

PERSONAL INFORMATION

Evgeny Filippov



📍 ELI NP/ IFIN HH – Extreme Light Infrastructure - Nuclear Physics, Bucharest, Magurele, Romania.



H-index: 12

WORK EXPERIENCE

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| <p>July 2025 – on time</p> | <p>Physicist</p> <p>ELI NP/ IFIN HH – Extreme Light Infrastructure - Nuclear Physics, Bucharest, Magurele, Romania.
 Address: No. 30, Reactorului Street, Magurele, Ilfov, Romania (077125)
 Web: https://www.eli-np.ro/</p> <ul style="list-style-type: none"> • Postdoctoral position. Experiments on laser-matter interactions, operations with high power laser systems. |
| <p>October 2023 – June 2025</p> | <ul style="list-style-type: none"> • Scientist • CLPU – Spanish Center for Pulsed Lasers. Address: C/Adaja, 8, 37185 Villamayor, Salamanca, Spain. Web: https://www.clpu.es/ • Ion and x-ray spectroscopy, coordination of experiments, laboratory astrophysics, ICF and particle acceleration experiments, radioisotope production. Absolute Calibrations for High Repetition Rate Detector Systems at the CLPU. Experiments on laser-matter interactions. Ion and x-ray spectroscopy. |
| <p>September 2018 – September 2023</p> | <ul style="list-style-type: none"> • Senior Researcher • JIHT RAS – Joint Institute for High Temperatures of the Russian Academy of Sciences, Address: Izhorskaya str., 13, Str. 2, Moscow, 125412, Russia. Web: https://www.jiht.ru/ • Experimental studies in laboratory astrophysics and ICF, HEDP, and technological applications. Generation of shocks, instabilities, particle acceleration in a strong external magnetic field. X-ray and optical diagnostics: spectroscopy, radiography, imaging, SOP, diffractometry, interferometry, monochromators, VISAR. Design of diagnostical components and equipment. |
| <p>November 2019 – November 2022</p> | <ul style="list-style-type: none"> • Research Fellowship of Russian Foundation for Basic Research • Institute of Applied Physics of the Russian Academy of Sciences. Address: 6 Ul'yanov Street, 603950, Nizhny Novgorod, Russia. Web: https://www.ipfran.ru/ • Ion and x-ray spectroscopy, coordination of experiments, laboratory astrophysics, ICF and particle acceleration experiments, radioisotope production. Absolute Calibrations for High Repetition Rate Detector Systems at the CLPU. Experiments on laser-matter interactions. Ion and x-ray spectroscopy. |
| <p>September 2015 – September 2018</p> | <ul style="list-style-type: none"> • Junior Researcher • JIHT RAS – Joint Institute for High Temperatures of the Russian Academy of Sciences, Address: Izhorskaya str., 13, Str. 2, Moscow, 125412, Russia. Web: https://www.jiht.ru/ • Experimental studies in laboratory astrophysics and ICF, HEDP, and technological applications. X-ray and optical diagnostics: spectroscopy, radiography, imaging, SOP, interferometry. Design of diagnostical components and equipment. |
| <p>October 2010 – June 2018</p> | <ul style="list-style-type: none"> • Engineer/laboratory assistant • NRNU MEPhI – National Research Nuclear University "MEPhI". Address: 115409, Russian Federation, Moscow, Kashirskoe shosse, 31. Web: https://www.mephi.ru/ • Experiments on micropinch installation and in laser-matter interactions. Providing shadowgraphy /interferometry diagnostics, probing with N2O non-visible lasers. |

EDUCATION AND
TRAINING

2014 – 2018	PhD / Plasma Physics • NRNU MEPhI – National Research Nuclear University “MEPhI”. Address: 115409, Russian Federation, Moscow, Kashirskoe shosse, 31. • PhD thesis “X-ray diagnostics of supersonic laser-induced plasma flows with astrophysical similarity”. Supervisors – Pikuz S.A./Skobelev I.Yu.
2012 – 2014	M.Sc. Applied Physics / Plasma Physics • NRNU MEPhI – National Research Nuclear University “MEPhI”. Address: 115409, Russian Federation, Moscow, Kashirskoe shosse, 31. • Plasma Physics department
2018 – 2012	B.Sc. Applied Physics / Plasma Physics • NRNU MEPhI – National Research Nuclear University “MEPhI”. Address: 115409, Russian Federation, Moscow, Kashirskoe shosse, 31. • Plasma Physics department

