

Sergei Pavlovich Roshchupkin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Fundamental physical features of resonant spontaneous bremsstrahlung radiation of ultrarelativistic electrons on nuclei in strong laser fields. <i>New Journal of Physics</i> , 2022, 24, 013020.	2.9	8
2	Radiation of High-Energy Gamma Quanta by Ultrarelativistic Electrons on Nuclei in Strong X-ray Fields. <i>Universe</i> , 2022, 8, 218.	2.5	4
3	Resonant effects in the spontaneous bremsstrahlung process of ultrarelativistic electrons in the fields of a nucleus and a pulsed light wave. <i>Laser Physics Letters</i> , 2021, 18, 045301.	1.4	9
4	Resonant effect of the ultrarelativistic electron-positron pair production by gamma quanta in the field of a nucleus and a pulsed light wave. <i>Laser Physics</i> , 2021, 31, 045301.	1.2	8
5	Resonant production of high-energy electron-positron pairs and gamma quanta in the quantum electrodynamics processes in strong laser fields. , 2021, , .		2
6	Resonant Effect of High-Energy Electron-Positron Pairs Production in Collision of Ultrarelativistic Electrons with an X-ray Electromagnetic Wave. <i>Universe</i> , 2021, 7, 210.	2.5	2
7	Resonant photoproduction of ultrarelativistic electron-positron pairs on a nucleus in moderate and strong monochromatic light fields. <i>Physical Review D</i> , 2021, 104, .	4.7	9
8	Laser-assisted interaction between nonrelativistic electrons and positrons. <i>Laser Physics Letters</i> , 2020, 17, 016002.	1.4	0
9	Resonant Production of an Ultrarelativistic Electron-Positron Pair at the Gamma Quantum Scattering by a Field of the X-ray Pulsar. <i>Universe</i> , 2020, 6, 164.	2.5	2
10	Resonant Ultrarelativistic Electron-Positron Pair Production by High-Energy Electrons in the Field of an X-ray Pulsar. <i>Universe</i> , 2020, 6, 132.	2.5	4
11	The Resonant Effect of an Annihilation Channel in the Interaction of the Ultrarelativistic Electron and Positron in the Field of an X-ray Pulsar. <i>Universe</i> , 2020, 6, 137.	2.5	3
12	Resonant Effects in a Photoproduction of Ultrarelativistic Electron-Positron Pairs on a Nucleus in the Field of the X-ray Pulsar. <i>Universe</i> , 2020, 6, 141.	2.5	7
13	The Resonant Bremsstrahlung of Ultrarelativistic Electrons on a Nucleus with Radiation of Hard Gamma-Quanta in the Presence of a Pulsed Field of the X-ray Pulsar. <i>Universe</i> , 2020, 6, 143.	2.5	6
14	Resonant Effect for Breit-Wheeler Process in the Field of an X-ray Pulsar. <i>Universe</i> , 2020, 6, 190.	2.5	6
15	Resonant high-energy bremsstrahlung of ultrarelativistic electrons in the field of a nucleus and a weak electromagnetic wave. <i>Laser Physics Letters</i> , 2020, 17, 045301.	1.4	15
16	Resonant annihilation and production of high-energy electron-positron pairs in an external electromagnetic field. <i>Modern Physics Letters A</i> , 2020, 35, 2040023.	1.2	6
17	Resonant emission of hard gamma-quanta at scattering of ultrarelativistic electrons on a nucleus within the external light field. <i>Modern Physics Letters A</i> , 2020, 35, 2040024.	1.2	3
18	Resonant production of electron-positron pairs by a hard gamma-ray on a nucleus in an external electromagnetic field. <i>Modern Physics Letters A</i> , 2020, 35, 2040025.	1.2	6

