

# Alexander V Vinogradov

## List of Publications by Year in descending order

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195  
docs citations

195  
times ranked

5656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1. Transverse-Momentum and Pseudorapidity Distributions of Charged Hadrons in	1.6	497
2	Collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.	2.9	400
3	Physical Review Letters, 2010, 105, 022002.	1.6	230
4	Squeezing via one-dimensional distribution of coherent states. Physical Review Letters, 1990, 64, 2771-2774.	2.9	213
5	Search for Dijet Resonances in 7 TeV Collisions at CMS. Physical Review Letters, 2010, 105, 211801.	2.9	126
6	X-ray and far uv multilayer mirrors: principles and possibilities. Applied Optics, 1977, 16, 89.	2.1	122
7	Single-shot extreme ultraviolet laser imaging of nanostructures with wavelength resolution. Optics Letters, 2008, 33, 518.	1.7	94
8	High-reflectivity multilayer mirrors for a vacuum-ultraviolet interval of 35–50 nm. Optics Letters, 1998, 23, 771.	1.7	80
9	Application of the parabolic wave equation to X-ray diffraction optics. Optics Communications, 1995, 118, 619-636.	1.0	70
10	Focusing of a tabletop soft-x-ray laser beam and laser ablation. Optics Letters, 1999, 24, 1714.	1.7	65
11	Performance and operation of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03010-T03010.	0.5	59
12	Alignment of the CMS silicon tracker during commissioning with cosmic rays. Journal of Instrumentation, 2010, 5, T03009-T03009.	0.5	59
13	Static Dipole Polarizability of Atoms and Ions in the Thomas-Fermi Model. Physica Scripta, 1979, 19, 275-282.	1.2	58
14	Nanoimaging with a compact extreme-ultraviolet laser. Optics Letters, 2005, 30, 2095.	1.7	58
15	Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. Journal of Instrumentation, 2010, 5, T03014-T03014.	0.5	57
16	Quantitative analysis of bone mineral content by x-ray microtomography. Physiological Measurement, 2003, 24, 165-178.	1.2	55
17	Performance of CMS muon reconstruction in cosmic-ray events. Journal of Instrumentation, 2010, 5, T03022-T03022.	0.5	52
18	Basic Formulae of XUV Multilayer Optics. Physica Scripta, 1987, T17, 137-145.	1.2	51

#	ARTICLE	IF	CITATIONS
19	First Measurement of Bose-Einstein Correlations in Proton-Proton Collisions at $\sqrt{s} = 2.36$ TeV at the LHC. Physical Review Letters, 2010, 105, 032001.	2.9	49
20	Reflection mode imaging with nanoscale resolution using a compact extreme ultraviolet laser. Optics Express, 2005, 13, 3983.	1.7	43
21	Efficient method for the determination of extreme-ultraviolet optical constants in reactive materials: application to scandium and titanium. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 298.	0.8	40
22	The observation of intercombination lines $1s3p^3P^1 \rightarrow 1s21S^0$ of multicharged He-like ions in laser-produced plasmas. Journal of Physics B: Atomic and Molecular Physics, 1977, 10, 3387-3394.	1.6	39
23	Measurement of the charge ratio of atmospheric muons with the CMS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 83-104.	1.5	38
24	Amplitude squeezed and number-phase intelligent states via coherent state superposition. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 160, 506-510.	0.9	37
25	Schwarzschild soft-x-ray microscope for imaging of nonradiating objects. Optics Letters, 1995, 20, 2451.	1.7	37
26	Commissioning of the CMS experiment and the cosmic run at four tesla. Journal of Instrumentation, 2010, 5, T03001-T03001.	0.5	37
27	Performance of the CMS hadron calorimeter with cosmic ray muons and LHC beam data. Journal of Instrumentation, 2010, 5, T03012-T03012.	0.5	36
28	Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays. Journal of Instrumentation, 2010, 5, T03021-T03021.	0.5	36
29	Commissioning and performance of the CMS pixel tracker with cosmic ray muons. Journal of Instrumentation, 2010, 5, T03007-T03007.	0.5	35
30	Determination of XUV optical constants by reflectometry using a high-repetition rate 46.9-nm laser. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 1495-1501.	1.9	34
31	Time reconstruction and performance of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03011-T03011.	0.5	34
32	Laser-electron generator for X-ray applications in science and technology. Laser and Particle Beams, 2008, 26, 489-495.	0.4	31
33	Density-Dependent Lines of One- and Two-Electron Ions in Diagnostics of Laboratory Plasma. II. Intensity Line Ratios of Hydrogenlike, Heliumlike and Oxygenlike Multicharged Ions. Physica Scripta, 1978, 18, 78-86.	1.2	30
34	Vibrational state shaping for selective laser chemistry. Chemical Physics Letters, 1993, 213, 368-372.	1.2	28
35	Soft-x-ray laser interferometry of a pinch discharge using a tabletop laser. Physical Review E, 1999, 60, 911-917.	0.8	28
36	Inelastic transitions between close atomic levels induced by electrons and protons. Journal of Physics B: Atomic and Molecular Physics, 1976, 9, 2859-2867.	1.6	27