PERSONAL SKILLS

Mother tongue(s)	Russian
Other language(s)	English (C1-C2), French (A1-A2)

Communication skills	• Good communication skills gained through collaborations with researchers and participation in conferences and scientific projects. • Public speaking skills through invited lectures, personal oral reports for the projects involved in, coordination of the experiments, leading a student association in NRNU MEPhI
Organisational / managerial skills	• Leadership - Chairman of Student Science Society in NRNU MEPhI 2014-2015. Manager and main principal organisator of “II international conference Plasma, Laser researches and technologies” in NRNU MEPhI, January 2016, Moscow – scientific director of the conference and book of abstracts. Coordinator of several experimental campaigns at CLPU/ GSI/ PALS laser facilities. PostDoc Fellowship by Russian Foundation for Basic Research in 2019-2022. Winner of postdoctoral fellowship programme MERIT supported by the HORIZON EUROPE and MSCA-COFUND grant with the topic “Ultra-relativistic laser plasma as a few MeV ion source of extreme fluxes for Fusion Energy” (2024, not taken). • Administration and management – Member of the scholarship committee of the faculty “Experimental and Theoretical Physics” in NRNU MEPhI in 2012-2015. JIHT RAS council of young scientists. Member of PROBONO COST, WG2. • Adaptability and time management – through participation in various scientific events and leading projects • Responsibility – Participation in the EUROFUSION Enabling Research Projects: AWP17-ENR-IFE-CEA-01 “Preparation and Realization of European Shock Ignition” and “Advancing shock ignition for direct-drive inertial fusion”. Participation in projects supported by RFBR, RSF, National Center for Physics and Mathematics, RAS Presidium Program for Basic Research and other granting funds. • Supervising: 2 undergraduate students
Job-related skills	• Spectroscopy (X-ray, ion and electrons). Experimental and theoretical work during campaigns. • Imaging, shadowgraphy, radiography and other methods of plasma visualization. • X-ray diffractometry through managing and commissioning of RIGAKU Smartlab in JIHT RAS • Understanding mechanisms occurred in laser-induced plasma – electron and ion acceleration, ICF, laboratory astrophysics, plasma instabilities, shocks, etc. • Preparation of scientific articles and reports. Number of publications: >40. H-index: = 12. • Article reviewer in journals

	• Data analysis
Digital competence	• Digital data analysis by Python/Matlab, numerical radiative and hydrodynamic codes (PrismSPECT, FLYCHK, Helios), ray-tracing codes (OASYS, XOP, MCNP) • Statistical analysis, Machine learning-related approaches • Design of experiments and manufacture of elements (SolidWorks, Comsol Multiphysics, EagleCad, SpringLayout, Adobe Illustrator) • Good knowledge of office suite (word processor, spread sheet, presentation software) • Good knowledge of photo editing software gained as an amateur photographer
Other skills	• Critical thinking • Attention to details
Driving licence	B
ADDITIONAL INFORMATION	

