

# Sergey Uryupin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2071955/publications.pdf>

Version: 2024-02-01

94  
papers

650  
citations

687363

13  
h-index

713466

21  
g-index

94  
all docs

94  
docs citations

94  
times ranked

272  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion-acoustic turbulence and anomalous transport. <i>Physics Reports</i> , 1988, 164, 119-215.	25.6	93
2	Nanoscale boiling during single-shot femtosecond laser ablation of thin gold films. <i>JETP Letters</i> , 2015, 101, 394-397.	1.4	33
3	Generation of low-frequency radiation by dense hot plasma under pondermotive action of a short laser pulse. <i>Journal of Experimental and Theoretical Physics</i> , 2012, 114, 878-891.	0.9	31
4	Anomalous Transmission of an Ultrashort Ionizing Laser Pulse through a Thin Foil. <i>Physical Review Letters</i> , 2003, 91, 085005.	7.8	26
5	On the growth rate of aperiodic instability in plasma with an anisotropic bi-Maxwellian electron velocity distribution. <i>Plasma Physics Reports</i> , 2014, 40, 393-403.	0.9	21
6	Radiation reflection by a plasma with electron temperature anisotropy. <i>European Physical Journal D</i> , 2003, 22, 109-116.	1.3	18
7	Amplification of electromagnetic radiation by a nonequilibrium plasma unstable against the development of Weibel instability. <i>Journal of Experimental and Theoretical Physics</i> , 2010, 111, 670-683.	0.9	18
8	Title is missing!. <i>European Physical Journal D</i> , 2002, 19, 349-353.	1.3	17
9	Weibel instability associated with inverse bremsstrahlung absorption of intense electromagnetic radiation. <i>Journal of Experimental and Theoretical Physics</i> , 1997, 84, 687-693.	0.9	16
10	Generation of surface waves and low-frequency radiation under exposure of a conductor to a laser pulse focused by a cylindrical lens. <i>Quantum Electronics</i> , 2014, 44, 866-872.	1.0	16
11	Inverse bremsstrahlung in a plasma with electron temperature anisotropy. <i>Physics of Plasmas</i> , 2001, 8, 4745-4752.	1.9	15
12	Generation of nonlinear currents and low-frequency radiation upon interaction of a laser pulse with a metal. <i>Quantum Electronics</i> , 2013, 43, 1048-1054.	1.0	14
13	Free-electron mechanisms of low-frequency radiation generation on metal surfaces. <i>Optics Letters</i> , 2016, 41, 4975.	3.3	14
14	Excitation of surface waves by a short laser pulse in a conductor. <i>Quantum Electronics</i> , 2013, 43, 1132-1138.	1.0	13
15	Laser pulse reflection by anisotropic plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2306-2308.	2.1	11
16	Reflection of electromagnetic radiation from plasma with an anisotropic electron velocity distribution. <i>Plasma Physics Reports</i> , 2013, 39, 674-683.	0.9	11
17	Thermal regime of laser ablation of metals by ultrashort pulses of low fluence. <i>Journal of Russian Laser Research</i> , 1999, 20, 189-201.	0.6	10
18	Optical rectification of ultrashort laser pulses at the surface of conducting media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2593.	2.1	10

