СПИСОК

публикаций, в которых излагаются основные научные результаты диссертации

на соискание ученой степени ____доктора физико-математических наук_____*наук*

по научной специальности 1.3.6. – оптика

(шифр – наименование) на тему: **Предельно короткие и униполярные импульсы в когерентных оптических процессах** ***(наименование),***

опубликованных в рецензируемых изданиях

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1	Model of coherent passive	Статья Q1		Physical Review A	2469-9934	2024. – V. 130. – №. 3. – P. 52.	https://journals.aps.org/pra/abstract/10.1103/PhysRev	Scopus	123	22	12 печ.л., вклад 50%	Pakhomov A.

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2	Bragg-like microcavity formed by collision of single-cycle self-induced transparency light pulses in a .resonant medium	Статья Q1		Optics Letters	1539-4794	2024. – V.49. – No. 10. – P. 2549.	https://opg.optica.org/ol/abstract.cfm?uri=ol-49-10-2549	Scopus	132	22	4 печ. л., вклад 90%	Pakhomov A., Diachkova O., Arkhipov M., Rosanov N.
3	Self-induced transparency mode locking, and area theorem	Статья Q1		Optics Letters	1539-4794	2016. – Vol. 41. – №. 4. – P. 737-740	https://opg.optica.org/ol/abstract.cfm?uri=ol-41-4-737	Scopus	11	10	4 печ.л., вклад 70%	Arkhipov M. V., Babushkin I., Rosanov N. N.

4	Semiconductor mode-locked lasers with coherent dual-mode optical injection: simulations, analysis, and experiment	Статья Q1		Journal of the Optical Society of America B: Optical Physics	07403224	2016. – Vol. 33. – №. 3. – P. 351-359.	https://opg.optica.org/josab/abstract.cfm?uri=josab-33-3-351	Scopus	12	22	9 печ.л., вклад 80%	Habrusseva T., Pimenov A., Radziunas M., Hegarty S. P. Huyet G., Vladimirov A. G.
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6	Generation of unipolar pulses in a circular Raman-active	Статья Q1		Journal of the Optical Society of America B: Optical Physics	07403224	2016. – Vol. 33. – №. 12. – P. 2518-2524.	https://opg.optica.org/josab/abstract.cfm?uri=josab-33-12-2518	Scopus	17	20	7 печ.л., вклад 80%	Pakhomov A. V., Babushkin I. V., Arkhipov M. V.,

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	t medium						C2pVb9lX_fanrxvt691nouGoQkxBToT_sOG11-4qWFubhr5ClnNA					
13	Population density gratings induced by few-cycle optical pulses in a resonant medium	статья Q1		Scientific reports	2045-2322	2017. – Vol. 7. – Article No. 12467	https://www.nature.com/articles/s41598-017-12267-w	Scopus	31	54	21 печ.л., вклад 80%	Pakhomov A. V., Arkhipov M. V., Babushkin I., Demircan A., Morgner U., Rosanov N. N.
14	Passive and hybrid mode locking in multi-section terahertz quantum cascade lasers	статья Q1		New Journal of Physics	1367-2630	2018. – Vol. 20. – №. 5. – P. 053055.	https://iopscience.iop.org/article/10.1088/1367-2630/aac12a/meta	Scopus	38	22	9 печ.л.	Tzenov P., Babushkin I., Arkhipov M., Rosanov N., Morgner U., Jirauschek C
15	Mode-locking	статья Q1		Laser Physics Letters	1612-202X	2018. – Vol. 15. – №. 7. –	https://iopscience.io	Scopus	40	19,64	6 печ.л., вклад 60%	Arkhipov M. V.,