Publications	MAJOR PUBLICATIONS :
Presentations	• [1] E.D. Filippov et.al., "Characterization of hot electrons generated by laser-plasma interaction at Shock Ignition intensities" // <i>Matter and Radiation at Extremes</i> 8, 065602 (2023)
Projects	• [2] E.D. Filippov et al., «Enhanced x-ray emission arising from laserplasma confinement by a strong transverse magnetic field» // <i>Scientific Reports</i> 11, 8180 (2021)
Conferences	• [3] E.D. Filippov et.al., "X-ray spectroscopy evidence for plasma shell formation in experiments modeling accretion columns in young stars" // <i>Matter and Radiation at Extremes</i> 4, 064402 (2019)
Seminars	• [4] W. Yao, A. Fazzini, E.D. Filippov et al. "Laboratory evidence for proton energization by collisionless shock surfing" // <i>Nature Physics</i> 17, 1177–1182 (2021)
Honours and awards	• [5] G. Revet, B. Khair, E. Filippov et al. "Laboratory disruption of scaled astrophysical outflows by a misaligned magnetic field" // <i>Nature Communications</i> 12, 762 (2021)
Memberships	• [6] S. Bolanos, A. Sladkov, E. Filippov et.al. "Laboratory evidence of magnetic reconnection hampered in obliquely interacting flux tubes" // <i>Nature Communications</i> 13:6426 (2022) (IF= 17.694)
References	• [7] G. Revet et.al., "Laboratory unravelling of matter accretion in young stars" // <i>Science Advances</i> 3, 11 (2017)
Citations	• [8] B. Khair et. al., "Laser-produced magnetic-Rayleigh-Taylor unstable plasma slabs in a 20T magnetic field" // <i>Physical Review Letters</i> 123, 205001 (2019)
Courses	• [9] D. P. Higginson, et.al., "Enhancement of Quasistationary Shocks and Heating via Temporal Staging in a Magnetized Laser-Plasma Jet" // <i>Physical Review Letters</i> , 119 255002 (2017).
Certifications	• [10] K. Burdonov, G. Revet, E. Filippov et.al. "Laboratory evidence for an asymmetric accretion structure upon slanted matter impact in young stars" // <i>Astronomy & Astrophysics</i> 642, A38 (2020)
	PROJECTS:
	• EUROFUSION Enabling Research Projects: AWP17-ENR-IFE-CEA-01 "Preparation and Realization of European Shock Ignition" and "Advancing shock ignition for direct-drive inertial fusion".
	• IMPULSE project (ELI ERIC): "Absolute Calibrations for High Repetition Rate Detector Systems at the CLPU"
	• PROBONO COST, member of WG2.
	• RFBR 18-52-53033 – Joint project of RFBR and National Natural Science Foundation of China // Creation of a source of fast ions and hard X-ray radiation based on femtosecond laser plasma
	• RFBR 14-02-91171 – Joint project of RFBR and National Natural Science Foundation of China // Study of ionization processes in giant inert gas clusters and thin foils caused by high-contrast subpetawatt laser pulses

- **RFBR 19-32-60008 (personal, 103k€)** // Development and application of radiative diagnostic methods for the laboratory simulation of extreme astrophysical phenomena by means of laser-induced and magnetized plasma streams.

Results published in:

- **Nature Physics** 17, 1177–1182 (2021)
 - **Matter and Radiation at Extremes** 7, 014402 (2022)
 - **Nature Communications** 12, 762 (2021)
 - **Scientific Reports** 11, 8180 (2021)
 - **Matter and Radiation at Extremes**, 6, 064402 (2021)
 - **Journal of Physics: Conference Series**, 1556 012006 (2020)
- Participation in other projects supported by RFBR, RSF, National Center for Physics and Mathematics, RAS Presidium Program for Basic Research and other granting funds.

INVITED LECTURES (in person):

- PLASMA 2025 Conference, 15-19 September 2025, IPPLM, Warsaw, Poland.
- HB11 web-seminar co-organized by PROBONO and HB11 Energy. 27th February 2025
- GSI Plasma Physics seminar series, Darmstadt, November 5, 2024
- 20th International Workshop Complex Systems of Charged Particles and Their Interactions with Electromagnetic Radiation, Moscow, Russia, April 8-12, 2024
- 18th International Workshop "Complex Systems of Charged Particles and Their Interactions with Electromagnetic Radiation", April 11-13 2022, GPI RAS, Moscow, Russia
- International Conference on High Energy Density Science 2020 (HEDS2020), 20-24 April 2020, Pacifico Yokohama, Japan
- Complex Systems of Charged Particles and their Interactions with Electromagnetic Radiation 2019, March 25-27 2019, GPI RAS, Moscow, Russia
- Complex Supersonic Plasma Flows with Astrophysical Relevance in Laser Plasma", Complex Systems of Charged Particles and Their Interactions with Electromagnetic Radiation, Moscow, Russia, April 5-7, 2017