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37	Gaussian coherent state expansion of the squeezed states. <i>Optics Communications</i> , 1990, 80, 155-158.	1.0	27
38	Synthesis and measurement of normal incidence X-ray multilayer mirrors optimized for a photon energy of 390 eV. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994, 345, 594-603.	0.7	25
39	Performance study of the CMS barrel resistive plate chambers with cosmic rays. <i>Journal of Instrumentation</i> , 2010, 5, T03017-T03017.	0.5	25
40	Measurement of the muon stopping power in lead tungstate. <i>Journal of Instrumentation</i> , 2010, 5, P03007-P03007.	0.5	25
41	Commissioning and performance of the CMS silicon strip tracker with cosmic ray muons. <i>Journal of Instrumentation</i> , 2010, 5, T03008-T03008.	0.5	25
42	Density-dependent Lines of One- and Two-electron Ions in Diagnostics of Laboratory Plasma. I. The rates of collision relaxation of excited levels. <i>Physica Scripta</i> , 1977, 16, 123-128.	1.2	24
43	Phonon squeezing in chirped pulse pump and probe experiments. <i>Optics Communications</i> , 1990, 76, 30-33.	1.0	24
44	Performance of the CMS drift tube chambers with cosmic rays. <i>Journal of Instrumentation</i> , 2010, 5, T03015-T03015.	0.5	24
45	Performance of the CMS Level-1 trigger during commissioning with cosmic ray muons and LHC beams. <i>Journal of Instrumentation</i> , 2010, 5, T03002-T03002.	0.5	24
46	Optical features of a LiF crystal soft x-ray imaging detector irradiated by free electron laser pulses. <i>Optics Express</i> , 2012, 20, 3424.	1.7	24
47	<title>Modeling of fast capillary discharge for collisionally excited soft x-ray lasers: comparison with experiments</title>. , 1994, 2012, 99.		23
48	Alignment of the CMS muon system with cosmic-ray and beam-halo muons. <i>Journal of Instrumentation</i> , 2010, 5, T03020-T03020.	0.5	23
49	Anomalous intensity ratios of the resonance to intercombination lines of He-like ions in Nd- and CO <sub>2</sub> -laser-produced plasmas. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1979, 12, 213-220.	1.6	21
50	Janszky, Adam, and Vinogradov reply. <i>Physical Review Letters</i> , 1992, 68, 3816-3816.	2.9	21
51	Si normal incidence mirrors for a VUV interval of 35-50 nm. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 448, 147-151.	0.7	20
52	Multilayer X-ray optics. <i>Quantum Electronics</i> , 2002, 32, 1113-1121.	0.3	20
53	Effect of polymer coating on leakage losses in Bragg fibers. <i>Optics Letters</i> , 2007, 32, 1202.	1.7	20
54	Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data. <i>Journal of Instrumentation</i> , 2010, 5, T03013-T03013.	0.5	20

