

Evgueni F Martynovich

List of Publications by Year in descending order

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108
papers

485
citations

758635

12
h-index

794141

19
g-index

109
all docs

109
docs citations

109
times ranked

246
citing authors

#	ARTICLE	IF	CITATIONS
1	Tonoplast of <i>Beta vulgaris</i> L. contains detergent-resistant membrane microdomains. <i>Planta</i> , 2013, 237, 859-871.	1.6	45
2	Formation of luminescent emitters by intense laser radiation in transparent media. <i>Quantum Electronics</i> , 2013, 43, 463-466.	0.3	39
3	Nanocomposites with Magnetic, Optical, Catalytic, and Biologically Active Properties Based on Arabinogalactan. <i>Doklady Chemistry</i> , 2003, 393, 287-288.	0.2	34
4	Lasing in Al ₂ O ₃ color centers at room temperature in the visible. <i>Optics Communications</i> , 1985, 53, 257-258.	1.0	25
5	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.	0.2	19
6	Color centers aggregation kinetics in lithium fluoride after gamma irradiation. <i>Journal of Luminescence</i> , 2013, 143, 207-214.	1.5	17
7	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.	0.3	15
8	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.	0.2	14
9	Formation of color centers and light scattering structures by femtosecond laser pulses in sodium fluoride. <i>Optics Communications</i> , 2014, 330, 56-60.	1.0	14
10	Al ₂ O ₃ color center lasing in near infrared at 300 K. <i>Optics Communications</i> , 1985, 53, 254-256.	1.0	13
11	Simulation of filamentation of single femtosecond laser pulses in LiF. <i>Laser Physics</i> , 2014, 24, 074001.	0.6	13
12	Fabrication of metal-dielectric nanocomposites using a table-top ion implanter. <i>Surface and Coatings Technology</i> , 2020, 393, 125742.	2.2	13
13	Radiation defect formation processes as a method for activation of red phosphorus in the Trofimov-Gusarova reaction. <i>Arkivoc</i> , 2003, 2003, 196-204.	0.3	13
14	Structural changes accompanying color center formation in lithium fluoride exposed to femtosecond laser pulses. <i>Inorganic Materials</i> , 2014, 50, 625-630.	0.2	12
15	Creating of luminescent defects in crystalline media by a scanning laser beam. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	12
16	Photoinduced formation of metal nanoparticles in ¹³⁷ I-irradiated sodium-fluoride crystals. <i>Journal of Surface Investigation</i> , 2013, 7, 617-621.	0.1	11
17	The aggregation and characteristics of radiation-induced defects in lithium fluoride nanocrystals. <i>Radiation Effects and Defects in Solids</i> , 2013, 168, 130-136.	0.4	11
18	Luminescent properties of radiation induced defects in sodium and magnesium fluorides nanocrystals. <i>Journal of Luminescence</i> , 2018, 201, 57-64.	1.5	11

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19	Aggregate color center formation processes in lithium fluoride crystals after irradiation. Journal of Applied Spectroscopy, 2011, 77, 857-868.	0.3	9
20	Laser recording of color voxels in lithium fluoride. Optics and Laser Technology, 2020, 131, 106430.	2.2	8
21	Highly sensitive nonlinear luminescent ceramics for volumetric and multilayer data carriers. Quantum Electronics, 2015, 45, 953-958.	0.3	7
22	X-ray luminescence in diamonds and its application in industry. AIP Conference Proceedings, 2021, , .	0.3	7
23	Complex cylindrical vector beam excludes the orientation dependence of the intensity of scanning fluorescence images of single molecules. JETP Letters, 2013, 97, 52-56.	0.4	6
24	Luminescence in diamonds of the São Luiz placer (Brazil). Russian Geology and Geophysics, 2015, 56, 729-736.	0.3	6
25	Luminescent centers in nanolayers of LiF crystals with embedded silver ions. Journal of Physics: Conference Series, 2017, 830, 012145.	0.3	6
26	Generation of laser radiation by color centers in diamond crystals (review). AIP Conference Proceedings, 2021, , .	0.3	6
27	Application of lasers utilizing color centers in alkali halide crystals to intracavity laser spectroscopy. Soviet Journal of Quantum Electronics, 1979, 9, 51-54.	0.1	5
28	Modulation of luminescence intensity in anisotropic crystals under excitation by ultrashort pulses. Optical and Quantum Electronics, 1995, 27, 725-734.	1.5	5
29	Point defects isomerism in lithium fluoride crystals and nanocrystals. Crystal Research and Technology, 2013, 48, 381-386.	0.6	5
30	Creation of luminescent defects in crystals by coherent pairs of femtosecond laser pulses. Journal of Luminescence, 2021, 234, 117989.	1.5	5
31	Luminescence Properties of Surface Radiation-Induced Defects in Lithium Fluoride. Journal of Applied Spectroscopy, 2013, 80, 731-736.	0.3	4
32	Properties of femtosecond laser-induced defects in alkali metal fluoride crystals. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 1374-1378.	0.1	4
33	Formation of color centers in a thin layer of LiF crystals under VUV radiation from a barrier discharge. Technical Physics Letters, 2014, 40, 393-396.	0.2	4
34	Formation of a Thin Luminescent Layer in LiF Crystals under Glow Discharge Radiation. Technical Physics Letters, 2018, 44, 659-662.	0.2	4
35	Systematic features of diffusion and aggregation of intrinsic defects in dielectric crystals. Physics of the Solid State, 2012, 54, 1768-1775.	0.2	3
36	Study of the fluorescence blinking behavior of single F_{2^+} color centers in LiF crystal. Journal of Physics: Conference Series, 2014, 552, 012048.	0.3	3