	based on zero-area pulse formation in a laser with a coherent absorber					P. 075003.	p.org/article/10.1088/1612-202X/aac1a0/meta?casa_token=3MSZHm_qPsgAAAAA:_2_ooQiQ8b7awgLuq-q3eROZrYPJ-AoKmXlGgKN0xX_YfwbrLvNYlgclPJPMZPSIw_WcGbMq9M4uLSrSb1aJFZgVyQ					Shimko A. A., Babushkin I., Kalinichev A. A., Demircan A., Morgner U.U., Rosanov N. N
16	Unipolar subcycle pulse-driven nonresonant excitation of quantum systems	статья Q1		Optics Letters	1539-4794	2019. – Vol. 44. – №. 5. – P. 1202-1205.	https://opg.optica.org/ol/abstract.cfm?uri=ol-44-5-1202	Scopus+	45	12	4 печ.л., вклад 80%	Pakhomov A. V., Arkhipov M. V., Babushkin I., Demircan A., Morgner U., Rosanov N. N.
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	terahertz waveforms from a resonant medium controlled by diffractive optical elements					1-12	om/articles/s41598-019-43852-w					V., Arkhipov M. V., Demircan A., Morgner U., Rosanov N. N., Babushkin I.
18	Self-induced transparency mode locking in a Ti: sapphire laser with an intracavity rubidium cell	Статья Q1		Physical Review A	2469-9934	2020. – Vol. 101. – №. 1. – P. 013803	https://journals.aps.org/pra/abstract/10.1103/PhysRevA.101.013803	Scopus	55	19	7 печ.л., вклад 70%	Arkhipov M. V., Shimko A. A., Rosanov N. N. Babushkin I., Arkhipov R. M.
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												S., Babushkin I., Skryabin D., Steinmeyer G., Demircan A.
22	Stable coherent mode-locking based on π pulse formation in single-section lasers	статья Q1		Scientific Reports	2045-2322	2021. – Vol. 11. – Art. №1147.	https://www.nature.com/articles/s41598-020-80775-3	Scopus	69	22	13 печ.л., вклад 70%	Pakhomov A., Arkhipov M., Babushkin I., Rosanov N.
23	Population difference gratings created on vibrational transitions by nonoverlapping subcycle THz pulses	статья Q1		Scientific Reports	2045-2322	2021. – Vol. 11. – Art. № 1961.	https://www.nature.com/articles/s41598-021-81275-8	Scopus	70	22	12 печ.л., вклад 80%	Pakhomov A., Arkhipov M., Babushkin I., Demircan A., Morgner U., Rosanov N.

24	Single-cycle pulse compression in dense resonant media	статья Q1		Optics Express	1094-4087	2021. – Vol. 29. – №. 7. – P. 10134-10139.	https://opg.optica.org/oe/fulltext.cfm?uri=oe-29-7-10134&id=449273	Scopus	73	22	6 печ.л., вклад 80%	Arkhipov M., Demircan A., Morgner U., Babushkin I., Rosanov N
25	Temporal differentiation and integration of few-cycle pulses by ultrathin metallic films	статья Q1		Optics Letters	1539-4794	2021. – Vol. 46. – №. 12. – P. 2868-2871	https://opg.optica.org/ol/abstract.cfm?uri=ol-46-12-2868	Scopus	77	21	4 печ.л., вклад 70%	Arkhipov R., Arkhipov M., Rosanov N. N.
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	geneous medium											
27	Criterion for the yield of micro-object ionization driven by few- and subcycle radiation pulses with nonzero electric area	статья Q1		Physical Review A	2469-9934	2021. – Vol. 104. – №. 6. – P. 063101	https://journals.aps.org/pra/abstract/10.1103/PhysRevA.104.063101	Scopus	86	52	5 печ.л., вклад 70%	Rosanov N., Tumakov D., Arkhipov M.
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2	Ultrafas	статья		Physical	2469-	2022. – Vol.	https://jour	Scopus	91	12,52	12 печ.л.,	Pakhom

9	t control of vibrational states of polar molecules with subcycle unipolar pulses	Q1		Review A	9934	105. – №. 4. – P. 043103.	nals.aps.org/pra/abstract/10.1103/PhysRevA.105.043103				вклад 70%	ov A., Arkhipov M., Rosanov N.
30	Self-Stopping of Light	статья Q1		Physical Review Letters	10797114	2022. – Vol. 128. – №. 20. – P. 203901	https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.128.203901	Scopus+	93	20	6 печ.л., вклад 60%	Arkhipov M., Babushkin I., Rosanov N.
31	Generation of waveform-tunable unipolar pulses in a nonlinear resonant medium	статья Q1		Physical Review A	2469-9934	2022. – Vol. 106. – №. 5. – P. 053506.	https://journals.aps.org/pra/abstract/10.1103/PhysRevA.106.053506	Scopus	95	20	10 печ.л., вклад 80%	Pakhomov A., Arkhipov M., Rosanov N.
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	t mode locking in a two-section laser with identical gain and absorber media					– P. 013510.	act/10.1103/PhysRevA.107.013510					v M., Rosanov N.
33	Area theorem in a ring laser cavity	Статья Q1		Physical Review A	2469-9934	2023. – V.108. – № 2. – P. 023506	https://journals.aps.org/pra/abstract/10.1103/PhysRevA.108.023506	Scopus	112	22	13 печ.л., вклад 60%	Arkhipov M., Rosanov N.
34	Generation of an ultrahigh-repetition-rate optical half-cycle pulse train in the nested quantum wells	Статья Q1		Optics Letters	1539-4794	Optics Letters. 2023. Т. 48. № 17. С. 4637.	https://opg.optica.org/ol/abstract.cfm?uri=ol-48-17-4637	Scopus	117	45	4 печ.л., вклад 70%	Arkhipov M., Pakhomov A.., Rosanov N.
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36	Excitation and control of level populations in rectangular quantum wells by unipolar half-cycle attosecond pulses	Статья Q2		Journal of the Optical Society of America B: Optical Physics	2773-0123	2024. – V. 41. – №. 1. – P. 285-295	https://opg.optica.org/josab/abstract.cfm?uri=josab-41-1-285	Scopus	119	12	11 печ.л., вклад 80%	Belov P., Pakhomov A., Arkhipov M., Rosanov N.
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42	Self-starting stable coherent mode-locking in a two-section laser	Статья Q2		Optics Communications, Q2	0030-4018	2016. – Vol. 361. – P. 73-78	https://www.sciencedirect.com/science/article/pii/S0030401815302169?casa_token=zQORqY6LdXQAAAAA:AzZ6BW9PaPfHISTzMs_2ITDxBzPSkcybT2E6cTRSIljHU0n3PR-5kynEnOr	Scopus	10	10.61	6 печ.л., вклад 70%	Arkhipov M. V., Babushkin I.