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55	Performance of the CMS cathode strip chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03018-T03018.	0.5	20
56	Analytical theory of zone plate efficiency. Physical Review E, 1994, 49, 5797-5803.	0.8	19
57	High throughput and resolution compact spectrograph for the 124-250 Å range based on MoSi <sub>2</sub> -Si sliced multilayer grating. Optics Communications, 1994, 109, 1-4.	1.0	19
58	Repetitively pulsed X-ray laser operating on the 3p-3s transition of the Ne-like argon in a capillary discharge. Quantum Electronics, 2003, 33, 7-17.	0.3	19
59	X-ray Schwarzschild objective for the carbon window ( $\lambda \sim 45$ nm). Optics Letters, 2009, 34, 2930.	1.7	19
60	Aligning the CMS muon chambers with the muon alignment system during an extended cosmic ray run. Journal of Instrumentation, 2010, 5, T03019-T03019.	0.5	19
61	Performance of the CMS drift-tube chamber local trigger with cosmic rays. Journal of Instrumentation, 2010, 5, T03003-T03003.	0.5	19
62	CMS data processing workflows during an extended cosmic ray run. Journal of Instrumentation, 2010, 5, T03006-T03006.	0.5	19
63	Soft X-ray submicron imaging experiments with nanosecond exposure. Optics Communications, 1993, 102, 401-406.	1.0	18
64	Fine synchronization of the CMS muon drift-tube local trigger using cosmic rays. Journal of Instrumentation, 2010, 5, T03004-T03004.	0.5	18
65	Soft x-ray free-electron laser imaging by LiF crystal and film detectors over a wide range of fluences. Applied Optics, 2013, 52, 509.	0.9	18
66	Optical properties of sliced multilayer gratings. Optics Communications, 2002, 210, 179-186.	1.0	17
67	X-ray microscopy in the carbon window region. Quantum Electronics, 2004, 34, 691-692.	0.3	17
68	Calibration of the CMS drift tube chambers and measurement of the drift velocity with cosmic rays. Journal of Instrumentation, 2010, 5, T03016-T03016.	0.5	17
69	Short-Period Multilayer X-ray Mirrors for Water and Carbon Windows Wavelengths. Journal of Nanoscience and Nanotechnology, 2019, 19, 518-531.	0.9	17
70	Structure, thermal stability, and reflectivity of Sc/Si and Sc/W/Si/W multilayer x-ray mirrors. , 2001, 4505, 230.		16
71	SkyLab 3600 groove/mm replica grating with a scandium-silicon multilayer coating and high normal-incidence efficiency at 38-nm wavelength. Applied Optics, 2002, 41, 1846.	2.1	16
72	Extremely compact soft X-ray lasers based on capillary discharges. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 507, 515-522.	0.7	16

