating the multipolarity of elementary oscillators in cubic crystals. <i>Optics Communications</i> , 2003 , 224, 263-267	2	0
20	Monitoring the Heat of a Material during the Laser Formation of Defects. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2020 , 84, 811-814	0.4	0
19	Formation of aggregate color centers under the action of femtosecond laser pulses. <i>Journal of Physics: Conference Series</i> , 2018 , 1115, 052029	0.3	0
18	Transformation of the microstructure and luminescence characteristics of LiF films during annealing. <i>Physics of the Solid State</i> , 2016 , 58, 1772-1776	0.8	
17	Multiple filamentation of femtosecond laser pulses. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 64-67	0.4	
16	Spectral properties of a Nd ³⁺ -doped Li ₃ Ba ₂ Gd ₃ (MoO ₄) ₈ crystal. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 78-80	0.4	
15	Determining the orientation of single quantum systems by means of scanning fluorescence microscopy. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2013 , 77, 36-38	0.4	
14	On the influence of dispersion on the spatial distribution of the intensity of luminescence excited by opposing laser pulses. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2009 , 106, 121-126	0.7	
13	Static multislit dispersive optical spectrometers for solid-state spectroscopy. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2008 , 105, 478-479	0.7	

- 12 Complementary Golay series in multislit dispersion optical spectroscopy. *Journal of Optical Technology (A Translation of Opticheskii Zhurnal)*, **2008**, 75, 289 0.9
- 11 Static multislit dispersive optical spectrometer based on complementary Golay sequences. *Technical Physics Letters*, **2008**, 34, 453-455 0.7
- 10 Spatially periodic modulation of the level population upon saturation for centers with weak and strong electron-phonon interactions. *Physics of the Solid State*, **2008**, 50, 1779-1783 0.8
- 9 First Organophosphorus Nonlinear-Optical Media. *Doklady Chemistry*, **2004**, 394, 34-35 0.8
- 8 On a Spatially Selective Phototransformation Method for Investigation of Diffusion of Quantum Systems. *Russian Physics Journal*, **2003**, 46, 984-990 0.7
- 7 Luminescence, intrinsic photoeffect, and color-center conversion in anisotropic crystals under femtosecond laser excitation. *Russian Physics Journal*, **2000**, 43, 193-204 0.7
- 6 Luminescence of enrichment centers in yttrium-aluminum garnet crystals. *Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika)*, **1984**, 27, 73-76
- 5 Comment on Features of propagation of high-intensity laser pulses in Magnesium and Sodium fluoride crystals by L. Bryukvina, *Journal of Luminescence*, 162 (2015) 145-148. *Journal of Luminescence*, **2016**, 171, 259-264 3.8
- 4 Quantum trajectories of the photoluminescence of F² centers in a LiF crystal. *Bulletin of the Russian Academy of Sciences: Physics*, **2016**, 80, 89-92 0.4
- 3 Stochastic model of a nanocluster of a smoky quartz composition. *Glass Physics and Chemistry*, **2016**, 42, 480-483 0.7
- 2 Laser luminescent polarization microscopy of defects induced in lithium fluoride crystals by femtosecond pulses. *Journal of Physics: Conference Series*, **2018**, 1115, 052028 0.3
- 1 The theoretical substantiation of the spatial-modulation luminescent method for studying the orientations of quantum systems in crystals. *Journal of Luminescence*, **2021**, 240, 118469 3.8