

## СПИСОК

публикаций, в которых излагаются основные научные результаты диссертации  
на соискание ученой степени доктора физико-математических наук

по научной специальности 1.3.1. Физика космоса, астрономия на тему: *Кинетическое и МГД моделирование процессов в бесстолкновительной гелиосферной плазме, опубликованных в рецензируемых изданиях*

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№ п/п	Название публикации на языке оригинала (при иноязычном названии – перевод на англ. / русс. яз.)	Тип публикации	DOI	Наименование издания	ISSN издания	Выходные данные публикации (Номер тома, Номер части тома, Номер журнала, Страницы размещения публикации в журнале, Год)	Интернет - адрес публикации в журнале	Библиографическая база данных (eLIBRARY, Web of Science, Scopus и др.), в которой индексируется публикация	№ публикации в списке литературы диссертации	№ страницы диссертации, на которой приводится ссылка на публикацию	Объем публикации (печ.л/авт.л, личн. вклад)*	Соавторы
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Energy Conversion by Magnetic Reconnection in Multiple Ion Temperature Plasmas	статья в Q1	<a href="https://doi.org/10.1029/2023GL103324">10.1029/2023GL103324</a>	<i>Geophysical Research Letters</i>	0094-8276, 1944-8007	Volume 50, Issue 12, 26.06. 2023 e2023GL103324	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2023GL103324">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2023GL103324</a>	eLIBRARY, Web of Science, Scopus	A41	24	0.6/0.2	J. Dargent, S. Toledo-Redondo, M. E. Innocenti

2	Cold ion crescent echoes in the exhaust of symmetric magnetic reconnection	статья Q3	В 10.1063/5.0155958	Physics of Plasmas	1070-664X, 1089-7674	Vol. 30, 062901 (2023)	<a href="https://pubs.aip.org/aip/pop/article-abstract/30/6/062901/2899764/Cold-ion-crescent-echoes-in-the-exhaust-of">https://pubs.aip.org/aip/pop/article-abstract/30/6/062901/2899764/Cold-ion-crescent-echoes-in-the-exhaust-of</a>	eLIBRARY, Web of Science, Scopus	A42	16, 24	1.1/1.0	I. Zaitsev, I. Paramonik, V. Semenov, D. Korovinskiy, A. Mao, J. P. Dargent, S. Toledo-Redondo, J. Deca
3	Laboratory modelling of solar wind interaction with Lunar Magnetic Anomalies	Статья Q4	В 10.1134/S1063772923010079	Astronomy Reports	1063-7729, 1562-6881	Vol. 67, N. 1, стр. 78-85 (2023)	<a href="https://link.springer.com/article/10.1134/S1063772923010079">https://link.springer.com/article/10.1134/S1063772923010079</a>	eLIBRARY, Web of Science, Scopus	A40	19, 25	0.8/0.2	Rumenskiy, MC and Chibrano, AA Shaikhislamov и др.
4	The Plasma Environment of Comet 67P/Churyumov-Gerasimenko	статья Q1	В 10.1007/s11214-022-00931-1	Space Science Reviews	0038-6308, 1572-9672	Vol. 218. № 65., 2022	<a href="https://link.springer.com/article/10.1007/s11214-022-00931-1">https://link.springer.com/article/10.1007/s11214-022-00931-1</a>	eLIBRARY, Web of Science, Scopus	A39	22, 25	6/0.5	C. Goetz, E. Behar, A. Beth, D. Bodewits, S. Bromley, J. Burch, J. Deca, A. Eriksson, P. D. Feldman, M.