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73	Design study of compact Laser-Electron X-ray Generator for material and life sciences applications. Journal of Instrumentation, 2009, 4, P07017-P07017.	0.5	16
74	Thomson linac-based X-ray generator: a primer for theory and design. Laser and Particle Beams, 2016, 34, 637-644.	0.4	16
75	Competition between geometrical and dynamical squeezing during a Franck-Condon transition. Physical Review A, 1994, 50, 732-740.	1.0	15
76	Influence of phonon squeezing on the transient spectrum. Spectrochimica Acta Part A: Molecular Spectroscopy, 1992, 48, 31-39.	0.1	14
77	On wide-band mirrors for soft X-ray range. Optics Communications, 1983, 47, 361-363.	1.0	13
78	Multilayer x-ray mirrors. Journal of Russian Laser Research, 1995, 16, 343-385.	0.3	13
79	Scalar theory of low-contrast Bragg waveguides. Quantum Electronics, 2007, 37, 873-880.	0.3	13
80	Soft X-ray imaging of thick carbon-based materials using the normal incidence multilayer optics. Micron, 2010, 41, 722-728.	1.1	13
81	Fabrication of x-ray zone plates by surface-plasma chemical vapor deposition. Applied Optics, 2007, 46, 5964.	2.1	12
82	Coherent scattering from tilted objects. Journal of Optics (United Kingdom), 2014, 16, 035703.	1.0	12
83	Diffraction phenomena inside thick Fresnel zone plates. Radio Science, 1996, 31, 1815-1822.	0.8	11
84	Soft X-ray multilayer mirrors based on depleted uranium. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 517, 372-377.	0.7	11
85	Cherenkov glue in opaque nuclear medium. Nuclear Physics A, 2009, 826, 190-197.	0.6	11
86	On the Problem of Extreme UV and X-Ray Lasers. Advances in Atomic and Molecular Physics, 1985, , 327-345.	2.0	10
87	Generation and application of a high-average-power polarized soft-x-ray laser beam. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 1041.	0.9	10
88	Entangled vibrational states in polyatomic molecules. Physical Review A, 1996, 54, 5110-5117.	1.0	9
89	Investigation of a steering mirror for the soft X-ray region. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 261, 101-102.	0.7	8
90	On the reflectivity of surfaces with thin transition or contaminated layers. Journal of Russian Laser Research, 2000, 21, 62-68.	0.3	8

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91	Carbon window soft x-ray imaging using multilayer optics. , 2005, , .		8
92	Mechanisms of radiation damage to Sc/Si multilayer mirrors under EUV laser irradiation. Journal Physics D: Applied Physics, 2009, 42, 125407.	1.3	8
93	Optical unit of Laser-Electron X-ray Generator designed for medical applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, S32-S35.	0.7	8
94	Soft X-ray microscopy in the spectral region of "carbon window" with the use of multilayer optics and a laser-plasma source. Journal of Experimental and Theoretical Physics, 2009, 109, 872-884.	0.2	8
95	Submicrosecond regular and chaotic nonlinear dynamics in a pulsed picosecond Nd:YAG laser with millisecond pumping. Applied Optics, 2009, 48, 2267.	2.1	8
96	Effect of working gas pressure on interlayer mixing in magnetron-deposited Mo/Si multilayers. Optical Engineering, 2013, 52, 095104.	0.5	8
97	X-ray investigations of supersmooth surfaces. , 1995, 2453, 141.		7
98	An approach to the theory of X-ray multilayers with graded period. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 448, 142-146.	0.7	7
99	<title>X-ray study of surfaces and interfaces</title>. , 2001, 4449, 253.		7
100	Free Space Strange and Unipolar EM Pulses: Yes or No?. Foundations, 2021, 1, 169-174.	0.4	7
101	Measurements of electron density in laser-produced plasmas from the XUV spectra of oxygen-like ions. Journal Physics D: Applied Physics, 1978, 11, 2305-2311.	1.3	6
102	Synthesis and measurement of Os <sup>i</sup> -Si multilayer mirrors optimized for the wavelength 380 Å.... Optics Communications, 1996, 125, 13-17.	1.0	6
103	Application of a refractive bubbles-in-capillary x-ray lens to Xpinch experiments. Review of Scientific Instruments, 2003, 74, 2247-2250.	0.6	6
104	Development of an ultrahigh-resolution diffraction grating for soft x-rays. , 2007, , .		6
105	Extreme ultraviolet spectroscopy diagnostics of low-temperature plasmas based on a sliced multilayer grating and glass capillary optics. Review of Scientific Instruments, 2008, 79, 10F542.	0.6	6
106	<title>Optical properties of 3D transition metals in the spectral interval of interest for discharge-pumped XUV lasers</title>. , 1997, , .		5
107	Capillary discharge tabletop soft X-ray lasers reach new wavelengths and applications. Comptes Rendus Physique, 2000, 1, 1065-1081.	0.1	5
108	Two-channel X-ray reflectometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 448, 184-187.	0.7	5

