

Aviso: [2021-04-13 04:32] este documento é uma impressão do portal Ciência-IUL e foi gerado na data indicada. O documento tem um propósito meramente informativo e representa a informação contida no portal Ciência-IUL nessa data.

Ricardo Fonseca

Professor Catedrático

Departamento de Ciências e Tecnologias da Informação (ISTA)

Investigador Integrado

Instituto de Plasmas e Fusão Nuclear



Contactos

E-mail	ricardo.fonseca@iscte-iul.pt
Gabinete	D6.05
Telefone	217650544
Cacifo	325

Currículo

Ricardo A. Fonseca nasceu em Lisboa, Portugal a 11 de setembro de 1973. Licenciou-se em Eng.^a Física Tecnológica pelo Instituto Superior Técnico em 1996 e junto ao Grupo de Lasers e Plasmas deste Instituto. Em 2000 passou um ano na Universidade da Califórnia em Los Angeles onde trabalhou na modelização numérica da interação laser-plasma a alta intensidade. Doutorou-se em Física pela Universidade Técnica de Lisboa em 2002, focando a sua tese em aceleração de electrões pela interação laser-plasma. Publicou mais de uma centena de artigos científicos em jornais internacionais de topo tendo sido citado mais de 6000 vezes. Em 2003 obteve uma posição permanente no ISCTE - Instituto Universitário de Lisboa. De setembro de 2013 a novembro de 2018 foi o Diretor da Escola de Tecnologias e Arquitetura deste instituto, onde atualmente é Professor Catedrático de Física e Eletromagnetismo.

Áreas de Investigação

Computação de Alto Desempenho

Física de Plasmas

Qualificações Académicas

Universidade/Instituição	Tipo	Curso	Período
Universidade de Lisboa Instituto Superior Técnico	Agregação	Física	2013
Universidade de Lisboa Instituto Superior Técnico	Doutoramento	Doutoramento em Física	2002
Universidade de Lisboa Instituto Superior Técnico	Licenciatura	Eng. ^a Física Tecnológica	1996

Atividades Letivas

Ano Letivo	Sem.	Nome da Unidade Curricular	Curso(s)	Coord
2020/2021	2º	Sistemas Operativos	Engenharia Informática; Informática e Gestão de Empresas (PL); Engenharia Informática (PL); Informática e Gestão de Empresas; Engenharia de Telecomunicações e Informática;	Não
2019/2020	1º	Mecânica e Electricidade	Engenharia Informática (PL); Engenharia de Telecomunicações e Informática; Engenharia Informática;	Não
2018/2019	2º	Computação de Alto Desempenho	Ciências e Tecnologias da Informação;	Sim
2017/2018	1º	Computação de Alto Desempenho	Ciências e Tecnologias da Informação;	Sim
2014/2015	1º	Computação de Alto Desempenho	Ciências e Tecnologias da Informação;	Sim
2013/2014	1º	Mecânica e Electricidade	Engenharia Informática; Engenharia de Telecomunicações e Informática;	Não
2013/2014	2º	Ondas e Ótica	Engenharia de Telecomunicações e Informática;	Sim
2013/2014	2º	Ondas e Ótica	Engenharia de Telecomunicações e Informática (PL);	Sim
2012/2013	1º	Mecânica e Electricidade	Engenharia Informática; Engenharia de Telecomunicações e Informática;	Não
2012/2013	2º	Ondas e Ótica	Engenharia de Telecomunicações e Informática (PL);	Sim
2012/2013	2º	Ondas e Ótica	Engenharia de Telecomunicações e Informática;	Sim
2011/2012	1º	Bases de Engenharia I	Engenharia Informática;	Sim
2010/2011	1º	Bases de Engenharia I	Engenharia Informática;	Sim
2010/2011	2º	Física	Engenharia de Telecomunicações e Informática;	Sim

2010/2011	2º	Física	Engenharia de Telecomunicações e Informática (PL);	Sim
-----------	----	--------	--	-----

Orientações

• Orientações de Pós-doutoramento

- Terminadas

	Tipo de Orientação	Nome do Estudante	Título/Tópico	Língua	Instituição	Ano de Conclusão
1	Orientador	Dr. Timon Mehrling	Deutscher Akademischer Austauschdienst (DAAD) programme P.R.I.M.E. (Postdoctoral Researchers International Mobility Experience) 2015	Inglês	IST - Universidade de Lisboa	2016