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44	Laser beam deflector based generation of few-cycle electromagnetic pulses in a circular nonlinear medium	статья Q2		Optics Communications	0030-4018	2018. – Vol. 424. – P. 170-176.	https://www.sciencedirect.com/science/article/pii/S0030401818303195?casa_token=B6MZqIIVDPeIAAAAA:o3fXJZInFkTvRX7PqYa5PO_5ThaPR8HWRI8J624-suVSwbH	Scopus	41	22	7 печ.л., вклад 80%	Zigulev a D. O., Arkhipov M. V., Pakhomov A. V., Babushkin I., Rosanov N. N.

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51	Generation of Ultrashort Attosecond and Terahertz Pulses Based on the Collective Spontaneous Emission from a Thin Resonant Medium (Brief Review)	Обзорная статья Q2		JETP Letters	1090-6487	2021. – Vol. 113. – №. 4. – P. 242-251	https://link.springer.com/article/10.1134/S0021364021040081	Scopus	71	22	10 печ.л., вклад 80%	Arkhipov M. V., Pakhomov A. V., Zhukova M. O., Tcypkin A. N., Rosanov N. N.
52	Coherent propagation of a half-cycle unipolar attosecond pulse in	статья Q2		Journal of the Optical Society of America B: Optical Physics	07403224	2021. – Vol. 38. – №. 6. – P. 2004-2011	https://opg.optica.org/josab/abstract.cfm?uri=josab-38-6-2004	Scopus	75	46	8 печ.л., вклад 80%	Arkhipov M., Babushkin I., Pakhomov A., Rosanov N.

	a resonant two-level medium											
53	Atomic Scale of an Electrical Area for Unipolar Light Pulses	статья Q2		JETP Letters	1090-6487	2021. – Vol. 114. – P. 129-131	https://link.springer.com/article/10.1134/S0021364021150029	Scopus	79	12,52	4 печ.л., вклад 80%	Arkhipov M. V., Pakhomov A. V., Rosanov N. N.
54	Electromagnetically induced gratings created by few-cycle light pulses (brief review)	Обзорная статья Q2		JETP Letters	1090-6487	2021. – Vol. 113. – P. 611-621	https://link.springer.com/article/10.1134/S0021364021100040	Scopus	80	18	11 печ.л., вклад 100%	-
55	Envelope Area and Electric Pulse Area Interference in Excitation of	статья Q2		JETP Letters	1090-6487	2021. – Vol. 114. – №. 5. – P. 250-255	https://link.springer.com/article/10.1134/S002136402117001X	Scopus	81	22	6 печ.л., вклад 70%	Arkhipov M. V., Babushkin I., Pakhomov A. V., Rosanov N. N.

	Quantum Systems by Few-cycle Attosecond Light Pulses											
56	Experimental Determination of the Unipolarity of Pulsed Terahertz Radiation	статья Q2		JETP Letters	1090-6487	2022. – Vol. 115. – №. 1. – P. 1-6	https://link.springer.com/article/10.1134/S0021364022010015	Scopus	87	19	7 печ.л., вклад 60%	Arkhipov M. V., Tsypkin A. N., Zhukova M. O., Ismagilov A. O., Pakhomov A. V., Rosanov N. N.
57	Superradiance of an Extended Resonant Medium Excited by Half-Cycle	статья Q2		JETP Letters	1090-6487	2022. – Vol. 116. – №. 3. – P. 149-155	https://link.springer.com/article/10.1134/S0021364022601233	Scopus	94	22	7 печ.л., вклад 80%	Pakhomov A. V., Arkhipov M. V., Rosanov N. N.