												Galand, H. Gunell, P. Henri, K. Heritier, G. H. Jones, K. E. Mandt, H. Nilsson, J. W. Noonan, E. Odelstad, J. W. Parker, M. Rubin, C. S. Wedlund, P. Stephenson, M. G. G. T. Taylor, E. Vigren, S. K. Vines & M. Volwerk
5	Direct observations of anomalous resistivity and diffusion in collisionless plasma	статья в Q1	10.1038/s41467-022-30561-8	Nature Communications	2041-1723	Vol. 13. Issue 1, 2022	<a href="https://www.nature.com/articles/s41467-022-30561-8">https://www.nature.com/articles/s41467-022-30561-8</a>	eLIBRARY, Web of Science, Scopus	A38	14, 24	0.85/0.1 проведение трехмерных вычислений магнитного пересоединения	D. B. Graham, Yu. V. Khotyaintsev, M. André, A. Vaivads, J. F. Drake, C. Norgren, O. Le Contel, P.-



												A. Lindqvist, A. C. Rager, D. J. Gershman, C. T. Russell, J. L. Burch, K.-J. Hwang & K. Dokgo
6	Automated Classification of Plasma Regions Using 3D Particle Energy Distributions	статья Q2	в 10.1029/2021JA029620	<i>Journal of Geophysical Research: Space Physics</i>	2169-9380, 2169-9402	Volume 126, Issue 10, 2021	<a href="https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JA029620">https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JA029620</a>	eLIBRARY, Web of Science, Scopus	A35	12	1.0/0.2	V. Olshevsky, Yu. V. Khotyaintsev, A. Lalti, G. L. Delzanno, S. Anderzén, P. Herman, S. W. D. Chien, L. Avanov, A. P. Dimmock, S. Markidis
7	The Plasma Environment Surrounding the Reiner Gamma	статья Q2	в 10.1029/2021JA029180	<i>Journal of Geophysical Research: Space Physics</i>	2169-9380, 2169-9402	Volume 126, Issue 9, September 2021	<a href="https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JA029180">https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JA029180</a>	eLIBRARY, Web of Science, Scopus	A37	19, 20, 25	0.8/0.3	J. Deca, A. R. Poppe, B. Lembège

	Magnetic Anomaly											
8	The Inertia-Based Model for Reconstruction of the Electron Diffusion Region	статья Q2	В 10.1029/2020JA029045	<i>Journal of Geophysical Research: Space Physics</i>	2169-9380, 2169-9402	Volume 126, Issue 5, May 2021	<a href="https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2020JA029045">https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2020JA029045</a>	eLIBRARY, Web of Science, Scopus	A34	12, 24	1.3/0.4	D. B. Korovinskiy; S. A. Kiehas; E. V. Panov; V. S. Semenov; N. V. Erkaev; I. V. Kubyshkin
9	Cold ion energization at separatrixes during magnetic reconnection	статья Q3	В 10.1063/5.0008118	<i>Physics Plasmas</i>	1070-664X, 1089-7674	Volume 28, Issue 3, 2021	<a href="https://aip.scitation.org/doi/10.1063/5.0008118">https://aip.scitation.org/doi/10.1063/5.0008118</a>	eLIBRARY, Web of Science, Scopus	A36	16, 17, 24	1.1/0.8	I. Zaitsev; V. Semenov; I. Kubyshkin; D. Korovinskiy; J. Deca; Yu. Khotyaintsev; S. Markidis
10	Grad-Shafranov reconstruction of the magnetic configuration in the reconnection X-point vicinity in	статья Q3	В 10.1063/5.0015240	<i>Physics Plasmas</i>	1070-664X, 1089-7674	Vol. 27, N. 082905, 2020	<a href="https://aip.scitation.org/doi/10.1063/5.0015240">https://aip.scitation.org/doi/10.1063/5.0015240</a>	eLIBRARY, Web of Science, Scopus	A33	12, 24	0.6/0.2 постановка задачи моделирования, анализ полученных результатов, сравнение аналитической теорией	D. B. Korovinskiy, V. S. Semenov, N. V. Erkaev, S. A. Kiehas, and I. V. Kubyshkin