• Teses de Doutoramento

- Em curso

	Tipo de Orientação	Nome do Estudante	Título/Tópico	Língua	Estado	Instituição
1	Orientador	Anton Helm	Three dimensional modelling towards the tera-electronvolt: the dawn of cosmic rays in table top plasma based devices	Inglês	Em curso	IST - Universidade de Lisboa

- Terminadas

	Tipo de Orientação	Nome do Estudante	Título/Tópico	Língua	Instituição	Ano de Conclusão
1	Co-Orientador	Samuel de Freitas Martins	Pushing the limits of computer simulations for ultra-relativistic scenarios: from plasma accelerators to high-energy astrophysics	Inglês	IST - Universidade de Técnica de Lisboa	2011

• Dissertações de Mestrado

- Terminadas

	Tipo de Orientação	Nome do Estudante	Título/Tópico	Língua	Instituição	Ano de Conclusão
1	Orientador	José Monteiro	GREPHICS: Green Energy Powered High-Speed Inductive Charging System	Inglês	ISCTE-IUL	2011

Total de Citações

Web of Science®	7635
Scopus	7885

Publicações

• Revistas Científicas

- Artigo em revista científica

1	<p>Li, F., Miller, K. G., Xu, X., Tsung, F. S., Decyk, V. K., An, W....Mori, W. B. (2021). A new field solver for modeling of relativistic particle-laser interactions using the particle-in-cell algorithm. <i>Computer Physics Communications</i>. 258</p> <p>- N.º de citações Web of Science®: 1 - N.º de citações Scopus: 1</p>
2	<p>Miller, K. G. , Lee, R. P., Tableman, A., Helm, A, Fonseca, R. A., Decyk, V. K....Mori, W. B. (2021). Dynamic load balancing with enhanced shared-memory parallelism for particle-in-cell codes. <i>Computer Physics Communications</i>. 259</p>
3	<p>Zhang, W. L., Grismayer, T., Schoeffler, K. M., Fonseca, R. A. & Silva, L. O. (2021). High-order harmonic generation in an electron-positron-ion plasma. <i>Physical Review E</i>. 103 (1)</p>
4	<p>Sinha, U., Schoeffler, K. M., Martins, J. L., Vieira, J., Fonseca, R. A. & Silva, L. O. (2021). Magnetized current filaments as a source of circularly polarized light. <i>Journal of Plasma Physics</i>. 87 (1)</p>
5	<p>Turner, M., Muggli, P., Adli, E., Agnello, R., Aladi, M., Andrebe, Y....Zevi Della Porta, G. (2020). Experimental study of wakefields driven by a self-modulating proton bunch in plasma. <i>Physical Review Accelerators and Beams</i>. 23 (8)</p> <p>- N.º de citações Web of Science®: 2 - N.º de citações Scopus: 1</p>
6	<p>Silva, J., Helm, A, Silva, J., Fonseca, R. A. & Silva, J. (2020). On the use of the envelope model for down-ramp injection in laser-plasma accelerators. <i>Plasma Physics and Controlled Fusion</i>. 62 (2), 024001</p> <p>- N.º de citações Web of Science®: 1 - N.º de citações Scopus: 3</p>
7	<p>Gorn, A., Turner, M., Adli, E, Agnello, R., Aladi, M. , Andrebe, Y. ...The AWAKE collaboration (2020). Proton beam defocusing in AWAKE: comparison of simulations and measurements. <i>Plasma Physics and Controlled Fusion</i>. 62</p>
8	<p>Trines, R. M. G., Alves, E. P., Webb, E., Vieira, J., Fiuza, F., Fonseca, R. A....Bingham, R. (2020). New criteria for efficient Raman and Brillouin amplification of laser beams in plasma. <i>Scientific Reports</i>. 10 (1)</p> <p>- N.º de citações Web of Science®: 1 - N.º de citações Scopus: 1</p>
9	<p>Del Gaudio, F., Grismayer, T., Fonseca, R. A. & Silva, L. O. (2020). Compton scattering in particle-in-cell codes. <i>Journal of Plasma Physics</i>. 86 (5)</p> <p>- N.º de citações Web of Science®: 1 - N.º de citações Scopus: 1</p>