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19	Resonant Breit-Wheeler process in an external electromagnetic field. Modern Physics Letters A, 2020, 35, 2040027.	1.2	5
20	Resonant Laser-Assisted Process of Ultrarelativistic Electrons Bremsstrahlung in the Field of a Nucleus. Plasma Physics Reports, 2020, 46, 252-258.	0.9	0
21	Resonant photoproduction of high-energy electron-positron pairs in the field of a nucleus and a weak electromagnetic wave. Physical Review A, 2019, 100, .	2.5	17
22	The appearances of the resonant spontaneous emission of ultrarelativistic electrons in the field of a nucleus and a laser. Journal of Physics: Conference Series, 2019, 1236, 012073.	0.4	0
23	Resonance of the Annihilation Channel of a Laser-Assisted Electron-Positron Scattering. , 2019, , .		0
24	Resonant Production of an Ultrarelativistic Electron-Positron Pair by a Gamma Quantum in the Field of a Nucleus and a Laser Wave. , 2019, , .		0
25	Resonant Spontaneous Bremsstrahlung of Ultrarelativistic Electrons in the Field of a Nucleus and a Laser Wave. , 2019, , .		0
26	Spontaneous bremsstrahlung of ultrarelativistic electrons within the resonant conditions in the field of a nucleus and external electromagnetic field. , 2019, , .		0
27	New aspects of resonant effects in laser-modified Quantum Electrodynamics processes : (Invited). , 2019, , .		0
28	Resonant laser-assisted process of the electron-positron pairs annihilation and production. AIP Conference Proceedings, 2019, , .	0.4	1
29	Resonant laser-assisted process of the ultrarelativistic electron-positron pair creation by a gamma quantum in the nucleus field. AIP Conference Proceedings, 2019, , .	0.4	1
30	Resonant parametric interference effect in spontaneous bremsstrahlung of an electron in the field of a nucleus and two pulsed laser waves. Physical Review A, 2018, 97, .	2.5	19
31	Effective interaction of electrons in the field of two strong laser waves with phase shifts allowance. Laser and Particle Beams, 2018, 36, 55-59.	1.0	1
32	Resonant Parametric Interference Effect at Quantun Electrodynamics Processes in the Field of Two Pulsed Laser Waves. , 2018, , .		0
33	Two-photon emission of an electron in the weak pulsed laser field for the resonant case. Laser Physics, 2017, 27, 026003.	1.2	1
34	Parametric interference effect in nonresonant pair photoproduction on a nucleus in the field of two pulsed light waves. Physical Review A, 2017, 95, .	2.5	9
35	Resonant processes of quantum electrodynamics in a pulsed laser field. , 2017, , .		0
36	Nonresonant electron-nucleus spontaneous bremsstrahlung in the field of two pulsed laser waves. , 2016, , .		0

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37	Influence of strong pulsed laser fields at resonant and coherent quantum electrodynamics processes. , 2016, , .		1
38	Resonant laser-modified electron-electron scattering by a strong bichromatic pulsed field. , 2016, , .		0
39	Resonant scattering of ultrarelativistic electrons in the strong field of a pulsed laser wave. Laser Physics, 2016, 26, 025302.	1.2	6
40	Resonant two-photon annihilation of an electron-positron pair in a pulsed electromagnetic wave. Physical Review A, 2016, 94, .	2.5	6
41	Parametric interference effect in nonresonant spontaneous bremsstrahlung of an electron in the field of a nucleus and two pulsed laser waves. Physical Review A, 2016, 94, .	2.5	13
42	The anomalous interaction of electrons in strong pulsed light fields. Laser Physics Letters, 2016, 13, 116001.	1.4	4
43	Resonance of the exchange amplitude of a photon by an electron scattering in a pulsed laser field. Physical Review A, 2015, 91, .	2.5	9
44	Parametric interference Compton effect in two pulsed laser waves. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 055401.	1.5	6
45	Interaction of identically charged particles in a pulsed field of two laser waves propagating in the one direction. Laser Physics, 2015, 25, 076001.	1.2	4
46	Parametric interference electron- μ on scattering in the field of two pulse laser waves. Laser Physics, 2014, 24, 106006.	1.2	0
47	Amplification of an electromagnetic field at the scattering of the nonrelativistic electron by an ion in the external field of medium intensity for an arbitrary angle of the initial electron. Laser Physics, 2014, 24, 086004.	1.2	0
48	Parametric interference effect in electron-nucleus scattering in the field of two pulsed laser waves. Physical Review A, 2014, 90, .	2.5	9
49	Resonant scattering of a photon by an electron in the moderately-strong-pulsed laser field. Physical Review A, 2013, 88, .	2.5	21
50	Amplification of electromagnetic field in electron scattering by ions in a weak light field: general relativistic case. Laser Physics, 2013, 23, 106001.	1.2	1
51	The interference effect in electron scattering on a nucleus in the field of two pulsed laser waves of circular polarization. Laser Physics, 2013, 23, 125301.	1.2	10
52	Influence of an intense pulsed electromagnetic field on nonresonant scattering of a photon by an electron for the nonrelativistic energy. European Physical Journal D, 2013, 67, 1.	1.3	4
53	Laser-modified Compton scattering in the middle-intensity pulsed field. , 2013, , .		0
54	Formation of an electron-positron pair by a photon in the field of two pulsed laser waves. , 2013, , .		0