	Attosecond Pulses											
58	Light-induced dynamic microcavities created in a resonant medium by collision of non-harmonic rectangular 1-fs light pulses	статья, Q2		Optics Communications	0030-4018	2023. – Vol. 538. – P. 129475.	https://www.sciencedirect.com/science/article/pii/S0030401823002225?casa_token=1UfJT1XUlG8AAAAA:msUVsAr0J2vdOVQHpBFF5mQ2UzZxse2PUMJaY11ZJalWDBWLMzHiScZXkbdr7nvDGFZIMNfo7w	Scopus	101	56	6 печ.л., вклад 80%	Diachkova O. O., M., Arkhipov M. V., Pakhomov A. V., Rosanov N. N.
59	Formation of the stopped polarization pulse in a rectangular quantum well	статья Q2		Micro and Nanostructures	27730123	2023. – Vol. 180. – P. 207607	https://www.sciencedirect.com/science/article/pii/S2773012323001048?casa_token=iBg2M__8QBYAAAAA:PJiRNnC0L5MaRffwlxDc	Scopus	110	12	9 печ.л., вклад 70%	Belov P. A.

							REkVaM1LB_CXZAttkMwm1hRna8oDcbcYdULmN3JwxiX0xaDhoMsx3Q					
60	Optical microcavity formation and ultrafast control using half-cycle attosecond pulses in two- and three-level media	Статья Q2		Optics Communications	0030-4018	2024. Vol. 565. – P. 130666	https://www.sciencedirect.com/science/article/pii/S0030401824004036?casa_token=GVpdsmX8x4oAAAAA:NoLUiKLQMvgptMI4rwCOAGLkkeY4Ji1A_KPQdjeRY73XBaMDI-yDQWcPoIW2fywHVJ8uz-dOuA	Scopus	116	22	7 печ.л., вклад 70%	Diachkova O. O., Arkhipov M. V., Pakhomov A. V., Rosanov N. N
61	Generation of unipolar pulses in nonlinear	Обзорная статья Q2		JETP Letters	1090-6487	2017. – Vol. 105. – P. 408-418	https://link.springer.com/article/10.1134/S0021364017060042	Scopus	25	45	11 печ.л., вклад 80%	Pakhomov A. V., Arkhipov M. V., Babushkin I.,

	media											Tolmachev Yu. A., Rosanov N. N.
62	Optical Aharonov—Bohm Effect	Статья Q2		JETP Letters	1090-6487	2020. – Vol. 111. – №. 12. – P. 668-671].	https://link.springer.com/article/10.1134/S0021364020120056	Scopus	60	21	4 печ.л., вклад 70%	Arkhipov M. V., Rosanov N. N.
63	Population difference gratings produced by unipolar subcycle pulses in a resonant medium	статья Q2		Quantum Electronics	1468-4799	2017. – Vol. 47. – №. 7. – P. 589	https://iopscience.iop.org/article/10.1070/QEL16389/meta	Scopus	29	46	5 печ.л., аклад 80%	Arkhipov, M. V., Babushkin I., Pakhomov A. V., Rosanov N. N.
						И другие по итогам диссертации						
64	Controlling the Radiation Parameters of a	Статья Q3		Optics and Spectroscopy	1562-6911	2016. – Vol. 120. – P. 423-433	https://link.springer.com/article/10.1134/S0030400X16030036	Scopus	13	22	11 печ.л., вклад 80%	Arkhipov M. V. Belov P. A., Babushkin I.,

	Resonant Medium Excited by a Sequence of Ultrashort Superluminal Pulses											Tolmachev Yu. A
65	Electric Area Conservation Rule and the Validity of Some Models of Subcycle Pulse Propagation	Статья Q3		JETP Letters	1090-6487	2024. – V. 119. – №. 2. – P. 94-103	https://link.springer.com/article/10.1134/S0021364023603883	Scopus	121	46	10 печ.л., вклад 70%	Pakhomov A. V., Rosanov N. N., Arkhipov M.V.
66	Dynamics of microcavities created by nonharmonic unipola	Статья Q3		Applied Physics B	1432-0649	2024. – V. 130. – №. 3. – P. 52	https://link.springer.com/article/10.1007/s00340-024-08191-3	Scopus	122	56	6 печ.л., вклад 80%	Diachkova O. O., Arkhipov M. V., Pakhomov A. V., Rosano

	r light pulses in a resonant medium											v N. N.
67	Electromagnetically induced gratings created by extremely short non-overlapping pulses of light in a three-level resonant medium	Статья Q3		Laser Physics	1555-6611	2024. – V.34. – No.6. –P. 065301.	https://iopscience.iop.org/article/10.1088/1555-6611/ad3ae6	Scopus	131	18	8 печ.л., вклад 100%	-
68	Particular features of the emission of radiation by a superluminally excited	Статья Q3		Optics and Spectroscopy	1562-6911	2016. – Vol. 120. – P. 756-759	https://link.springer.com/article/10.1134/S0030400X16050039	Scopus	14	20	4 печ.л., вклад 100%	-