AWARDS:

- Winner of postdoctoral fellowship programme MERIT supported by the HORIZON EUROPE and MSCA-COFUND grant with the topic "Ultra-relativistic laser plasma as a few MeV ion source of extreme fluxes for Fusion Energy" (2024)
- Personal RFBR grant (fellowship) in 2019-2022
- FPMU JIHT RAS scholarship in 2017/2018
- Scholarship by the order #945 of the Russian Government in 2011-2014 in nomination for «high achievements in scientific-research activities» among students in state federal educational institutes

CITATIONS:

- 418 (Scopus), 538 (ResearchGate), 391 (WoS) (in September 2025)

REVIEWER:

- Communications Physics (2024, IF=5.5)

COURSES:

- Stretcher and Compressor in PW laser systems by Thales in ELI-NP, Magurele, Romania
- "Legislative aspects and practice of scholarship provision for students of higher education institutions "Stipkom-2013", Moscow, Russia
- Radioprotection course for the group A. "Radiation Safety When Handling Generating Radiation Sources. Radiation Control and Protection" in the amount of 72 hours. Moscow, Russia

SELF-ASSESSMENT FORM
for Published Scientific Papers
for Being Awarded the Professional Rank of Recognised Researcher
(3rd Rank Research Scientist - CS III) upon Hiring on the Post

Table 1. Scientific Articles

In the table below:

Articles where the candidate is not a first author or a corresponding author: $P_1 = \sum_i a_i / n_i^{ef}$

Articles where the candidate is a first author or a corresponding author: $P_2 = \sum_i a_i$

$a_i = ai_i$ = is the absolute Article influence score of the scientific journal where article i was published, according to its year of publication as per <http://www.eigenfactor.org/> for articles published until 2006 and Journal Citation Report (Web of Science) starting from 2007; if the publishing year cannot be found in the database, the closest year shall be chosen.

n_i^{ef} = is the actual number of authors of item i and takes the following values:

n_i	if $n_i \leq 5$
$(n_i + 5)/2$	if $5 < n_i \leq 15$
$(n_i + 15)/3$	if $15 < n_i \leq 75$
$(n_i + 45)/4$	if $n_i > 75$

n_i is typically the number of authors of item i . In the case of HEPP (High Energy Particle Physics) publications with a large number of authors, if the article is based on an internal note of the collaboration and the candidate is a co-author of this internal note, then n_i^{ef} can be given by the number of authors in the internal note.

Category of Articles	Item in the List of Papers	Score	Calculation Details
1) Articles in ISI Thomson Reuters rated journals and ISI indexed proceedings volumes for which the candidate is not first author or correspondent author	1	0.788	Nature Physics 17, 1177–1182 (2021) AIS = 9.983 No. of Authors: 23, Actual No.: 12.66
	2	0.443	Nature Communications 12, 762 (2021) AIS = 5.617 No. of Authors: 23, Actual No.: 12.66
	3	0.607	Nature Communications 13:6426 (2022) AIS = 5.767 No. of Authors: 14, Actual No.: 9.5
	4	0.406	Science Advances 3, 11 (2017), AIS = 5.413 No. of Authors: 25, Actual No.: 13.333