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55	The effective interaction force between positron and electron in a pulsed laser field. , 2013, , .		0
56	Resonance interference scattering of a lepton by a lepton in the bichromatic pulsed laser field. , 2013, , .		0
57	Influence of the moderate-strong pulsed laser field at the quantum electrodynamics processes. , 2013, , .		0
58	Interference e- γ scattering in two-mode pulse-wave laser field. , 2013, , .		0
59	Gain coefficient in the course of the electron scattering by ions in a weak electromagnetic field: General relativistic case. , 2013, , .		0
60	Nonrelativistic electron scattering on a nucleus in the field of a bichromatic laser pulse. , 2013, , .		0
61	Nonresonant Compton scattering in an intense pulsed laser field. Laser Physics, 2013, 23, 055301.	1.2	7
62	One-photon emission of electron in the field two pulsed laser waves. , 2013, , .		0
63	Resonant Interference Effect in Scattering of an Electron by an Electron in the Field of Two Pulsed Laser Waves. Universal Journal of Physics and Application, 2013, 7, 274-285.	0.2	3
64	Interaction of classical nonrelativistic identically charged particles in a strong pulsed light field. Laser Physics, 2012, 22, 1202-1219.	1.2	6
65	Nonresonant quantum electrodynamics processes in a pulsed laser field. Laser Physics, 2012, 22, 1513-1546.	1.2	50
66	Quantum electrodynamics resonances in a pulsed laser field. Laser Physics, 2012, 22, 1113-1144.	1.2	81
67	Influence of the strong pulsed laser field at the resonant effects of quantum electrodynamics. , 2011, , .		0
68	Heavy nuclei confinement effect in a pulsed light field. Laser Physics, 2011, 21, 769-773.	1.2	6
69	Nonresonant photocreation of electron-positron pair on a nucleus in the field of a pulsed light wave. Laser Physics, 2011, 21, 1613-1620.	1.2	12
70	Resonant scattering of photon by electron in the presence of the pulsed laser field. Laser Physics, 2011, 21, 1675-1687.	1.2	24
71	Resonant electron-positron pair photoproduction on a nucleus in a pulsed light field. Journal of Experimental and Theoretical Physics, 2011, 113, 46-54.	0.9	13
72	One-photon annihilation of an electron-positron pair in the field of pulsed circularly polarized light wave. Laser Physics, 2010, 20, 1679-1685.	1.2	22

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73	Resonant scattering of a lepton by a lepton in the pulsed light field. Laser Physics, 2010, 20, 2080-2091.	1.2	20
74	Superradiation in the course of the electron scattering by ions in a light field. , 2010, , .		0
75	Resonant scattering of a lepton by a lepton in the pulsed electromagnetic field. , 2010, , .		0
76	Resonant spontaneous bremsstrahlung by an electron scattered by a nucleus in the field of a pulsed light wave. Physical Review A, 2010, 81, .	2.5	41
77	Resonance two-photon annihilation of an electron-positron pair in the light wave field. , 2010, , .		0
78	Resonance of direct amplitude of process of scattering of a photon by an electron in the pulsed laser field. , 2010, , .		0
79	The uranium nuclei attraction effect in the pulse field of two counter-propagating laser waves. , 2010, , .		0
80	Nonresonant scattering of a photon by an electron in the pulsed electromagnetic field. , 2010, , .		0
81	Resonant bremsstrahlung of an electron scattered by an ion in a pulsed light field. , 2010, , .		0
82	Nonresonant scattering of relativistic electron by relativistic muon in the pulsed light field. Laser Physics Letters, 2009, 6, 242-251.	1.4	26
83	Spontaneous bremsstrahlung effect in the nonrelativistic electron scattering by a nucleus in the field of pulsed light wave. Laser Physics Letters, 2009, 6, 472-479.	1.4	27
84	Nonresonant scattering of nonrelativistic electron by nonrelativistic muon in the pulsed light field. Laser Physics Letters, 2009, 6, 616-623.	1.4	22
85	Anomalous amplification of electromagnetic field in the course of the nonrelativistic electron scattering by ion in the moderate-strong light field. Laser Physics Letters, 2009, 6, 906-911.	1.4	11
86	Nonresonant spontaneous bremsstrahlung by a relativistic electron scattered by a nucleus in the field of pulsed light wave. European Physical Journal D, 2009, 53, 113-122.	1.3	35
87	Nonresonant muon pair production in electron-positron annihilation in the field of light wave. Laser Physics, 2009, 19, 531-537.	1.2	16
88	Amplification of electromagnetic field in the course of the nonrelativistic electron scattering by ion in the presence of the field of the medium-intensity elliptically polarized light wave. Laser Physics, 2009, 19, 1723-1728.	1.2	12
89	The radiation amplification effect in the scattering of a quasi-classical electron by an ion in the weak electromagnetic field. Laser Physics Letters, 2008, 5, 75-83.	1.4	18
90	The influence of a pulsed light field on the electron scattering by a nucleus. Laser Physics Letters, 2008, 5, 437-445.	1.4	33