	Raman-active medium											
69	Formation and erasure of population difference gratings in the coherent interaction of a resonant medium with extremely short optical pulses	Статья Q3		Optics and Spectroscopy	1562-6911	2016. – Vol. 121. – P. 758-764	https://link.springer.com/article/10.1134/S0030400X16110047	Scopus	18	22		Arkhipov M. V. Babushkin I., Rosanov N. N.
70	Radiation of a resonant medium excited by few-cycle optical pulses at superlu	Обзорная статья Q3		Laser Physics	1555-6611	2017. – Vol. 27. – №. 5. – P. 053001	https://iopscience.iop.org/article/10.1088/1555-6611/aa64b6/meta?casa_token=0MoqwTfnd0sAAAAA:jfoJJvKvxUW0	Scopus	22	22	11 печ.л, вклад 80%	Pakhomov A. V., Arkhipov M. V., Babushkin I., Tolmachev Yu. A., Rosanov N. N.

	minal velocity						SVs-y6ZkfpL7d7t16FkI8QPi12nCQ78ckvEyB2tzrM-1lj8F-b5cRLmmBt8Mm11C_gNlmOC_BqS1fvw					
71	On the emission of radiation by an isolated vibrating metallic mirror	статья Q3		Optics and Spectroscopy	1562-6911	2017. – Vol. 122. – P. 670-674	https://link.springer.com/article/10.1134/S0030400X1704004X	Scopus	23	22	5 печ.л., вклад 60%	Arkhipov M. V., Babushkin I., Pul'kin N. S., Rosanov N. N.
72	Emission of radiation by a resonance medium excited with a variable superluminal velocity	статья Q3		Optics and Spectroscopy	1562-6911	2017. – Vol. 122. – P. 768-773	https://link.springer.com/article/10.1134/S0030400X17050034	Scopus	24	22	6 печ.л., вклад 70%	Pakhomov A. V.
7	Nonline	Обзорна		Optics and	1562-	2017. – Vol.	https://link	Scopus	27	22	5 печ.л., вклад	Arkhipo

3	ar-photonics devices on the basis of the coherent interaction of optical radiation with resonant media (a review)	я статья Q3		Spectroscopy	6911	122. – P. 949-954	.springer.com/article/10.1134/S0030400X17060030				80%	v M. V., Pakhomov A. V., Babushkin I., Rosanov N. N.
74	On diagnostics of media using extremely short terahertz radiation pulses	статья Q3		Optics and Spectroscopy	1562-6911	– 2017. – Vol. 123. – P. 100-104	https://link.springer.com/article/10.1134/S0030400X17070219	Scopus	28	22	5 печ.л., вклад 70%	Rosanov N. N., Arkhipov M. V., Pakhomov A. V., Babushkin I. V.
75	Collisions of unipolar subcycle pulses in a nonline	статья Q3		Optics and Spectroscopy	1562-6911	2017. – Vol. 123. – P. 610-614	https://link.springer.com/article/10.1134/S0030400X17100046	Scopus	32	55	5 печ.л., вклад 80%	Arkhipov M. V., Pakhomov A. V., Babushkin I., Rosano

	ar resonantly absorbing medium											v N. N.
76	On the generation of extremely short light pulses in effectively one-dimensional schemes	статья Q3		Optics and Spectroscopy	1562-6911	2017. – Vol. 123. – P. 913-917	https://link.springer.com/article/10.1134/S0030400X17120116	Scopus	34	22	5 печ.л., вклад 80%	Pakhomov A. V.., Arkhipov M. V., Babushkin I., Rosanov N. N.
77	Generation of Extremely Short Pulses upon Excitation of a Resonant Medium by a Superluminal Light Spot	статья Q3		Optics and Spectroscopy	1562-6911	2018. – Vol. 124. – P. 536-540	https://link.springer.com/article/10.1134/S0030400X18040033	Scopus	35	22	5 печ.л., вклад 90%	Zhigulev a D. O., Pakhomov A. V., Arkhipov M. V., Babushkin I., Rosanov N. N.