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109	Algorithm for calculating the optimal parameters of multilayer aperiodic mirrors for soft X-rays. Quantum Electronics, 2005, 35, 195-199.	0.3	5
110	Experimental research of stability of thin films on the basis of depleted uranium as reflecting coating for wavelength of 4.5nm. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 575, 248-250.	0.7	5
111	Zone plates for hard X-rays fabricated with the SPCVD technology. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 603, 66-68.	0.7	5
112	Commissioning of the CMS High-Level Trigger with cosmic rays. Journal of Instrumentation, 2010, 5, T03005-T03005.	0.5	5
113	Study of various photomultiplier tubes with muon beams and Čerenkov light produced in electron showers. Journal of Instrumentation, 2010, 5, P06002-P06002.	0.5	5
114	Submicron scale image observation with a grazing incidence reflection-type single-shot soft X-ray microscope. Japanese Journal of Applied Physics, 2014, 53, 080302.	0.8	5
115	Determination of the roughness of concave laser mirrors. Quantum Electronics, 1997, 27, 824-829.	0.3	4
116	Theory of x-ray multilayers with graded period. , 1999, , .		4
117	Application of the Statistical Dynamical Theory of X-Ray Diffraction to Calculation of the HOPG Echelon-Monochromator Parameters. Physica Status Solidi A, 2000, 179, 311-317.	1.7	4
118	Laser“Electron X-Ray Source for Medical Applications. Instruments and Experimental Techniques, 2002, 45, 718-723.	0.1	4
119	Determination of the parameters of multilayer nanostructures using two-wave X-ray reflectometry. Semiconductors, 2003, 37, 675-680.	0.2	4
120	Determination of the optical constants of amorphous carbon in the EUV spectral region 40-450 eV. , 2006, 6317, 298.		4
121	Relativistic Thomson scattering in compact linacs and storage rings: a route to quasi-monochromatic tunable laboratory-scale x-ray sources. Proceedings of SPIE, 2007, , .	0.8	4
122	On the explicit parametric description of waves in periodic media. Computational Mathematics and Mathematical Physics, 2009, 49, 1069-1079.	0.2	4
123	X-ray reduction imaging of inclined reflective masks at critical angles. Quantum Electronics, 2016, 46, 839-844.	0.3	4
124	Space-Time Coupling: Current Concept and Two Examples from Ultrafast Optics Studied Using Exact Solution of EM Equations. Symmetry, 2021, 13, 529.	1.1	4
125	Thomas-fermi approach to the theory of optical constants in the XUV range. Applied Physics B, Photophysics and Laser Chemistry, 1990, 50, 213-220.	1.5	3
126	Investigation of interfaces with grazing incidence neutron radiation. Physica B: Condensed Matter, 1991, 174, 174-176.	1.3	3