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37	Diffusion and aggregation of subsurface radiation defects in lithium fluoride nanocrystals. <i>Physics of the Solid State</i> , 2015, 57, 1752-1758.	0.2	3
38	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.	0.1	3
39	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.	0.1	3
40	Localization of 523 and 794 defects in diamond. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017, 81, 1099-1104.	0.1	3
41	Temperature Dependence of the Red Photoluminescence Spectra of Diamonds. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2019, 83, 310-313.	0.1	3
42	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.	0.1	3
43	Luminescent properties of carbon quantum dots synthesized by microplasma method. <i>Journal of Luminescence</i> , 2022, 246, 118806.	1.5	3
44	X-ray and thermally stimulated luminescence in YAG. <i>Journal of Applied Spectroscopy</i> , 1987, 46, 44-46.	0.3	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.	0.1	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> , 2002, 10, 377-381.	0.2	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.	0.2	2
48	Luminescent scanning confocal microscope modified for observation of arbitrarily oriented single quantum systems. <i>Technical Physics Letters</i> , 2012, 38, 387-391.	0.2	2
49	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.	0.2	2
50	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.	0.1	2
51	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.	0.1	2
52	Formation of aggregate color centers under the action of femtosecond laser pulses. <i>Journal of Physics: Conference Series</i> , 2018, 1115, 052029.	0.3	2
53	Infrared luminescence and stimulated emission from color centers. <i>Journal of Applied Spectroscopy</i> , 1983, 39, 1033-1037.	0.3	1
54	Intraband radioluminescence of LiF crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2002, 10, 377-381.	0.2	1

#	ARTICLE	IF	CITATIONS
55	Title is missing!. Doklady Chemistry, 2002, 382, 19-20.	0.2	1
56	A Femtosecond Crystal Interferometric Autocorrelometer. Instruments and Experimental Techniques, 2003, 46, 814-817.	0.1	1
57	The piezomodulation method for investigating the multipolarity of elementary oscillators in cubic crystals. Optics Communications, 2003, 224, 263-267.	1.0	1
58	Modulation frequency doubling in the axially periodic dependence of the luminescence of F 3 + centers in LiF crystals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 101, 265-270.	0.2	1
59	Elementary-oscillator model for color centers with degenerate levels. Physics of the Solid State, 2008, 50, 1761-1765.	0.2	1
60	Luminescent method for determining low concentrations of a substance in optically dense media. Journal of Applied Spectroscopy, 2011, 78, 725-732.	0.3	1
61	3D Fluorescent Imaging with Highly Nonlinear Photosensitive Materials. , 2011, , .		1
62	The accumulation of femtosecond laser radiation energy in crystals of lithium fluoride. , 2015, , .		1
63	Differentiation of types of single radiation defects in crystals through the properties of their fluorescence intensity trajectories. , 2015, , .		1
64	Red luminescence decay kinetics in Brazilian diamonds. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 74-77.	0.1	1
65	Investigation of single defects created in crystals by laser emission and hard radiation. Journal of Physics: Conference Series, 2017, 793, 012018.	0.3	1
66	The role of heat effects in the process of formation of color centers in LiF during filamentation of femtosecond laser pulses. EPJ Web of Conferences, 2019, 220, 02007.	0.1	1
67	The formation of surface periodic structures based on alkali halide crystals containing metal nanoparticles by ion implantation. AIP Conference Proceedings, 2021, , .	0.3	1
68	Luminescent properties of nanoparticles created by laser ablation of natural diamond single crystals. AIP Conference Proceedings, 2021, , .	0.3	1
69	Fluorescent carbon quantum dots formed from glucose solution by microplasma treatment. AIP Conference Proceedings, 2021, , .	0.3	1
70	The Memorizing Luminescent Crystalline Materials Based on Color Centers for Investigation the Highly Nonlinear Interaction of Light and Matter and for Other Applications. , 2017, , .		1
71	Luminescence of enrichment centers in yttrium-aluminum garnet crystals. Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika), 1984, 27, 73-76.	0.0	0
72	Spatial modulation phenomena in lasing media and saturable absorbers based on color centers crystals. , 1992, , .		0