10	Xu, X., Li F, Tsung, F. S., Dalichaouch T, An, W., Wen H...Mori, W. B. (2020). On numerical errors to the fields surrounding a relativistically moving particle in PIC codes. <i>Journal of Computational Physics</i> . 413, 109451 - N.º de citações Web of Science®: 2 - N.º de citações Scopus: 2
11	Braunmuller, F., Nechaeva, T., Adli, E., Agnello, R., Aladi, M., Andrebe, Y....Della Porta, G. Z. (2020). Proton bunch self-modulation in plasma with density gradient. <i>Physical Review Letters</i> . 125 (26) - N.º de citações Web of Science®: 1
12	Silva, T., Schoeffler, K. M., Vieira, J., Hoshino, M., Fonseca, R. A. & Silva, L. O. (2020). Anisotropic heating and magnetic field generation due to Raman scattering in laser-plasma interactions. (con)textos: revista d'antropologia i investigació social. 2
13	Del Gaudio, F., Fonseca, R. A., Silva, L. O. & Grismayer, T. (2020). Plasma wakes driven by photon bursts via compton scattering. <i>Physical Review Letters</i> . 125 (26) - N.º de citações Web of Science®: 1 - N.º de citações Scopus: 2
14	Gschwendtner, E., Turner, M., Adli, E., Ahuja, A., Apsimon, O., Apsimon, R...Xia, G. (2020). Correction to 'Proton-driven plasma wakefield acceleration in AWAKE'. <i>Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> . 378 (2164)
15	Turner, M., Adli, E., Ahuja, A., Apsimon, O., Apsimon, R., Bachmann, A. -M...Xia, G. (2019). Experimental observation of plasma wakefield growth driven by the seeded self-modulation of a proton bunch. <i>Physical Review Letters</i> . 122 (5) - N.º de citações Web of Science®: 19 - N.º de citações Scopus: 24
16	Schoeffler, K. M., Grismayer, T., Uzdensky, D., Fonseca, R. A. & Silva, L. O. (2019). Bright gamma-ray flares powered by magnetic reconnection in QED-strength magnetic fields. <i>Astrophysical Journal</i> . 870 (1) - N.º de citações Web of Science®: 3 - N.º de citações Scopus: 5
17	Adli, E., Ahuja, A., Apsimon, O., Apsimon, R., Bachmann, A.-M., Barrientos, D...Xia, G. X. (2019). Experimental observation of proton bunch modulation in a plasma at varying plasma densities. <i>Physical Review Letters</i> . 122 (5) - N.º de citações Web of Science®: 14 - N.º de citações Scopus: 21
18	Mehrling, T. J., Fonseca, R. A., Ossa, A. & Vieira, J. (2019). Mechanisms for the mitigation of the hose instability in plasma-wakefield accelerators. <i>Physical Review Accelerators and Beams</i> . 22 (3), 1-15
19	Del Gaudio, F., Grismayer, T., Fonseca, R. A., Mori, W. B. & Silva, L. O. (2019). Bright gamma-rays source and nonlinear Breit-Wheeler pairs in the collision of high density particle beams . <i>Physical Review Accelerators and Beams</i> . 22 (2) - N.º de citações Web of Science®: 8 - N.º de citações Scopus: 6
20	Mayr, M. W., Ceurvorst, L., Kasim, M. F., Sadler, J. D., Spiers, B., Glize, K...Norreys, P. A. (2019). Wakefields in a cluster plasma. <i>Physical Review Accelerators and Beams</i> . 22 (11) - N.º de citações Web of Science®: 1 - N.º de citações Scopus: 1