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127	Gratings and zone plates based on sliced multilayer structures. , 1995, , .		3
128	New methods of X-ray reflectometry of solids and solid thin films. Journal of Russian Laser Research, 1999, 20, 136-151.	0.3	3
129	Focusing the beam of a compact, repetitively pulsed x-ray laser to study the interaction of radiation with metallic targets and x-ray reflectometry. Quantum Electronics, 2000, 30, 328-332.	0.3	3
130	Reflection from surfaces with a thin overlayer. Optics Letters, 2000, 25, 998.	1.7	3
131	Advances in short-wavelength x-ray multilayer optics: toward high-throughput multimirror systems for the wavelengths <math>\leq 10</math> nm. Proceedings of SPIE, 2007, , .	0.8	3
132	High spatial resolution full-field microscopy using a desktop-size soft x-ray laser. Proceedings of SPIE, 2007, , .	0.8	3
133	Simulation of grazing-incidence coherent imaging. Quantum Electronics, 2012, 42, 140-142.	0.3	3
134	Design study of Thomson Laser-Electron X-ray Generator (LEX) for Millisecond Angiography. Journal of Physics: Conference Series, 2017, 784, 012002.	0.3	3
135	Coulomb-Born and unitarised Coulomb-Born cross sections and rates of inelastic transitions in ion-ion collisions. Journal of Physics B: Atomic and Molecular Physics, 1978, 11, 2899-2905.	1.6	2
136	Study of polarized properties of multilayer x-ray mirrors. Review of Scientific Instruments, 1989, 60, 2124-2125.	0.6	2
137	Grazing-incidence cylindrical mirror with multiple reflection for the soft X-ray spectral range. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 308, 340-342.	0.7	2
138	<title>Reflectivity analysis of whispering-gallery mirrors</title>. , 1992, 1551, 155.		2
139	A single-molecule interferometer for measurement of femtosecond laser pulse duration. Optics Communications, 1996, 127, 223-229.	1.0	2
140	Macroscopic Approach to Quantum Optics. Fortschritte Der Physik, 2000, 48, 717-746.	1.5	2
141	Laser-electron x-ray generator. Journal of Surface Investigation, 2007, 1, 435-442.	0.1	2
142	Fundamental losses in planar Bragg waveguides. Journal of Russian Laser Research, 2007, 28, 576-593.	0.3	2
143	Model problem of Bragg fiber design. , 2008, , .		2
144	High resolution full-field imaging of nanostructures using compact extreme ultraviolet lasers. Journal of Physics: Conference Series, 2009, 186, 012026.	0.3	2

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145	Beam propagation through straight and bent Bragg waveguides: Numerical simulation. , 2009, , .		2
146	Sliced linear zone plates for hard X-ray radiation. Technical Physics, 2012, 57, 1283-1288.	0.2	2
147	On angiography with a Thomson laser-electron X-ray generator. Quantum Electronics, 2017, 47, 75-78.	0.3	2
148	Applications of high repetition rate tabletop soft X-ray lasers become a reality in several fields. European Physical Journal Special Topics, 2001, 11, Pr2-459-Pr2-468.	0.2	2
149	Influence of the electron beam emittance on the polarization of a laser-electron x-ray generator. Physical Review Accelerators and Beams, 2016, 19, .	0.6	2
150	XUV CAVITY AND PUMPING OPTICS. Journal De Physique Colloque, 1986, 47, C6-287-C6-297.	0.2	2
151	Study of polarization properties of multilayer X-ray mirrors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 282, 551-552.	0.7	1
152	Synthesis and measurement of Os-Si multilayer mirrors optimized for the wavelength 380 Å, , 1995, , .		1
153	XUV laser reflectometry for optical constant determination. , 1999, 3776, 224.		1
154	Imaging of filtration channels in track membranes by the Schwarzschild X-ray microscope. Doklady Physics, 2000, 45, 248-251.	0.2	1
155	Application of the parabolic wave equation to the simulation of refractive x-ray multilenses. , 2002, , .		1
156	Structural transformations in Sc/Si multilayers irradiated by EUV lasers. Proceedings of SPIE, 2007, , .	0.8	1
157	On the waveguide leaky losses induced by the outer cladding. Journal of Optics, 2008, 10, 085003.	1.5	1
158	Graded multilayer mirrors for the carbon window Schwarzschild objective. , 2008, , .		1
159	Advances in full field microscopy with table-top soft x-ray lasers. Proceedings of SPIE, 2009, , .	0.8	1
160	Theoretical study of coherent reflection imaging at grazing angles. , 2011, , .		1
161	Characterizing the luminescence properties of LiF crystal imaging detectors using femtosecond soft X-ray monochromatic free electron laser radiation. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2239-2242.	0.8	1
162	Optical Transforms Related to Coherent Imaging of Inclined Objects. Springer Proceedings in Physics, 2014, , 19-27.	0.1	1