	compressible plasma											
11	Simulating the Reiner Gamma Swirl: The Long-Term Effect of Solar Wind Standoff	статья Q1	в 10.1029/2019JE006219	<i>Journal of Geophysical Research: Planets</i>	2169-9097, 2169-9100	Volume 125, Issue 5, May 2020, e2019JE006219	<a href="https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2019JE006219">https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2019JE006219</a>	eLIBRARY, Web of Science, Scopus	A32	19, 20, 25	0.9/0.2	J. Deca, D. J. Hemingway, C. Lue, A. R. Poppe, I. Garrick-Bethell, B. Lembège, M. Horányi
12	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection	статья Q1	в 10.1103/physrevlett.124.045101	<i>Physical Review Letters</i>	0031-9007, 1079-7114	Vol. 124, Iss. 4, 31 January 2020	<a href="https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.124.045101">https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.124.045101</a>	eLIBRARY, Web of Science, Scopus	A30	14, 24	0.4/0.1 проведение вычислений, интерпретация наблюдений спутников	Yu. V. Khotyaintsev, D. B. Graham, K. Steinvall, L. Alm, A. Vaivads, A. Johlander, C. Norgren, W. Li, H. S. Fu, K.-J. Hwang, J. L. Burch, N. Ahmadi, O. Le Contel,



												D. J. Gershman, C. T. Russell, and R. B. Torbert
13	A Fully Kinetic Perspective of Electron Acceleration around a Weakly Outgassing Comet	статья Q1	в 10.3847/2041-8213/ab6662	<i>The Astrophysical Journal</i>	1990-3413, 1990-3421	Vol. 889, Issue L33, 2020	<a href="https://iopscience.iop.org/article/10.3847/2041-8213/ab6662">https://iopscience.iop.org/article/10.3847/2041-8213/ab6662</a>	eLIBRARY, Web of Science, Scopus	A31	22, 25	0.6/0.6  Проведение численного моделирования, постановка задачи, интерпретация результатов	J. Deca, A. Eriksson, P. Henri, G. Lapenta, V. Olshevsky, S. Markidis
14	Electron trapping in the coma of a weakly outgassing comet	статья Q3	в 10.1063/1.5115456	<i>Physics of Plasmas</i>	1070-664X, 1089-7674	Vol. 26, no. 10 (2019): 102904	<a href="https://aip.scitation.org/doi/10.1063/1.5115456">https://aip.scitation.org/doi/10.1063/1.5115456</a>	eLIBRARY, Web of Science, Scopus	A29	22, 25	0.5/0.2  проведение модельных расчетов	CP Sishla, J. Deca, V. Olshevsky, S. Markidis
15	The transition from "double-gradient" to ballooning unstable mode in bent magnetotail-like current	статья Q3	в 10.1063/1.5119096	<i>Physics of Plasmas</i>	1070-664X, 1089-7674	Oct. 1; Vol. 26(10), (2019): 102901	<a href="https://aip.scitation.org/doi/abs/10.1063/1.5119096">https://aip.scitation.org/doi/abs/10.1063/1.5119096</a>	eLIBRARY, Web of Science, Scopus	A28	23, 25	1.5/0.5  проведение модельных расчетов и сравнение аналитической моделью токового слоя	D.B. Korovin, V. S. Semenov, N. V. Erkaev, I. B. Ivanov, S. A. Kiehas, S. Markidis

	sheet											
16	Building a Weakly Outgassing Comet from a Generalized Ohm's Law	статья Q1	в 10.1103/physrevlett.123.055101	Physical Review Letters	0031-9007, 1079-7114	Vol. 123, 055101 (2019)	<a href="https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.123.055101">https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.123.055101</a>	eLIBRARY, Web of Science, Scopus	A26	22, 25	0.6/0.3	J. Deca, P. Henri, A. Eriksson, M. Galand, A. Beth, K. Ostaszewski, M. Horányi
17	Inner and outer electron diffusion region of antiparallel collisionless reconnection: Density dependence	статья Q3	в <a href="https://doi.org/10.1063/1.5109368">https://doi.org/10.1063/1.5109368</a>	Physics of Plasmas	1070-664X, 1089-7674	Vol. 26, 102305 (2019)	<a href="https://aip.scitation.org/doi/10.1063/1.5109368">https://aip.scitation.org/doi/10.1063/1.5109368</a>	eLIBRARY, Web of Science, Scopus	A27	12, 24	1.1/0.9	V. Semenov, I. Zaitsev, D. Korovinskiy, J. Deca, G. Lapenta, V. Olshevsky, S. Markidis
18	Reiner Gamma albedo features reproduced by modeling solar wind standoff	статья Q1	в <a href="https://doi.org/10.1038/s42005-018-0012-9">https://doi.org/10.1038/s42005-018-0012-9</a>	Communication Physics	2399-3650	Comm Physics Vol. 1; 12 (2018)	<a href="https://www.nature.com/articles/s42005-018-0012-9">https://www.nature.com/articles/s42005-018-0012-9</a>	eLIBRARY, Web of Science, Scopus	A23	19, 20, 25	0.8/0.2	J. Deca, C. Lue, T. Ahmadi, M. Horányi