#	ARTICLE	IF	CITATIONS
19	Tunnel ionization and magnetic field generation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 255, 307-310.	2.1	9
20	Radiation resonant transmission and reflection by a thin layer of an anisotropic plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 345, 205-210.	2.1	9
21	Generation of low-frequency radiation under focused laser irradiation of a conductor. Technical Physics, 2014, 59, 892-898.	0.7	9
22	Radiation absorption and reflection by a plasma with cold and hot electrons. Physics of Plasmas, 2003, 10, 3344-3350.	1.9	8
23	Optical properties of a plasma produced by the tunneling ionization of atoms of a matter in the field of a circularly polarized wave. Plasma Physics Reports, 2006, 32, 423-428.	0.9	8
24	Determination of frequencies of electron-electron collisions in aluminum heated by a femtosecond laser pulse. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2013, 114, 384-389.	0.6	8
25	Prompt increase of ultrashort laser pulse transmission through thin silver films. Applied Physics Letters, 2018, 112, 113104.	3.3	8
26	Amplification of spontaneous magnetic fields due to inverse bremsstrahlung absorption of high frequency radiation. Physics of Plasmas, 2000, 7, 4273.	1.9	7
27	Optical properties of metals with inhomogeneously heated electrons. Journal of Russian Laser Research, 2008, 29, 123-132.	0.6	7
28	Heating of a metal nanofilm during femtosecond laser pulse absorption. Quantum Electronics, 2014, 44, 859-865.	1.0	7
29	Longitudinal electron waves in plasma formed at multi-photon ionization of atoms by a short laser pulse. Contributions To Plasma Physics, 2018, 58, 276-281.	1.1	7
30	Femtosecond laser induced nanostructuring of aluminum films of variable thickness. Laser Physics Letters, 2018, 15, 015901.	1.4	7
31	Generation of a magnetic field in a weakly inhomogeneous plasma interacting with a short laser pulse. JETP Letters, 2012, 95, 626-630.	1.4	6
32	Amplification of short pulse passing through anisotropic plasma layer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 747-751.	2.1	6
33	Generation of surface waves by a drag current generated by a focused femtosecond pulse. JETP Letters, 2016, 103, 499-503.	1.4	6
34	Generation of Low-Frequency Radiation Under the Laser Pulse Effect on a Plasma in a Magnetic Field. Journal of Russian Laser Research, 2019, 40, 467-473.	0.6	6
35	Impact of electron collisions on the skin effect in a photoionized inert gas plasma. Physical Review A, 2020, 102, .	2.5	6
36	Competition of quasi-cylindrical and surface waves excited at the femtosecond pulse effect on the metal. Optics Letters, 2021, 46, 2521.	3.3	6

#	ARTICLE	IF	CITATIONS
37	Nonlinear properties of a weakly collisional plasma at low radiation intensities. Journal of Experimental and Theoretical Physics, 1998, 86, 710-716.	0.9	5
38	Electromagnetic radiation from a plasma slab during the development of Weibel instability. Plasma Physics Reports, 2012, 38, 57-66.	0.9	5
39	Enhanced transmission of the femtosecond laser pulse through metallic nanofilm. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 975-977.	2.1	5
40	Leaky unstable modes and electromagnetic radiation amplification by an anisotropic plasma slab. Plasma Physics Reports, 2015, 41, 744-757.	0.9	5
41	Reflection of a probe pulse and thermal emission of electrons produced by an aluminum film heated by a femtosecond laser pulse. Journal of Experimental and Theoretical Physics, 2015, 120, 937-945.	0.9	5
42	Waves in plasma formed by above-threshold ionization of gas atoms. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2897-2902.	2.1	5
43	Effects of metal heating on the spectral composition and generation efficiency of terahertz radiation. Laser Physics Letters, 2019, 16, 076002.	1.4	5
44	Collective modes of plasma formed by multiphoton ionization of rarefied gas. Plasma Sources Science and Technology, 2020, 29, 035005.	3.1	5
45	Kinetic approach to THz radiation generation at femtosecond laser pulse ponderomotive effect on plasma in magnetic field. Physical Review E, 2021, 103, 033205.	2.1	5
46	Title is missing!. Journal of Russian Laser Research, 2000, 21, 505-514.	0.6	4
47	Third harmonic generation by hot electrons in metals. Journal of Russian Laser Research, 2008, 29, 219-226.	0.6	4
48	Interaction of electromagnetic radiation with a plasma with fully developed ion acoustic turbulence. Plasma Physics Reports, 2009, 35, 1036-1043.	0.9	4
49	Reflection and absorption of HF radiation by a turbulent plasma. Technical Physics, 2009, 54, 985-989.	0.7	4
50	Potential surface waves in anisotropic plasma. Plasma Physics Reports, 2016, 42, 566-575.	0.9	4
51	High-frequency waves in plasma formed as a result of tunnel ionization of atoms by circularly polarized radiation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2350-2354.	2.1	4
52	Electron modes of plasma generated at tunnel ionization of atoms by a circularly polarized radiation. Physics of Plasmas, 2017, 24, 103118.	1.9	4
53	Generation of terahertz radiation in dielectric-metal structure irradiated by a femtosecond laser pulse. Optics Letters, 2020, 45, 41.	3.3	4
54	On the velocity of a kink moving under the action of current. Physics of the Solid State, 2001, 43, 1-8.	0.6	3