21	<p>Wen, H., Tsung, F. S., Mori, W. B., Fonseca, R. A. & Silva, L. O. (2019). Petascale particle-in-cell simulations of kinetic effects in inertial fusion energy plasmas. <i>Plasma Physics and Controlled Fusion</i>. 61 (4), 1-5</p> <p>- N.º de citações Web of Science®: 1</p> <p>- N.º de citações Scopus: 1</p>
22	<p>Vranic, M., Grismayer, T., Meuren, S., Fonseca, R. A. & Silva, L. O. (2019). Are we ready to transfer optical light to gamma-rays?. <i>Physics of Plasmas</i>. 26 (5)</p> <p>- N.º de citações Web of Science®: 2</p> <p>- N.º de citações Scopus: 2</p>
23	<p>Gschwendtner, E., Turner, M., Adli, E., Ahuja, A., Apsimon, O., Apsimon, R....Xia, G. (2019). Proton-driven plasma wakefield acceleration in AWAKE. <i>Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences</i>. 377 (2151)</p> <p>- N.º de citações Web of Science®: 5</p> <p>- N.º de citações Scopus: 4</p>
24	<p>Vranic, M., Fonseca, R. A. & Silva, L. O. (2018). Extremely intense laser-based electron acceleration in a plasma channel. <i>Plasma Physics and Controlled Fusion</i>. 60 (3)</p> <p>- N.º de citações Web of Science®: 13</p> <p>- N.º de citações Scopus: 12</p>
25	<p>Sadler, J. D., Silva, L. O., Fonseca, R. A., Glize, K., Kasim, M. F., Savin, A....Norreys, P. A. (2018). Advantages to a diverging Raman amplifier. <i>Communications Physics</i>. 1 (1)</p> <p>- N.º de citações Web of Science®: 4</p> <p>- N.º de citações Scopus: 2</p>
26	<p>Shulka, N., Vieira, J., Muggli, P., Sarri, G., Fonseca, R. A. & Silva, L. O. (2018). Conditions for the onset of the current filamentation instability in the laboratory. <i>Journal of Plasma Physics</i>. 84 (3)</p> <p>- N.º de citações Web of Science®: 7</p> <p>- N.º de citações Scopus: 6</p>
27	<p>Inchingolo, G., Grismayer, T., Loureiro, N. F., Fonseca, R. A. & Silva, L. O. (2018). Fully kinetic large-scale simulations of the collisionless magnetorotational instability. <i>Astrophysical Journal</i>. 859 (2)</p> <p>- N.º de citações Web of Science®: 5</p> <p>- N.º de citações Scopus: 6</p>
28	<p>Boella, E., Fiuza, F., Novo, A. S., Fonseca, R. & Silva, L. O. (2018). Ion acceleration in electrostatic collisionless shock: on the optimal density profile for quasi-monoenergetic beams. <i>Plasma Physics and Controlled Fusion</i>. 60 (3)</p> <p>- N.º de citações Web of Science®: 6</p> <p>- N.º de citações Scopus: 6</p>
29	<p>Muggli, P., Adli, E., Apsimon, R., Asmus, F., Baartman, R., Bachmann, A.-M....The AWAKE collaboration (2018). AWAKE readiness for the study of the seeded self-modulation of a 400 GeV proton bunch. <i>Plasma Physics and Controlled Fusion</i>. 60 (1)</p> <p>- N.º de citações Web of Science®: 26</p> <p>- N.º de citações Scopus: 33</p>
30	<p>Davoine, X., Fiuza, F., Fonseca, R. A., Mori, W. B. & Silva, J. (2018). Ion-channel laser growth rate and beam quality requirements. <i>Journal of Plasma Physics</i>. 84 (3)</p> <p>- N.º de citações Web of Science®: 4</p> <p>- N.º de citações Scopus: 4</p>
31	<p>Adli, E., Ahuja, A., Apsimon, O., Apsimon, R., Bachmann, A.-M., Barrientos, D....Xia, G. (2018). Acceleration of electrons in the plasma wakefield of a proton bunch. <i>Nature</i>. 561 (7723), 363-367</p> <p>- N.º de citações Web of Science®: 71</p>