19	Electron Energization at a Reconnecting Magnetosheath Current Sheet	статья Q1	В <a href="https://doi.org/10.1029/2018GL078660">https://doi.org/10.1029/2018GL078660</a>	<i>Geophysical Research Letters</i>	0094-8276, 1944-8007	2018 Aug 28;45(16): 8081-90,	<a href="https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2018GL078660">https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2018GL078660</a>	eLIBRARY, Web of Science, Scopus	A24	14, 24	0.6/0.3	E. Eriksson, A. Vaivads, D.Graham, Yu. Khotyaintsev, E. Yordanova, M. André, B. Giles, C. Pollock, C. T. Russell, O. Le Contel, R. Torbert, R. Ergun, P.-A. Lindqvist, J. L. Burch
20	Detection of Magnetic Nulls around Reconnection Fronts	статья Q1	В <a href="https://doi.org/10.3847/1538-4357/aac496">https://doi.org/10.3847/1538-4357/aac496</a>	<i>Astrophysical Journal</i>	0004-637X, 1538-4357	Vol. 860(2), N. 128 (2018)	<a href="https://iopscience.iop.org/article/10.3847/1538-4357/aac496">https://iopscience.iop.org/article/10.3847/1538-4357/aac496</a>	eLIBRARY, Web of Science, Scopus	A25	24	1.0/0.1	C. M. Liu, H. S. Fu, D. Cao, Y. Xu
21	Electron and Ion Dynamics of the Solar Wind Interaction with a Weakly Outgassing Comet	статья Q1	В <a href="https://doi.org/10.1103/PhysRevLett.118.205101">10.1103/PhysRevLett.118.205101</a>	<i>Physical Review Letters</i>	0031-9007, 1079-7114	Vol. 118, N. 205101, (2017)	<a href="https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.118.205101">https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.118.205101</a>	eLIBRARY, Web of Science, Scopus	A22	22, 25	0.5/0.2	J. Deca, P. Henri, A. Eriksson, S. Markidis, V. Olshevsky, Mihály Horányi
22	Energy conversion at	статья Q1	В <a href="https://doi.org/10.1002/2016">10.1002/2016</a>	<i>Geophysical Research Letters</i>	0094-8276, 1944-8007	Vol 44.3, p. 1234-1242 (2017)	<a href="https://agupubs.onlinelibrary.wiley.com">https://agupubs.onlinelibrary.wiley.com</a>	eLIBRARY, Web of Science,	A21	13, 14, 24	0.6/0.2	Yu. Khotyaintsev, A. Vaivads, M. André, S.