	5	0.252	Physical Review Letters, 119 255002 (2017). AIS = 3.190 No. of Authors: 23, Actual No.: 12.66
	6	0.286	Physical Review Letters 123, (2019) 205001 AIS = 3.151 No. of Authors: 18, Actual No.: 11
	7	0.282	Applied Energy 334, 120693 (2023) AIS = 1.973 No. of Authors: 9, Actual No.: 7
	8	0.137	Astronomy & Astrophysics 642, A38 (2020) AIS = 1.510 No. of Authors: 18, Actual No.: 11
	9	0.148	Astronomy & Astrophysics 665, A87 (2022) AIS = 1.681 No. of Authors: 19, Actual No.: 11.33
	10	0.076	Matter and Radiation at Extremes, 6, 064402 (2021) AIS = 1.607 No. of Authors: 48, Actual No.: 21
	11	0.115	Matter and Radiation at Extremes 7, 014402 (2022) AIS = 1.425 No. of Authors: 22, Actual No.: 12.33
	12	0.247	Matter and Radiation at Extremes 6, 014402 (2021) AIS = 1.607 No. of Authors: 8, Actual No.: 6.5
	13	0.154	Matter and Radiation at Extremes 4, (2019) 044401 AIS = 1.237 No. of Authors: 11, Actual No.: 8
	14	0.052	High Power Laser Science and Engineering 6, UNSP e43 (2018) AIS = 0.701 No. of Authors: 25, Actual No.: 13.333
	15	0.049	High Power Laser Science and Engineering 7, e51 (2019) 1-14 AIS = 0.720 No. of Authors: 29, Actual No.: 14.666
	16	0.111	Scientific Reports 9, 8157 (2019) AIS = 1.261 No. of Authors: 19, Actual No.:

			11.333
	17	0.091	Scientific Reports 13, 20681 (2023) AIS = 1.061 No. of Authors: 20, Actual No.: 11.666
	18	0.0602	Optics Express 31(16), 26383- 26397 (2023) AIS =0.723 No. of Authors: 21, Actual No.: 12
	19	0.028	ECS Journal of Solid State Science and Technology 12 066008 (2023) AIS =0.312 No. of Authors: 18, Actual No.: 11
	20	0.021	Laser and Particle Beams 2021, ID 4141522 (2021) AIS =0.272 No. of Authors: 24, Actual No.: 13
	21	0.066	High Energy Density Physics 23, pp. 48-59 (2017) AIS = 0.722 No. of Authors: 23, Actual No.: 11
	22	0.131	High Energy Density Physics 32, (2019) 89-95 AIS = 0.720 No. of Authors: 6, Actual No.: 5.5
	23	0.0123	Physics of Atomic Nuclei, V 79, №5, pp. 648–665 (2016) AIS = 0.123 No. of Authors: 15, Actual No.: 10
	24	0.025	Photonics 10, 1250 (2023) AIS = 0.369 No. of Authors: 29, Actual No.: 14.666
	25	0.024	Physics of Plasmas 31, 053108 (2024) AIS = 0.516 No. of Authors: 50, Actual No.: 21.666
	26	0.088	High Power Laser Science and Engineering, 12, e94 (2024) AIS = 0.909 No. of Authors: 16, Actual No.: 10.333
	27	0.034	JINST 20 C07001 (2025) AIS = 0.374 No. of Authors: 18, Actual No.: 11
	28	0.061	Matter and Radiation at Extremes 10, 037402 (2025) AIS = 1.234 No. of Authors: 46, Actual No.: 20.333

	29	0.034	Phys. Plasmas 32, 043106 (2025) AIS = 0.516 No. of Authors: 30, Actual No.: 15
	30	0.116	Matter and Radiation at Extremes 10, 027203 (2025) AIS = 1.234 No. of Authors: 17, Actual No.: 10.666
	31	0.049	Photonics 12(1), 71 (2025) AIS = 0.346 No. of Authors: 9, Actual No.: 7
	32	0.137	Scientific Reports 14, 29935 (2024) AIS = 1.031 No. of Authors: 10, Actual No.: 7.5
	33	0.496	Nature Communications 15, 10065 (2024) AIS =5.622 No. of Authors: 19, Actual No.: 11.333
	34	0.0073	Nuovo Cimento della Societa Italiana di Fisica C 47(5), 324 (2024) AIS = 0.073 No. of Authors: 15, Actual No.: 10
	35	0.038	Astronomy Reports 68, p. 345–355 (2024) AIS =0.189 No. of Authors: 5, Actual No.: 5
	36	0.035	Appl. Sci. 14, 6101 (2024) AIS =0.438 No. of Authors: 22, Actual No.: 12.333
	37	-	Physics Procedia, 71, p.142–145, (2015) AIS =0 No. of Authors: 15, Actual No.: 10
	38	0.096	High Power Laser Science and Engineering, accepted AIS = 0.909 No. of Authors: 14, Actual No.: 9.5
2) Articles in ISI Thomson Reuters rated journals and ISI indexed proceedings volumes for which the candidate is first author or correspondent author	1	1.323	Matter and Radiation at Extremes 8, 065602 (2023)
	2	1.237	Matter and Radiation at Extremes 4 (2019) 064402
	3	1.208	Scientific Reports 11, 8180 (2021)
	4	0.406	Symmetry 14(12):2536 (2022)
	5	0.432	Atoms 13(6), 51 (2025)
	6		J. Phys. Conf. Ser, 1556 (2020) 012006
	7	-	Journal of Physics: Conference Series 768, (2016) 012012