78	Collisions of Single-Cycle and Subcycle Attosecond Light Pulses in a Nonlinear Resonant Medium	статья Q3		Optics and Spectroscopy	1562-6911	2018. – Vol. 124. – P. 541-548	https://link.springer.com/article/10.1134/S0030400X18040045	Scopus	36	55	Вклад 8 печ.л., вклад 90%	Arkhipov M. V., Pakhomov A. V., Zhigulева D. O., Rosanov N. N.
79	On the splitting of a subcycle pulse upon its coherent propagation in a resonant medium	статья Q3		Optics and Spectroscopy	1562-6911	2018. – Vol. 124. – P. 726-729	https://link.springer.com/article/10.1134/S0030400X18050028	Scopus	37	22	4 печ.л., вклад 80%	Rosanov N. N.
80	Population difference gratings	статья Q3		Optics and Spectroscopy	1562-6911	2018. – Vol. 125. – P. 586-589	https://link.springer.com/article/10.1134/S0030400X	Scopus	43	55	4 печ.л., вклад 80%	Pakhomov A. V., Arkhipov M.V.,

	induced in a resonant medium by a pair of short terahertz nonoverlapping pulses						18100041					Babushkin I., Rosanov N. N.
81	Extreme and topological nonlinear optics of open systems	Обзорная статья Q3		Optics and Spectroscopy	1562-6911	2019. – Vol. 127. – P. 77-87	https://link.springer.com/article/10.1134/S0030400X19070221	Scopus	48	22	10 печ.л., вклад 40%	Rosanov N. N., Arkhipov M. V., Arkhipov R. M., Vereteno v N. A., Pakhomov A. V., Fedorov S. V.
82	Mode Locking in Lasers due to Self-Induced Transparency: New	статья Q3		Bulletin of the Russian Academy of Sciences: Physics	1934-9432	2020. – Vol. 84. – P. 23-26	https://link.springer.com/article/10.3103/S1062873820010049	Scopus	52	19,65	5 печ.л., вклад 80%	Arkhipov M. V., Shimko A. A., Babushkin I, Rosanov N. N.

	Theoretical and Experimental Results											
83	Generation of an Attosecond Pulse in Helium Excited by Half-Cycle X-Ray Pulses	статья Q3		Optics and Spectroscopy	1562-6911	2020. – Vol. 128. – P. 529-535	https://link.springer.com/article/10.1134/S0030400X20040025	Scopus	53	22	7 печ.л., вклад 90%	Arkhipov M. V., Babushkin I., Pakhomov A. V., Rosanov N. N.
84	Generation of an attosecond pulse based on collective spontaneous emission of a layer of three-level atoms excited	статья Q3		Optics and Spectroscopy	1562-6911	2020. – Vol. 128. – №. 11. – P. 1723-1731	https://link.springer.com/article/10.1134/S0030400X20110028	Scopus	54	22	9 печ.л., вклад 90%	Arkhipov M. V., Babushkin I., Pakhomov A. V., Rosanov N. N

	by a pair of unipolar pulses											
85	On some new possibilities for controlling quantum systems using unipolar extremely short pulses	Статья Q3		Optics and Spectroscopy	1562-6911	2020. – Vol. 128. – P. 102-105	https://link.springer.com/article/10.1134/S0030400X2001004X	Scopus	56	22	4 печ.л., вклад 80%	Arkhipov M. V., Pakhomov A. V., Rosanov N. N.
86	Interaction of a rectangular unipolar pulse with a two-level resonant medium	Статья Q3		Optics and Spectroscopy	1562-6911	2020. – Vol. 128. – P. 630-634	https://link.springer.com/article/10.1134/S0030400X20050045	Scopus	58	22	5 печ.л., вклад 90%	Rosanov N. N.
87	Unipolar light: existence,	Обзорная статья Q3		Quantum Electronics	1468-4799	2020. – Vol. 50. – №. 9. – P. 801	https://iopscience.iop.org/article/10.1070/	Scopus	65	10	15 печ.л., вклад 70%	Arkhipov M. V., Rosanov N. N.

	generation, propagation, and impact on microobjects						QEL17348/meta?casa_token=TzWCcYt-jR4AAAAA:1mdI9XN_v3uNOBpF0ElRvqui31rzsK2i0DHT47qhQhZr5kdUpwfeK2U_JanOSYuAblgSIykMCAnZ4HDN5gMqVsIkTg					
88	Population Gratings Created by a Pair of Unipolar Attosecond Pulses in a Three-Level Atomic Medium	статья Q3		Optics and Spectroscopy	1562-6911	2020. – Vol. 128. – P. 1865-1869	https://link.springer.com/article/10.1134/S0030400X2011003X	Scopus	66	18	5 печ.л., вклад 100%	-