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163	Round-Trip-Time Nonlinear Dynamics of Electro-Optically-Controlled Solid State Lasers. Journal of Russian Laser Research, 2014, 35, 492-500.	0.3	1
164	Simulation of Coherent X-Ray Imaging of Tilted Objects in the Fourier Space. Journal of Russian Laser Research, 2015, 36, 167-174.	0.3	1
165	2D simulation of coherent images of tilted objects. Bulletin of the Lebedev Physics Institute, 2016, 43, 115-120.	0.1	1
166	Formation of periodic relief at Sc/Si multilayer surface under EUV laser irradiation. , 2017, , .		1
167	On the Thomson cross section of light scattering by a moving particle. Bulletin of the Lebedev Physics Institute, 2017, 44, 123-126.	0.1	1
168	Quantitative analysis of patient radiation dose in interventional coronary angiography with a monochromatic source. Biomedical Physics and Engineering Express, 2017, 3, 057001.	0.6	1
169	CrB <sub>2</sub> diffusion barriers for Mo/Si multilayer structures. Materials Research Express, 2019, 6, 056413.	0.8	1
170	Lensless Reflection Imaging of Obliquely Illuminated Objects I: Choosing a Domain for Phase Retrieval and Ptychography. Symmetry, 2021, 13, 1439.	1.1	1
171	The prospects of reflectometry and ellipsometry with Colorado State University tabletop XUV laser. European Physical Journal Special Topics, 2001, 11, Pr2-451-Pr2-457.	0.2	1
172	Classical resonance absorption in atoms and the theory of optical constants in XUV range. Physica Scripta, 1990, 41, 864-866.	1.2	0
173	Concentrators of soft x-rays. Journal of Russian Laser Research, 1995, 16, 535-550.	0.3	0
174	Numerical simulation of x-ray zone plates with high aspect ratio. AIP Conference Proceedings, 1995, , .	0.3	0
175	Application of the nonequilibrium diagram technique to strongly driven atomic systems. Journal of Russian Laser Research, 1996, 17, 551-578.	0.3	0
176	Two-wave x-ray methods for characterization of supersmooth substrates and thin films. , 1999, , .		0
177	<title>Semitransparent monochromators for x-ray imaging based on highly oriented pyrolytic graphite (HOPG)</title>., 2001, , .		0
178	X-ray microscopy of track membranes and biological objects in the soft-and hard-wavelength ranges. Crystallography Reports, 2001, 46, 596-600.	0.1	0
179	Wavefront transformation and the modulation transfer function of x-ray multilayer mirrors. Journal of Optics, 2002, 4, 233-236.	1.5	0
180	A Source of Soft X-Rays Based on a Radial Magnetron Gun. Instruments and Experimental Techniques, 2003, 46, 697-701.	0.1	0

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181	The use of perfect crystals in high-resolution X-ray spectroscopy. JETP Letters, 2003, 78, 624-626.	0.4	0
182	Recent results in capillary discharge soft x-ray laser research. , 2003, 5197, 174.		0
183	Analytical Approach to Bragg Fiber Design: Scalar Approximation. , 2007, , .		0
184	Quasi CW mode, regular and chaotic dynamics in picosecond Nd:YAG laser with millisecond pumping under optoelectronic feedback control. , 2007, , .		0
185	Structure of the core-cladding interface and radiation losses in hollow planar Bragg waveguides. Quantum Electronics, 2008, 38, 1039-1044.	0.3	0
186	The influence of working gas pressure on interlayer mixing in magnetron-deposited Mo/Si multilayers. , 2011, , .		0
187	X-ray radiation of laser plasma of carbon nanotubes. Bulletin of the Lebedev Physics Institute, 2011, 38, 172-176.	0.1	0
188	Evaluation of laser-electron x-ray source and related optics for x-ray diffractometry and topography. Proceedings of SPIE, 2017, , .	0.8	0
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