#	ARTICLE	IF	CITATIONS
55	Magnetic field generation in a plasma produced through atomic ionization by circularly polarized radiation. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 99, 727-732.	0.9	3
56	Anomalies in the Absorption and Reflection of a High-Power Ultrashort Laser Pulse by a Plasma with a Solid-State Density. <i>Journal of Russian Laser Research</i> , 2004, 25, 397-411.	0.6	3
57	Action of an electromagnetic pulse on a plasma with a high level of ion-acoustic turbulence. Field diffusion and subdiffusion. <i>Plasma Physics Reports</i> , 2013, 39, 745-754.	0.9	3
58	Generation of low-frequency nonlinear currents in plasma by an ultrashort pulse of high-frequency radiation. <i>Plasma Physics Reports</i> , 2015, 41, 553-561.	0.9	3
59	Structure of low-frequency fields generated by the ponderomotive force arising at the interaction of an ultrashort focused laser pulse with the conductor. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 2612.	2.1	3
60	Enhancement of terahertz fields generation on a silver surface under the effect of short-wavelength femtosecond pulses. <i>Laser Physics Letters</i> , 2022, 19, 076001.	1.4	3
61	Anomalous heat transfer in magnetoactive non-isothermal plasmas. <i>Physica Scripta</i> , 1990, 42, 239-247.	2.5	2
62	Cherenkov trapping of waves and discreteness of $\delta$ -kink motion in a long Josephson junction. <i>JETP Letters</i> , 1999, 69, 348-352.	1.4	2
63	Dynamic polarizability and the theory of the ion-acoustic turbulence in a plasma containing ions of two species. <i>Journal of Experimental and Theoretical Physics</i> , 2001, 93, 1035-1051.	0.9	2
64	Properties of a fast Josephson vortex. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 98, 594-604.	0.9	2
65	On a promising way of determining effective electron-ion collision frequencies in metals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 359, 153-156.	2.1	2
66	Anomalous heat flux inhibition under high frequency radiation pulse absorption in electron-ion collisions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1990-1993.	2.1	2
67	Nonlinear currents generated in plasma by a radiation pulse with a frequency exceeding the electron plasma frequency. <i>Plasma Physics Reports</i> , 2016, 42, 870-875.	0.9	2
68	Penetration of probe field in heated plasma. <i>Technical Physics</i> , 2017, 62, 862-866.	0.7	2
69	Excitation of plasma waves by nonlinear currents induced by a high-frequency electromagnetic pulse. <i>Plasma Physics Reports</i> , 2017, 43, 315-323.	0.9	2
70	Penetration of Electromagnetic Radiation in Plasma Produced by Multiphoton Ionization. <i>Journal of Russian Laser Research</i> , 2019, 40, 474-485.	0.6	2
71	THz radiation generation in semiconductor-metal nanostructure exposed to femtosecond laser pulse of focused radiation. <i>Journal of Applied Physics</i> , 2020, 128, 203102.	2.5	2
72	Reflection and absorption of electromagnetic radiation by inhomogeneous photoionized plasma, produced by multiphoton ionization of inert gas atoms. <i>Physical Review E</i> , 2021, 104, 045203.	2.1	2