	8	-	J. Phys. Conf. Ser., 774 (2016) 012114
TOTAL		10.414	

Applicant's Surname First Name: EVGENY FILIPPOV

Signature

Dr. Evgeny Filippov's list of publications

ResearcherID: S-4854-2016

Scopus Author ID: 56845148600

Science Index: 5735-5523

ORCID: 0000-0001-8774-8860

H-index: 12

Major scientific publications:

[1] E.D. Filippov, M. Khan, A. Tentori, P. Gajdos, A.S. Martynenko, R. Dudzak, P. Koester, G. Zeraouli, D. Mancelli, F. Baffigi, L.A. Gizzi, S.A. Pikuz, Ph.D. Nicolai, N. Woolsey, R. Fedosejevs, M. Krus, L. Juha, D. Batani, O. Renner, and G. Cristoforetti. "Characterization of hot electrons generated by laser-plasma interaction at Shock Ignition intensities" // **Matter and Radiation at Extremes** 8, 065602 (2023)

[2] E.D. Filippov, S.S. Makarov, K.F. Burdonov, W. Yao, G. Revet, J. Béard, S. Bolaños, S.N. Chen, A. Guediche, J. Hare, D. Romanovsky, I.Yu. Skobelev, M. Starodubtsev, A. Ciardi, S.A. Pikuz and J. Fuchs. «Enhanced x-ray emission arising from laser-plasma confinement by a strong transverse magnetic field», **Scientific Reports** 11, 8180 (2021)

[3] E.D. Filippov, I.Yu. Skobelev, G.Revet, S.N. Chen, B. Khair, A. Ciardi, D. Khaghani, D.P. Higginson, S.A. Pikuz and J. Fuchs. "X-ray spectroscopy evidence for plasma shell formation in experiments modeling accretion columns in young stars" . **Matter and Radiation at Extremes** 4, 064402 (2019)

[4] W. Yao, A. Fazzini, S. N. Chen, K. Burdonov, P. Antici, J. Béard, S. Bolaños, A. Ciardi, R. Diab, E.D. Filippov, S. Kisyov, V. Lelasseux, M. Miceli, Q. Moreno, V. Nastasa, S. Orlando, S. Pikuz, D. C. Popescu, G. Revet, X. Ribeyre, E. d' Humières and J. Fuchs. «Laboratory evidence for proton energization by collisionless shock surfing», **Nature Physics** 17, 1177 – 1182 (2021)

[5] G. Revet, B. Khair, E. Filippov, C. Argiroffi, J. Béard, R. Bonito, M. Cerchez, S. N. Chen, T. Gangolf, D. P. Higginson, A. Mignone, B. Olmi, M. Ouill'e, S. N. Ryazantsev, I. Yu. Skobelev, M. I. Safronova, M. Starodubtsev, T. Vinci, O. Willi, S. Pikuz, S. Orlando, A. Ciardi, and J. Fuchs. "Laboratory disruption of scaled astrophysical outflows by a misaligned magnetic field, **Nature Communications** 12, 762 (2021)

[6] S. Bolanos, A. Sladkov, R. Smets, S.N. Chen, A. Grisolle, E. Filippov, J.L. Henares, V. Nastasa, S. Pikuz, R. Riquier, M. Safronova, A. Severin, M. Starodubtsev, J. Fuchs. "Laboratory evidence of magnetic reconnection hampered in obliquely interacting flux tubes" // **Nature Communications** 13:6426 (2022)