	dipolarization fronts		GL071909				m/doi/full/10.1002/2016GL071909	Scopus				Markidis
23	Reflected charged particle populations around dipolar lunar magnetic anomalies	статья Q1	В 10.3847/0004-637X/829/2/60	<i>The Astrophysical Journal</i>	1990-3413, 1990-3421	Vol: 829, Iss: 2, Pages: 60-68, 1 Oct. 2016	<a href="https://iopscience.iop.org/article/10.3847/0004-637X/829/2/60">https://iopscience.iop.org/article/10.3847/0004-637X/829/2/60</a>	eLIBRARY, Web of Science, Scopus	A18	19, 20, 25	0.8/0.3	Jan Deca
24	Three-dimensional full-kinetic simulation of the solar wind interaction with a vertical dipolar lunar magnetic anomaly	статья Q1	В 10.1002/2016GL068535	<i>Geophys. Res. Lett.</i>	0094-8276, 1944-8007	Vol.:43, Iss.: 9, P.: 4136-4144 May, 16 2016 (2016)	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2016GL068535">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2016GL068535</a>	eLIBRARY, Web of Science, Scopus	A17	19, 20, 25	0.55/0.1	Deca, Jan, Wang, Xu, Lembege, Bertrand, Markidis, Stefano, Horanyi, Mihaly, Lapenta, Giovanni
25	A new model for the electron pressure nongyrotropy in the outer electron	статья Q1	В 10.1002/2016GL070763	<i>Geophys. Res. Lett.</i>	0094-8276, 1944-8007	Vol:43, Issue:20 pp.:10565-10573, OCT 28 (2016)	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2016GL070763">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2016GL070763</a>	eLIBRARY, Web of Science, Scopus	A19	12, 24	0.7/0.6	Semenov, V., Korovinskiy, D., Markidis, S., Deca, J., Olshevsky, V., Lapenta, G.

	diffusion region											
26	Three-scale structure of diffusion region in the presence of cold ions	статья Q2	В 10.1002/2016JA023606	<i>J. Geophys. Res.</i>	2169-9380, 2169-9402	Vol.:121, Iss.:12, pp.:12001-12013, (2016)	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2016JA023606">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2016JA023606</a>	eLIBRARY, Web of Science, Scopus	A20	16, 24	1.1/1.0	Khotyaintsev, Yu. V. ;Vaivads, A. ;Andre, M. ;Toledo-Redondo, S. ;Markidis, S. ;Lapenta, G.
27	MAGNETIC NULL POINTS IN KINETIC SIMULATIONS OF SPACE PLASMAS	статья Q1	В 10.1016/j.asr.2016.12.008	<i>The Astrophysical Journal</i>	1990-3413, 1990-3421	Vol.:819, iss.:1, doi:10.3847/0004-637X/819/1/52, MAR 1 2016	<a href="https://iopscience.iop.org/article/10.3847/0004-637X/819/1/52">https://iopscience.iop.org/article/10.3847/0004-637X/819/1/52</a>	eLIBRARY, Web of Science, Scopus	A16	20, 24, 25	1.2/0.3	Olshevsky, V. ; Deca, J.; Peng, I. Bo; Markidis, S.; Innocenti, M. E.;Cazzola, E.; Lapenta, G.
28	Cold ion heating at the dayside magnetopause during magnetic reconnection	статья Q1	В 10.1002/2015GL067187	<i>Geophysical Research Letters</i>	0094-8276, 1944-8007	Vol.:43, Iss.:1, pp:58-66, JAN 16 (2016)	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2015GL067187">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2015GL067187</a>	eLIBRARY, Web of Science, Scopus	A14	16, 24	0.7/0.1	Toledo-Redondo, S. ;Andre, M. ;Vaivads, A. ;Khotyaintsev, Yu. V. ;Lavraud, B. ;Graham, D. B. ;Aunai, N.
29	Cold ion demagnetization	статья	В 10.1002/2016	<i>Geophysical</i>	0094-8276,	Vol.:43, Iss.:13, pp:6759 - 6767,	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2016GL067187">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2016GL067187</a>	eLIBRARY, Web of Science, Scopus	A15	16, 24	0.6/0.1	Toledo-Redondo,