#	ARTICLE	IF	CITATIONS
73	Generation of quasi-cylindrical waves during inhomogeneous heating of a metal by a focused laser pulse. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 433, 128026.	2.1	2
74	Suppression of nonlocal thermal conductivity in a turbulent plasma. <i>JETP Letters</i> , 1996, 63, 611-614.	1.4	1
75	Emission of radiation from a long Josephson junction in a thin film. <i>Journal of Experimental and Theoretical Physics</i> , 1999, 88, 788-799.	0.9	1
76	Fast laser heating of electrons as a source of ion-acoustic oscillations. <i>Journal of Russian Laser Research</i> , 2000, 21, 34-45.	0.6	1
77	FREE AND INDUCED VORTICES MOTION IN THE JOSEPHSON JUNCTION COUPLED WITH WAVEGUIDE. <i>International Journal of Modern Physics B</i> , 2009, 23, 4395-4401.	2.0	1
78	Terahertz radiation from Josephson sandwiches. <i>Low Temperature Physics</i> , 2010, 36, 728-735.	0.6	1
79	Cherenkov radiation of the periodic vortex Josephson chain. <i>Doklady Physics</i> , 2011, 56, 517-519.	0.7	1
80	Weibel instability in the field of a short laser pulse. <i>Plasma Physics Reports</i> , 2013, 39, 236-242.	0.9	1
81	Longitudinal electron waves and instability of collisional plasma formed by multiphoton ionization of gas atoms. <i>Physics of Plasmas</i> , 2020, 27, 112110.	1.9	1
82	On Cherenkov excitation of electromagnetic waves by vortex travelling in Josephson sandwich. <i>Physica Scripta</i> , 2022, 97, 055817.	2.5	1
83	Filamentation and stimulated Brillouin scattering in a turbulent plasma. <i>Journal of Experimental and Theoretical Physics</i> , 1998, 86, 348-356.	0.9	0
84	Stimulated Brillouin scattering in a plasma with ion-acoustic turbulence. <i>Journal of Experimental and Theoretical Physics</i> , 2000, 90, 79-92.	0.9	0
85	Electron distribution and harmonic generation during plasma heating by high-power radiation. <i>Plasma Physics Reports</i> , 2002, 28, 657-665.	0.9	0
86	Anomalous penetration of an electromagnetic field into a nonisothermal plasma with two species of ions. <i>Technical Physics</i> , 2007, 52, 1416-1421.	0.7	0
87	Anomalous diffusion and thermal diffusion of light ions in a nonisothermal plasma. <i>JETP Letters</i> , 2008, 87, 677-681.	1.4	0
88	Cherenkov radiation emitted by a vortex into an anisotropic dielectric. <i>Technical Physics</i> , 2011, 56, 1118-1122.	0.7	0
89	Cherenkov radiation linewidth of a Josephson vortex train. <i>Low Temperature Physics</i> , 2014, 40, 206-210.	0.6	0
90	High-frequency conductivity of photoionized plasma. <i>Plasma Physics Reports</i> , 2016, 42, 743-748.	0.9	0

#	ARTICLE	IF	CITATIONS
91	High-Frequency Quasi-Potential Waves in the Plasma Formed under Tunnel Ionization of Atoms. Plasma Physics Reports, 2018, 44, 703-712.	0.9	0
92	Plasma waves excitation by a short pulse of focused laser radiation. Physics of Plasmas, 2018, 25, .	1.9	0
93	FREE AND INDUCED VORTICES MOTION IN THE JOSEPHSON JUNCTION COUPLED WITH WAVEGUIDE. , 2009, , .		0
94	High-frequency skin effect in a photoionized inert gas plasma. Journal of Physics: Conference Series, 2020, 1692, 012005.	0.4	0