32	<p>Li, F., Yu, P. C., Xu, X., Fiuza, F., Decyk, V. K., Dalichaouch, T....Mori, W. B. (2017). Controlling the numerical Cerenkov instability in PIC simulations using a customized finite difference Maxwell solver and a local FFT based current correction. <i>Computer Physics Communications</i>. 214, 6-17</p> <p>- N.º de citações Web of Science®: 13</p> <p>- N.º de citações Scopus: 13</p>
33	<p>Vranic, M., Grismayer, T., Fonseca, R. A. & Silva, L. O. (2017). Electron-positron cascades in multiple-laser optical traps. <i>Plasma Physics and Controlled Fusion</i>. 59 (1)</p> <p>- N.º de citações Web of Science®: 23</p> <p>- N.º de citações Scopus: 34</p>
34	<p>Cruz, F., Alves, E. P., Bamford, R. A., Bingham, R., Fonseca, R. A. & Silva, L. O. (2017). Formation of collisionless shocks in magnetized plasma interaction with kinetic-scale obstacles. <i>Physics of Plasmas</i>. 24 (2)</p> <p>- N.º de citações Web of Science®: 8</p> <p>- N.º de citações Scopus: 7</p>
35	<p>Mehrling, T. J., Fonseca, R. A., Martinez de La Ossa, A. & Vieira, J. (2017). Mitigation of the hose instability in plasma-wakefield accelerators. <i>Physical Review Letters</i>. 118 (17)</p> <p>- N.º de citações Web of Science®: 33</p> <p>- N.º de citações Scopus: 37</p>
36	<p>Sadler, J. D., Sliwa, M., Miller, T., Kasim, M. F., Ratan, N., Ceurvorst, L....Trines, R. M. G. M. (2017). Robustness of raman plasma amplifiers and their potential for attosecond pulse generation. <i>High Energy Density Physics</i>. 23, 212-216</p> <p>- N.º de citações Web of Science®: 1</p> <p>- N.º de citações Scopus: 1</p>
37	<p>Grismayer, T., Vranic, M., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2017). Seeded QED cascades in counterpropagating laser pulses. <i>Physical Review E</i>. 95 (2)</p> <p>- N.º de citações Web of Science®: 44</p> <p>- N.º de citações Scopus: 44</p>
38	<p>Vieira, J., Trines, R. M. G., Alves, E. P., Fonseca, R. A., Mendonça, J. T., Bingham, R....Silva, L. O. (2016). High orbital angular momentum harmonic generation. <i>Physical Review Letters</i>. 117 (26)</p> <p>- N.º de citações Web of Science®: 41</p> <p>- N.º de citações Scopus: 44</p>
39	<p>Stockem, A., Kaluza, M. C., Fonseca, R. A. & Silva, L. O. (2016). Optimizing laser-driven proton acceleration from overdense targets. <i>Scientific Reports</i>. 6</p> <p>- N.º de citações Web of Science®: 6</p> <p>- N.º de citações Scopus: 7</p>
40	<p>Vieira, J., Trines, R. M. G., Alves, E. P., Fonseca, R. A., Mendonça, J. T., Bingham, R....Silva, L. O. (2016). Amplification and generation of ultra-intense twisted laser pulses via stimulated Raman scattering. <i>Nature Communications</i>. 7</p> <p>- N.º de citações Web of Science®: 88</p> <p>- N.º de citações Scopus: 87</p>
41	<p>Martins, J. L., Vranic, M., Grismayer, T., Vieira, J., Fonseca, R. A. & Silva, L. O. (2016). Modelling radiation emission in the transition from the classical to the quantum regime. <i>Plasma Physics and Controlled Fusion</i>. 58 (1)</p> <p>- N.º de citações Web of Science®: 11</p> <p>- N.º de citações Scopus: 6</p>