89	Selective Excitation and Creation of Population Inversion in Quantum Systems Using Unipolar Attosecond and Terahertz Pulses	статья Q3		Optics and Spectroscopy	1562-6911	2021. – Vol. 129. – P. 120-126	https://link.springer.com/article/10.1134/S0030400X20120863	Scopus	67	18	7 печ.л., вклад 80%	Arkhipov M. V., Pakhomov A. V., Zhukova M. O., Tsypkin A. N., Rosanov N. N.
90	Generation of isolated attosecond pulses with large electric area in a dense resonant medium	статья Q3		Optics and Spectroscopy	1562-6911	2022. – Vol. 130. – №. 13. – P. 2020-2025	https://journals.ioffe.ru/articles/53984	Scopus+	68	20	6 печ.л., вклад 80%	Arkhipov R. M., Arkhipov M. V., Fedorov S. V., Rosanov N. N.
9	Generat	статья		Optics and	1562-	2021. – Vol.	https://link	Scopus	72	22	8 печ.л., аклад	Rosano

1	ion of Extremely Short Pulses of Terahertz Radiation Based on Superradiation of a Three-Level Resonant Medium	Q3		Spectroscopy	6911	129. – №. 3. – P. 289–296	.springer.com/article/10.1134/S0030400X21030036				80%	v N. N.
92	Creation of Population Gratings in a Gas of Hydrogen Atoms Using Ultraviolet Attosecond Pulses	статья Q3		Optics and Spectroscopy	1562-6911	2021. – Vol. 129. – №. 6. – P. 605–611	https://link.springer.com/article/10.1134/S0030400X21050039	Scopus	76	18	7 печ.л., вклад 80%	Arkhipov M. V., Pakhomov A. V., Artem'ev Y. M., Rosanov N. N.

93	Time integration and differentiation of unipolar pulses of unusual shape	статья Q3		Quantum Electronics	1468-4799	2021. – Vol. 51. – №. 11. – P. 1000-1003	https://iopscience.iop.org/article/10.1070/QEL17642/meta?casa_token=qgKNOvmXYuYAAAAA:bDXhEOLxeaN1CP_FvkcSJHNXh8CbXK2MbCh06lDIKiiHsK1_GzGFzk_qEUa4AvaOuR73-RRLTuPWU7l31CLmkVdmvw	Scopus	83	21	4 печ.л. вклад 80%	Pakhomov A. V., Arkhipov R. M., Arkhipov M. V., Rosanov N. N.
94	Dissipative aspects of extreme nonlinear optics	Обзорная статья Q3		Quantum Electronics	1468-4799	2021. – Vol. 51. – №. 11. – P. 959-969	https://iopscience.iop.org/article/10.1070/QEL17637/meta?casa_token=HKk2np8N7JUAAAAA:a1ruLvNb9NO1spgPrYnRFHkHsVEAv650_	Scopus	84	21	11 печ.л., вклад 30%	Rosanov N. N., Aleksandrov I. A., Arkhipov M. V., Babushkin I., Vereteno v N. A., Dadeko

							DQ1JvNQMhGSgDUHKxA_AQJan_8hOWYcMMp7LLNHXl0KVGiKk1XSqerUSQ					A. V., Tumakov D. A., Fedorov S. V.
95	Obtaining Unipolar Pulses at Far Field Zone of the Source	статья Q3		Optics and Spectroscopy	1562-6911	2021. – Vol. 129. – №. 11. – P. 1193–1195	https://link.springer.com/article/10.1134/S0030400X21090034	Scopus	85	22	3 печ.л., вклад 70%	Arkhipov M. V., Arkhipov R. M., Rosanov N. N.
96	Control of the properties of nanostructures using few-cycle pulses	статья Q3		Quantum Electonics	0368-7147	2022. – Vol. 52. – №. 7. – P. 610-614	https://www.mathnet.ru/php/archive.phtml?wshow=paper&jrnid=qe&paperid=18089&option_lang=eng	Scopus	88	20	5 печ.л., вклад 80%	Arkhipov M. V., Pakhomov A. V., Rosanov N. N.
97	Half-cycle and unipolar pulses (Topical	Обзорная статья Q3		Laser Physics Letters	1612-202X	2022. – Vol. 19. – №. 4. – P. 043001	https://iopscience.iop.org/article/10.1088/1612-202X/ac5522/meta	Scopus	90	45	5 печ.л., вклад 80%	Arkhipov M., Pakhomov A., Babushkin I., Rosano

