

# Evgeny

## List of Publications by Year in descending order

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51  
papers

740  
citations

567281

15  
h-index

580821

25  
g-index

51  
all docs

51  
docs citations

51  
times ranked

384  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of Photon Number Reflected by the Relativistic Flying Mirror. Physical Review Letters, 2009, 103, 235003.	7.8	101
2	Soft-X-Ray Harmonic Comb from Relativistic Electron Spikes. Physical Review Letters, 2012, 108, 135004.	7.8	66
3	Analysis of the 3s-3p and 3p-3d Transitions of S VII from Laser Plasma. Physica Scripta, 1983, 28, 496-500.	2.5	42
4	Reflection of few-cycle x-ray pulses by aperiodic multilayer structures. Journal of Optics, 2002, 4, 433-439.	1.5	28
5	Burst intensification by singularity emitting radiation in multi-stream flows. Scientific Reports, 2017, 7, 17968.	3.3	28
6	Broadband x-ray optical elements based on aperiodic multilayer structures. Quantum Electronics, 2000, 30, 428-434.	1.0	26
7	Reflection of atto-and femtosecond X-ray pulses from aperiodic multilayer mirror. JETP Letters, 2001, 74, 149-153.	1.4	26
8	High order harmonics from relativistic electron spikes. New Journal of Physics, 2014, 16, 093003.	2.9	26
9	Aperiodic multilayer structures in soft X-ray radiation optics. Quantum Electronics, 2012, 42, 143-152.	1.0	25
10	Aperiodic multilayer structures in soft X-ray optics. Physics-Uspekhi, 2015, 58, 1095-1105.	2.2	25
11	Debris-free pulsed xenon-jet soft X-ray radiation source driven by Nd-laser radiation. Quantum Electronics, 2002, 32, 149-154.	1.0	24
12	Conception of broadband stigmatic high-resolution spectrometers for the soft X-ray range. Quantum Electronics, 2015, 45, 371-376.	1.0	18
13	High-resolution stigmatic spectrograph for a wavelength range of 125–30 nm. Optics Express, 2018, 26, 19009.	3.4	18
14	Aperiodic x-ray multilayer mirrors and their application in plasma spectroscopy. Radiation Physics and Chemistry, 2006, 75, 1819-1823.	2.8	17
15	Doppler-shifted emission from helium ions accelerated in solar flares. Astrophysical Journal, 1990, 351, 317.	4.5	16
16	Fabrication and investigation of imaging normal-incidence multilayer mirrors with a narrow-band reflection in the range $\lambda \approx 4.5$ nm. Physica Scripta, 1993, 48, 516-520.	2.5	15
17	Charge exchange of multiply charged laser plasma ions with rare-gas jet atoms. Quantum Electronics, 2007, 37, 1060-1064.	1.0	15
18	Measurements of reflection spectra of soft X-ray multilayer mirrors using a broadband laser-plasma radiation source. Quantum Electronics, 2009, 39, 474-480.	1.0	15