[7] G. Revet, S.N. Chen, R. Bonito, B. Khair, E. Filippov, C. Argiroffi, D. P. Higginson, S. Orlando, J. Béard, M. Blecher, M. Borghesi, K. Burdonov, D. Khaghani, K. Naughton, H. Pépin, O. Portugall, R. Riquier, R. Rodriguez, S.N. Ryazantsev, I.Yu. Skobelev, A. Soloviev, O. Willi, S. Pikuz, A. Ciardi, J. Fuchs, "Laboratory unravelling of matter accretion in young stars" // **Science Advances** 3, 11 (2017)

[8] A. Sladkov, C. Fegan, W. Yao, A. F. A. Bott, S. N. Chen, H. Ahmed, E. D. Filippov, R. Lelièvre, P. Martin, A. McIlvenny, T. Waltenziel, P. Antici, M. Borghesi, S. Pikuz, A. Ciardi, E. d' Humières, A. Soloviev, M. Starodubtsev and J. Fuchs "Saturation of the compression of two interacting magnetic flux tubes evidenced in the laboratory" // **Nature Communications** 15, 10065 (2024)

[9] M. Sciscio, G. Petringa, Z. Zhu, M. Rodrigues, M. Alonzo, P. Andreoli, F. Filippi, F. Consoli, M. Huault, D. Raffestin, D. Molloy, H. Larreur, D. Singappuli, T. Carriere, C. Verona, P. Nicolai, A. McNamee, M. Ehret, E. Filippov, R. Lera, J. A. Perez Hernandez, S. Agarwal, M. Krupka, S. Singh, V. Istokskaia, D. Lattuada, M. La Cognata, L. Guardo, S. Palmerini, G. Rapisarda, K. Batani, M. Cipriani, G. Cristofari, E. Di Ferdinando, G. Di Giorgio, R. De Angelis, D. Giulietti, X. Jun, L. Volpe,

M. D. R. Frias, L. Giuffrida, D. Margarone, D. Batani, P. Cirrone, A. Bonasera, and F. Consoli. Laser initiated p-11B fusion reactions in petawatt high-repetition-rate laser facilities // **Matter and Radiation at Extremes** 10, 037402 (2025)

[10] J. L. Henares, M. Ehret, J. Imanol Apiñaniz, C. Salgado, J. A. Pérez-Hernández, M. L. Berlanga, A. M. Cives, E. Filippov, E. García-García, R. Hernández Martín, D. de Luis, P. Puyuelo-Valdes, I. Rodríguez-Pérez, M. D. Rodríguez Frías, I.-M. Vladisavlevici and G. Gatti. High-repetition-rate 1 Hz solid-density tape target delivery system for ultra-intense laser-matter interaction at PW-class laser facilities // **High Power Laser Science and Engineering**, 12, e94 (2024)

Other scientific contributions:

INVITED LECTURES:

- PLASMA 2025 Conference, 15-19 September 2025, IPPLM, Warsaw, Poland.
- HB11 web-seminar co-organized by PROBONO and HB11 Energy, 27th February 2025
- GSI Plasma Physics seminar series, Darmstadt, November 5, 2024
- 20th International Workshop Complex Systems of Charged Particles and Their Interactions with Electromagnetic Radiation, Moscow, Russia, April 8-12, 2024
- 18th International Workshop “Complex Systems of Charged Particles and Their Interactions with Electromagnetic Radiation”, April 11-13 2022, GPI RAS, Moscow, Russia
- International Conference on High Energy Density Science 2020 (HEDS2020), 20-24 April 2020, Pacifico Yokohama, Japan
- Complex Systems of Charged Particles and their Interactions with Electromagnetic Radiation 2019, March 25-27 2019, GPI RAS, Moscow, Russia
- Complex Supersonic Plasma Flows with Astrophysical Relevance in Laser Plasma”, Complex Systems of Charged Particles and Their Interactions with Electromagnetic Radiation, Moscow, Russia, April 5-7, 2017

• REVIEWER:

Communications Physics (2024, IF=5.5)