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91	Amplification of circularly polarized electromagnetic wave in the coulomb centre scattering of nonrelativistic electron. Laser Physics Letters, 2008, 5, 619-623.	1.4	20
92	The hydrogen ions attraction effect in the pulsed field of two laser waves propagating in the opposite directions. Laser Physics Letters, 2008, 5, 691-695.	1.4	8
93	Resonant scattering of an electron by a muon in the field of light wave. European Physical Journal D, 2008, 48, 451-458.	1.3	29
94	Resonant two-photon annihilation of an e^+e^- pair in the laser field. , 2008, , .		0
95	Nonresonant e^+e^- pair annihilation to $\mu^+\mu^-$ pair in the field of light wave. , 2008, , .		0
96	One-photon annihilation of an electron-positron pair in the intense pulsed laser field. , 2008, , .		0
97	The radiation amplification effect in the scattering of a quasi-classical electron by an ion in an electromagnetic field of medium intensity. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 085204.	1.5	14
98	Nonresonant electron-muon scattering in the pulsed electromagnetic field. , 2008, , .		0
99	Nonresonance spontaneous bremsstrahlung of an electron scattered by a nucleus in a pulsed light field. , 2008, , .		0
100	Nonresonant scattering of an electron by a muon in the field of plane electromagnetic wave. Laser Physics Letters, 2007, 4, 872-879.	1.4	34
101	Resonance of exchange amplitude of Compton effect in the circularly polarized laser field. European Physical Journal D, 2007, 41, 433-440.	1.3	32
102	Interaction of the nonrelativistic electrons in the pulsed field of two laser waves. European Physical Journal D, 2007, 44, 401-405.	1.3	20
103	Interference suppression in the two-photon annihilation of an electron-positron pair in the light wave field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 965-973.	1.5	21
104	Calculation of Resonant Cross-Section of Second Order Process in the Field of Plane Wave. , 2006, , .		0
105	Resonant Two-Photon Annihilation of an Electron-Positron Pair in the Light Wave Field. , 2006, , .		0
106	The light amplification effect in the Coulomb scattering of nonrelativistic electrons in a two-mode laser field. Laser Physics Letters, 2006, 3, 362-368.	1.4	30
107	Amplification of light during the scattering of a relativistic electron by a nucleus in a moderately strong field of a circularly polarized light wave. Journal of Experimental and Theoretical Physics, 2005, 100, 884-894.	0.9	20
108	Resonant scattering of a photon by an electron in the field of a circularly polarized electromagnetic wave. Laser Physics Letters, 2005, 2, 184-189.	1.4	45

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109	The Coulomb-repulsion compensation between the ions of the beam in the presence of a strong pulsed laser field. Laser Physics Letters, 2005, 2, 407-411.	1.4	25
110	The light amplification effect in the Coulomb scattering of nonrelativistic electrons in the field of strong circularly polarized light wave. Laser Physics Letters, 2004, 1, 357-361.	1.4	29
111	Interference effect in the photoproduction of electron-positron pairs on a nucleus in the field of two light waves. Physics of Atomic Nuclei, 2001, 64, 243-252.	0.4	25
112	Non-resonance electron scattering in the field of two plane light waves. Physica Scripta, 1994, 50, 339-342.	2.5	21
113	Relativistic effects in the angular distribution of ejected electrons in tunneling ionization of atoms by strong electromagnetic fields. Journal of the Optical Society of America B: Optical Physics, 1992, 9, 1231.	2.1	11
114	Suppression of interference in e-e scattering by the field of a strong electromagnetic wave. Journal of Physics A, 1984, 17, 3143-3149.	1.6	10
115	Spontaneous bremsstrahlung with electron scattering in the field of a plane electromagnetic wave. Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika), 1983, 26, 334-338.	0.0	0
116	Resonance effects with the photoproduction of electron-positron pairs in the field of a plane electromagnetic wave. Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika), 1983, 26, 334-338.	0.0	0
117	Pressure dependence of electrical conductivity in high magnetic fields. Journal of Applied Mechanics and Technical Physics, 1982, 22, 706-711.	0.5	0
118	The light amplification effect in the process of an electron scattering on a nucleus in a strong laser field. , 0, , .		0
119	Influence of relativistic and quantum effects on the blur in projection lithography systems. , 0, , .		0
120	The light amplification effect in the scattering of electron by a nucleus in the electromagnetic field. , 0, , .		0
121	Resonant scattering of a photon by an electron in the field of elliptic polarized electromagnetic wave. , 0, , .		0
122	The influence of space charge effect and stochastic effects on spatial resolution of nuclear microprobe. , 0, , .		1
123	Non-resonance annihilation of electron-positron pair in the field of light wave. , 0, , .		0
124	The beam ions interaction in the presence of two strong pulsed laser fields. , 0, , .		0