#	ARTICLE	IF	CITATIONS
19	Additions to the 2p53s, 3p and 3d configurations in the neon-like ion Ca XI. Physica Scripta, 1988, 37, 742-745.	2.5	14
20	Broadband normal-incidence aperiodic multilayer mirrors for soft X-ray dispersive spectroscopy: theory and implementation. , 2002, 4782, 176.		14
21	Optimisation of a laser-plasma soft X-ray source excited in a pulsed xenon jet. Quantum Electronics, 2006, 36, 549-552.	1.0	14
22	Experimental studies of the high and low frequency electromagnetic radiation produced from nonlinear laser-plasma interactions. European Physical Journal D, 2009, 55, 465-474.	1.3	14
23	Measurements of the xenon density in a pulsed jet from absorption of monochromatic soft X-rays. Quantum Electronics, 2004, 34, 679-684.	1.0	13
24	Depth-graded multilayer mirrors for the hard x-ray spectral region: theory and inverse and direct problems. , 1999, , .		11
25	Charge exchange of multiply charged fluorine and lithium ions with Ne atoms. Quantum Electronics, 2010, 40, 545-550.	1.0	11
26	Stigmatic high-resolution high-throughput narrow-band diffraction spectrograph employing X-ray multilayer mirrors. Physica Scripta, 1993, 47, 495-500.	2.5	9
27	Aperiodic reflection diffraction gratings for soft X-ray radiation and their application. Quantum Electronics, 2018, 48, 916-929.	1.0	9
28	Broad-band stigmatic spectrograph for the soft x-ray range. Quantum Electronics, 1998, 28, 821-826.	1.0	8
29	Interaction of a pulsed gas target with Nd-laser radiation and laser-produced plasma. , 2002, 4781, 17.		8
30	Normal-incidence Sb/B4C multilayer mirrors for the 80 Å... <math>\lambda</math> <math>\times</math> 120 Å... wavelength range. Quantum Electronics, 2013, 43, 666-673.	1.0	8
31	Extreme ultraviolet diagnostics of preformed plasma in laser-driven proton acceleration experiments. Review of Scientific Instruments, 2006, 77, 123302.	1.3	7
32	Soft X-ray spectrometers based on aperiodic reflection gratings and their application. Physics-Usppekhi, 2021, 64, 495-514.	2.2	7
33	Design, fabrication, and study of wideband multilayer X-ray mirrors. Crystallography Reports, 2006, 51, 1075-1081.	0.6	6
34	Demonstration of Flying Mirror with Improved Efficiency. , 2009, , .		6
35	Spectroscopic characterization of novel multilayer mirrors intended for astronomical and laboratory applications. , 2009, , .		6
36	Laser Requirements for High-Order Harmonic Generation by Relativistic Plasma Singularities. Quantum Beam Science, 2018, 2, 7.	1.2	6

#	ARTICLE	IF	CITATIONS
37	<title>Characterization of imaging normal-incidence multilayer mirrors for the 40- to 300-Å... range by spectroscopic techniques using a laser-plasma radiation source</title>. , 1994, 2012, 209.		5
38	Interaction of laser plasmas with noble gases. Plasma Physics Reports, 2004, 30, 149-153.	0.9	5
39	Aperiodic normal-incidence antimony-based multilayer mirrors in the 8-13-nm spectral range. Quantum Electronics, 2011, 41, 75-80.	1.0	5
40	Broadband normal-incidence mirrors for a range of 111-138 Å... based on an a-periodic Mo/Be multilayer structure. Optical Materials Express, 2021, 11, 3038.	3.0	4
41	<title>Stigmatic broadband spectroscopic instruments below 300 Å</title>. , 1997, , .		3
42	Spectral characterisation of aperiodic normal-incidence Sb/B4C multilayer mirrors for the $\lambda < 124 \text{ Å}$ ... range. Quantum Electronics, 2018, 48, 189-196.	1.0	3
43	<title>Aspherical imaging multilayer mirrors with subarcsecond resolution for solar XUV telescopes</title>. , 1994, , .		2
44	Laser plasma source of polarized monochromatic beams in the XUV around multilayer mirrors. , 1995, , .		2
45	Stigmatic high-resolution high-throughput XUV spectroscopic instruments employing unconventional optical components. , 1995, , .		2
46	Method of Observing the Spot Where Full-Power Counter-Propagating Laser Pulses Collide in Plasma Media. Applied Physics Express, 2010, 3, 016101.	2.4	2
47	Conception of a single-component broadband high-resolution plane-VLS-grating monochromator. Applied Optics, 2022, 61, 5334.	1.8	2
48	<title>Spectroscopic characterization of soft x-ray multilayer optics using a broadband laser-plasma radiation source</title>. , 1997, , .		1
49	Design of Multilayer Mirrors for the Reflection of Sub-Femtosecond Pulses in the XUV Spectral Region. Springer Series in Chemical Physics, 2005, , 85-87.	0.2	1
50	Flat-field VLS spectrometers for laboratory applications. , 2017, , .		1
51	<title>Stigmatic high-resolution high-throughput narrowband diffraction spectrograph employing multilayer mirrors</title>. , 1994, 2012, 219.		0