	tization near the X-line of magnetic reconnection	Q1	GL069877	<i>Research Letters</i>	1944-8007	(2016)	rary.wiley.com/doi/full/10.1002/2016GL069877	Scopus					Sergio ;Andre, M.; Khotyaintsev, Yu. V. ; Vaivads, A.; Walsh, A.; Li, W.; Graham, D. B. Lavraud, B.; Masson, A.; Aunai, N.; Darge nt, J.
30	Energetic particles in magnetotail reconnection	статья в Q2	10.1017/S0022377814001123	<i>Journal of Plasma Physics</i>	0022-3778, 1469-7807	Vol. 81(2), 325810202 (2015)	<a href="https://www.cambridge.org/core/journals/journal-of-plasma-physics/article/energetic-particles-in-magnetotail-reconnection/C215DBA94B2F5FE8CFB48073DEC94F3C">https://www.cambridge.org/core/journals/journal-of-plasma-physics/article/energetic-particles-in-magnetotail-reconnection/C215DBA94B2F5FE8CFB48073DEC94F3C</a>	eLIBRARY, Web of Science, Scopus	A9	13, 24	0.6/0.2	Peng, Ivy Bo; Vencels, J.; Lapenta, G., Vaivads, A.; Laure, E.; Markidis, S.	
31	ENERGY DISSIPATION IN MAGNETIC NULL POINTS AT KINETIC SCALES	статья в Q1	10.1088/0004-637X/807/2/155	<i>Astrophysical Journal</i>	0004-637X, 1538-4357	Volume Number 807, 2 (2015)	<a href="https://iopscience.iop.org/article/10.1088/0004-637X/807/2/155">https://iopscience.iop.org/article/10.1088/0004-637X/807/2/155</a>	eLIBRARY, Web of Science, Scopus	A10	13	1.0/0.3	Olshevsky, V.; Eriksson, E.; Markidis, S.; Lapenta, G.	

32	Evolution of the lower hybrid drift instability at reconnection jet front	статья Q2	В 10.1002/2014JA020503	<i>Journal of Geophysical Research-Space Physics</i>	2169-9380, 2169-9402	Volume 120, Issue 4, pp. 2675-2690 April 2015	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014JA020503">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014JA020503</a>	eLIBRARY, Web of Science, Scopus	A8	14, 24	1.1/0.9	Khotyaintsev, Yu. V.; Vaivads, A.; Andre, M.; Markidis, S.; Lapenta, G.
33	General mechanism and dynamics of the solar wind interaction with lunar magnetic anomalies from 3-D particle-in-cell simulations	статья Q2	В 10.1002/2015JA021070	<i>Journal of Geophysical Research-Space Physics</i>	2169-9380, 2169-9402	Volume 120, Issue 8, Pages 6443-6463 August 2015	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2015JA021070">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2015JA021070</a>	eLIBRARY, Web of Science, Scopus	A11	19, 20, 25	1.5/0.5	Deca, J.; Lembege, B.; Horanyi, M.; Markidis, S.; Lapenta, G.
34	Lower hybrid drift instability at a dipolarization front	статья Q2	В 10.1002/2014JA020528	<i>Journal of Geophysical Research-Space Physics</i>	2169-9380, 2169-9402	Volume 120, Issue 2, Pages 1124-1132 February 2015	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014JA020528">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014JA020528</a>	eLIBRARY, Web of Science, Scopus	A12	14, 24	0.6/0.5	Yu. V. Khotyaintsev, A. Vaivads, M. André

35	Role of Z-pinches in magnetic reconnection in space plasmas	статья Q2	В 10.1017/S0022377814000725	<i>Journal of Plasma Physics</i>	0022-3778, 1469-7807	Vol. 81(1), 325810105 (2015)	<a href="https://www.cambridge.org/core/journals/journal-of-plasma-physics/article/abs/role-of-zpinches-in-magnetic-reconnection-in-space-plasmas/2292C53A41E958AB27B9BF299899F45B">https://www.cambridge.org/core/journals/journal-of-plasma-physics/article/abs/role-of-zpinches-in-magnetic-reconnection-in-space-plasmas/2292C53A41E958AB27B9BF299899F45B</a>	eLIBRARY, Web of Science, Scopus	A6	13	0.6/0.2	Olshevsky, Vyacheslav; Lapenta, Giovanni; Markidis, Stefano;
36	Separatrices: The crux of reconnection	статья Q2	В 10.1017/S0022377814000944	<i>Journal of Plasma Physics</i>	0022-3778, 1469-7807	Vol. 81(1), 325810109 (2015)	<a href="https://www.cambridge.org/core/journals/journal-of-plasma-physics/article/abs/separatrices-the-crux-of-reconnection/6A16A351B1F595C4D000404D4EFE09E7">https://www.cambridge.org/core/journals/journal-of-plasma-physics/article/abs/separatrices-the-crux-of-reconnection/6A16A351B1F595C4D000404D4EFE09E7</a>	eLIBRARY, Web of Science, Scopus	A13	14, 24	1.7/0.3	Giovanni Lapenta, Stefano Markidis, David Newman, Martin Goldman
37	The double-gradient magnetic instability:	статья Q3	В 10.1063/1.4905706	<i>Physica Plasmas</i>	of 1070-664X, 1089-7674	volume 22, number 1, pages 012904	<a href="https://aip.scitation.org/doi/10.1063/1.4905706">https://aip.scitation.org/doi/10.1063/1.4905706</a>	eLIBRARY, Web of Science, Scopus	A7	23, 25	1.1/0.3	Korovin, D. B. Erkaev, N. V.; Semenov,