	Review)											v N.
98	Interference of areas of subcycle light pulses	статья Q3		Laser Physics	1555-6611	2022. – Vol. 32. – №. 6. – P. 066002	https://iopscience.iop.org/article/10.1088/1555-6611/ac6ace/meta	Scopus	92	12	5 печ.л., вклад 80%	Arkhipov M., Pakhomov A., Rosanov N.
99	Nonharmonic Spatial Population Difference Structures Created by Unipolar Rectangular Pulses in a Resonant Medium	статья Q4		Optics and Spectroscopy	1562-6911	2022.– Vol.130. – №11. – P.1443	https://journals.ioffe.ru/articles/55103	Scopus	96	56	7 печ.л., вклад 80%	Arkhipov M. V., Pakhomov A. V., Dyachkova O. O., Rosanov N. N.
100	Coherent control and creation of	статья Q4		Optics and Spectroscopy	1562-6911	2022. – Vol. 130. – №. 6. –P. 772	https://journals.ioffe.ru/articles/54715	Scopus	97	55	5 печ.л., вклад 80%	Belov P.A., Arkhipov M.V., Pakhomov

	population gratings for a pair of attosecond pulses in a resonant medium based on one-dimensional rectangular quantum wells											A.V., Rosanov N.N.
101	Unipolar and Subcycle Extremely Short Pulses: Recent Results and Prospects (Brief Review)	Обзорная статья, Q3		JETP Letters	1090-6487	2023. – Vol. 117. – №. 1. – P. 8	https://link.springer.com/article/10.1134/S0021364022602652	Scopus	98	12		Arkhipov M. V., Pakhomov A. V., Obraztsov P. A., Rosanov N. N.
1	Populat	статья.		Laser Physics	1555-6611	2023. – V.	https://iop	Scopus	100	55	56 печ.л.,	Diachk

02	ion density gratings produced by a pair of nonharmonic unipolar rectangular attosecond pulses in a resonant medium	Q3				33. – №. 4. – P. 045301.	science.iop.org/article/10.1088/1555-6611/acc02b/meta				вклад 80%	ova O. O., Arkhipov M. V., Pakhomov A. V., Rosanov N. N.
103	Peculiarities of polarization waves behavior under excitation of an extended resonant medium by overlapping extremely short	статья Q4		Optics and Spectroscopy	1562-6911	2022. – Vol. 130. – №. 9. – P.1121	https://journals.ioffe.ru/articles/54831	Scopus	104	22	5 печ.л., вклад 90%	Arkhipov M. V., Rosanov N. N.

	light pulses											
104	Radiation of a Solitary Polarization Pulse Moving at the Speed of Light	статья Q3		JETP Letters	1090-6487	2023. – V.117. – №. 8. – P. 574-582	https://link.springer.com/article/10.1134/S0021364023600763	Scopus	107	22	9 печ.л., 80%	Arkhipov M.V., Pakhomov A. V., Diachkova O. O., Rosanov N. N.
105	Peculiarities of Excitation of a Particle in a Single-Level Quantum Well by an Extremely Short Attosecond Pulse	статья Q4		Optics and Spectroscopy.	1562-6911	2023. – Vol. 131. – №. 1. – P. 69	https://journals.ioffe.ru/articles/55519	Scopus	108	12,52	4 печ.л., вклад 70%	Arkhipov M. V., Belov P.A., Pakhomov A. V., Diachkova O. O., Rosanov N. N.
106	Superradiance of a Stopped Polarization Pulse in	статья Q4		Optics and Spectroscopy.	1562-6911	2023. – Vol. 131. – №.1. – P. 73	https://journals.ioffe.ru/articles/55520	Scopus	109	22	7 печ.л., 70% вклад	Pakhomov A. V., Arkhipov M. V., Rosanov N. N.

	a Thin Layer of a Five-Level Medium Excited by Subcycle Attosecond Pulses											
107	Interference of the Electric and Envelope Areas of Ultrashort Light Pulses in Quantum Systems	Обзорная статья Q4		Radiophysics and Quantum Electronics	1573-9120	2023. – Vol. 66. – №. 4. – P.286-303	https://link.springer.com/article/10.1007/s11141-024-10295-x	Scopus	111	12	8 печ.л., вклад 80%	Arkhipov M.V., Pakhomov A.V., Diachkova O.O., Rosanov N.N
108	Frequency Locking of the Titaniu	Статья Q4		Journal of Applied Spectroscopy United States		2023. – V. 90. – №. 2. – P. 251-256	https://link.springer.com/article/10.1007/s10812-	Scopus	114	65	6 стр., вклад 60%	Arkhipov M. V., Shimko A. A., Rozano

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Вышеуказанные публикации прилагаются на электронном носителе.

/ / Архипов Р.М./

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