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73	Nonlinear-absorbing medium for passive laser shutter in 0.8-1.08 μm spectral region based on color center $\alpha\text{-Al}_2\text{O}_3$ monocrystal. , 1992, 1839, 274.		0
74	<title>Decay of the spatial intensity modulation of luminescence in crystals excited by ultrashort pulses</title>. , 1996, , .		0
75	Space-temporal transient phenomena under coherent excitation of quantum systems in anisotropic crystals. , 1998, 3485, 116.		0
76	Luminescence, intrinsic photoeffect, and color-center conversion in anisotropic crystals under femtosecond laser excitation. Russian Physics Journal, 2000, 43, 193-204.	0.2	0
77	On a Spatially Selective Phototransformation Method for Investigation of Diffusion of Quantum Systems. Russian Physics Journal, 2003, 46, 984-990.	0.2	0
78	First Organophosphorus Nonlinear-Optical Media. Doklady Chemistry, 2004, 394, 34-35.	0.2	0
79	<title>Spatially periodical structures under femtosecond pulsed excitation of crystals</title>. , 2004, , .		0
80	Static multislit dispersive optical spectrometer based on complementary Golay sequences. Technical Physics Letters, 2008, 34, 453-455.	0.2	0
81	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.	0.2	0
82	Static multislit dispersive optical spectrometers for solid-state spectroscopy. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 105, 478-479.	0.2	0
83	Complementary Golay series in multislit dispersion optical spectroscopy. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2008, 75, 289.	0.2	0
84	On the influence of dispersion on the spatial distribution of the intensity of luminescence excited by opposing laser pulses. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2009, 106, 121-126.	0.2	0
85	Determining the orientation of single quantum systems by means of scanning fluorescence microscopy. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 36-38.	0.1	0
86	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.	1.5	0
87	Quantum trajectories of the photoluminescence of F 2 centers in a LiF crystal. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 89-92.	0.1	0
88	Stochastic model of a nanocluster of a smoky quartz composition. Glass Physics and Chemistry, 2016, 42, 480-483.	0.2	0
89	Transformation of the microstructure and luminescence characteristics of LiF films during annealing. Physics of the Solid State, 2016, 58, 1772-1776.	0.2	0
90	Multiple filamentation of femtosecond laser pulses. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 64-67.	0.1	0

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91	Spectral properties of a Nd ³⁺ -doped Li ₃ Ba ₂ Gd ₃ (MoO ₄) ₈ crystal. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 78-80.	0.1	0
92	Laser luminescent polarization microscopy of defects induced in lithium fluoride crystals by femtosecond pulses. Journal of Physics: Conference Series, 2018, 1115, 052028.	0.3	0
93	Table-Top Ion Implanter Based on Low-Voltage Vacuum Spark. , 2018, , .		0
94	Laser writing of full-color luminescent images in the volume of an optical carriers. , 2018, , .		0
95	The axial VUV radiation intensity distribution of a glow discharge and its application for creation luminescence centers in crystalline media. AIP Conference Proceedings, 2019, , .	0.3	0
96	Synthesis of a luminescent metamaterial layer in an alkali halide matrix by implanting metal ions emitted by a low-voltage vacuum spark. AIP Conference Proceedings, 2019, , .	0.3	0
97	Luminescence of single color centers created in LiF crystals at low dose of irradiation. AIP Conference Proceedings, 2021, , .	0.3	0
98	Luminescence of body tissues of <i>Epischura baikalensis</i> . AIP Conference Proceedings, 2021, , .	0.3	0
99	The conversion of color centers in lithium fluoride crystals at temperatures of 50–490°C. AIP Conference Proceedings, 2021, , .	0.3	0
100	Synthesis and optical properties of lithium nanoparticles in wide-gap dielectrics. AIP Conference Proceedings, 2021, , .	0.3	0
101	The theoretical substantiation of the spatial-modulation luminescent method for studying the orientations of quantum systems in crystals. Journal of Luminescence, 2021, 240, 118469.	1.5	0
102	Luminescence of zircons from highly diamondiferous kimberlites of Yakutia. AIP Conference Proceedings, 2021, , .	0.3	0
103	Polarization-interferometric method for measuring the pedestal of femtosecond radiation. AIP Conference Proceedings, 2021, , .	0.3	0
104	Characterization of fiber supercontinuum by chromatic scattering. , 2011, , .		0
105	<title>Laser for stimulation of self-propagating high-temperature synthesis reactions</title>. , 1996, , .		0
106	3D Fluorescent Carriers of Visual and Digital Information. , 2015, , .		0
107	The role of avalanche ionization in generation of defects in lithium fluoride crystals under the action of femtosecond laser pulses. , 2019, , .		0
108	Tunable laser radiation, nonlinear absorption, and anti-stokes luminescence of color centers in $\text{Li}^+\text{-Al}_2\text{O}_3$. Soviet Physics Journal (English Translation of <i>Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika</i>), 1987, 30, 842-846.	0.0	0