	Stabilizing effect of the guide field					year 2015						V. S.; Artemyev, A. V.; Ivanova, V. V.; Ivanov, I. B.; Lapenta, G.; Markidis, S.; Biernat, H. K.
38	Electromagnetic energy conversion in downstream fronts from three dimensional kinetic reconnection	статья Q3	В 10.1063/1.4872028	Physics of Plasmas	of 1070-664X, 1089-7674	volume number 5 pages 055702 year 2014	21 <a href="https://aip.scitation.org/doi/10.1063/1.4872028">https://aip.scitation.org/doi/10.1063/1.4872028</a>	eLIBRARY, Web of Science, Scopus	A5	13, 14, 24	0.9/0.2	Lapenta, G., Goldman, M., Newman, D., Markidis, S.
39 +	Electromagnetic Particle-in-Cell Simulations of the Solar Wind Interaction with	статья Q1	В 10.1103/PhysRevLett.112.151102	Physical Review Letters	0031-9007, 1079-7114	volume = {112}, issue = {15}, pages {151102}, (2014)	<a href="https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.112.151102">https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.112.151102</a>	eLIBRARY, Web of Science, Scopus	A4	24	0.4/0.2	Deca, J.; Lapenta, G.; Lembege, B.; Markidis, S.; Horanyi, M.

	Lunar Magnetic Anomalies											
40	Formation of a transient front structure near reconnection point in 3-D PIC simulations	статья Q2	в 10.1002/jgra.50136	<i>Journal of Geophysical Research-Space Physics</i>	of 2169-9380, 2169-9402	Volume 118, Issue 4 Pages 1435-1449 April 2013	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/jgra.50136">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/jgra.50136</a>	eLIBRARY, Web of Science, Scopus	A2	14, 24	1.0/0.2	Vapirev, A. E.; Lapenta, G.; Markidis, S.; Henri, P.; Goldman, M.; Newman, D.
41	Kinetic simulations of plasmoid chain dynamics	статья Q3	в 10.1063/1.4817286	<i>Physics Plasmas</i>	of 1070-664X, 1089-7674	volume = {20}, number = {8}, pages = {082105}, year = {2013}	<a href="https://aip.scitation.org/doi/10.1063/1.4817286">https://aip.scitation.org/doi/10.1063/1.4817286</a>	eLIBRARY, Web of Science, Scopus	A3	14, 24	0.7/0.1	S. Markidis, P. Henri, G. Lapenta, M. Goldman, D. Newman, and E. Laure
42	MHD modeling of the double-gradient (kink) magnetic instability	статья Q2	в 10.1002/jgra.50206	<i>Journal of Geophysical Research-Space Physics</i>	of 2169-9380, 2169-9402	Volume 118, Issue 3 Pages 1146-1158 March 2013	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/jgra.50206">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/jgra.50206</a>	eLIBRARY, Web of Science, Scopus	A1	23, 25	1.3/0.5	Korovinskiy, D. B.; Erkaev, N. V.; Ivanova, V. V.; Ivanov, I. B.; Semenov, V. S.; Lapenta,