42	<p>Alves, E. P., Grismayer, T., Silveirinha, M. G., Fonseca, R. A. & Silva, L. O. (2016). Slow down of a globally neutral relativistic e- e+ beam shearing the vacuum. <i>Plasma Physics and Controlled Fusion</i>. 58 (1)</p> <p>- N.º de citações Web of Science®: 5</p> <p>- N.º de citações Scopus: 5</p>
43	<p>Bamford, R. A., Alves, E. P., Cruz, F., Kellett, B. J., Fonseca, R. A., Silva, L. O....Bingham, R. (2016). 3D PIC simulations of collisionless shocks at lunar magnetic anomalies and their role in forming lunar swirls. <i>Astrophysical Journal</i>. 830 (2)</p> <p>- N.º de citações Web of Science®: 11</p> <p>- N.º de citações Scopus: 12</p>
44	<p>Vranic, M., Grismayer, T., Fonseca, R. A. & Silva, L. O. (2016). Quantum radiation reaction in head-on laser-electron beam interaction. <i>New Journal of Physics</i>. 18 (7)</p> <p>- N.º de citações Web of Science®: 51</p> <p>- N.º de citações Scopus: 49</p>
45	<p>Yu, P., Xu, X., Davidson, A., Tableman, A., Dalichaouch, T., Li, F....Mori, W. B. (2016). Enabling Lorentz boosted frame particle-in-cell simulations of laser wakefield acceleration in quasi-3D geometry. <i>Journal of Computational Physics</i>. 316, 747-759</p> <p>- N.º de citações Web of Science®: 3</p> <p>- N.º de citações Scopus: 4</p>
46	<p>Schoeffler, K. M., Loureiro, N. F., Fonseca, R. A. & Silva, L. O. (2016). The generation of magnetic fields by the Biermann battery and the interplay with the Weibel instability. <i>Physics of Plasmas</i>. 23 (5)</p> <p>- N.º de citações Web of Science®: 15</p> <p>- N.º de citações Scopus: 12</p>
47	<p>Gschwendtner, E., Adli, E., Amorim, L., Apsimon, R., Assmann, R., Bachmann, A.-M....Zhang, H. (2016). AWAKE, the advanced proton driven plasma wakefield acceleration experiment at CERN. <i>Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i>. 829, 76-82</p> <p>- N.º de citações Web of Science®: 51</p> <p>- N.º de citações Scopus: 63</p>
48	<p>Vranic, M., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2016). Classical radiation reaction in particle-in-cell simulations. <i>Computer Physics Communications</i>. 204, 141-151</p> <p>- N.º de citações Web of Science®: 28</p> <p>- N.º de citações Scopus: 31</p>
49	<p>Caldwell, A., Adli, E., Amorim, L. D., Apsimon, R., Argyropoulos, T., Assmann, R....Zimmermann, F. (2016). Path to AWAKE: evolution of the concept. <i>Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i>. 829, 3-16</p> <p>- N.º de citações Web of Science®: 40</p> <p>- N.º de citações Scopus: 48</p>
50	<p>Grismayer, T., Vranic, M., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2016). Laser absorption via quantum electrodynamics cascades in counter propagating laser pulses. <i>Physics of Plasmas</i>. 23 (5)</p> <p>- N.º de citações Web of Science®: 63</p> <p>- N.º de citações Scopus: 64</p>
51	<p>Vranic, M., Grismayer, T., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2015). Particle merging algorithm for PIC codes. <i>Computer Physics Communications</i>. 191, 65-73</p> <p>- N.º de citações Web of Science®: 23</p> <p>- N.º de citações Scopus: 28</p>

52	<p>Pathak, V. B., Grismayer, T., Stockem, A., Fonseca, R. A. & Silva, L. O. (2015). Spatial-temporal evolution of the current filamentation instability. <i>New Journal of Physics</i>. 17 (4)</p> <p>- N.º de citações Web of Science®: 8</p> <p>- N.º de citações Scopus: 7</p>
53	<p>Stockem, A., Bret, A., Fonseca, R. A. & Silva, L. O. (2015). Shock formation in electron-ion plasmas: mechanism and timing. <i>Astrophysical Journal Letters</i>. 803 (2)</p> <p>- N.º de citações Web of Science®: 21</p> <p>- N.º de citações Scopus: 19</p>
54	<p>Yu, P., Xu, X., Decyk, V. K., Fiuza, F., Vieira, J., Tsung, F. S....Mori, W. B. (2015). Elimination of the numerical Cerenkov instability for spectral EM-PIC codes. <i>Computer Physics Communications</i>. 192, 32-47</p> <p>- N.º de citações Web of Science®: 14</p> <p>- N.º de citações Scopus: 15</p>
55	<p>Davidson, A. W., Tableman, A., An, W., Tsung, F. S., Lu, W., Vieira, J....Mori, W. B. (2015). Implementation of a hybrid particle code with a PIC description in r-z and a gridless description in phi into OSIRIS. <i>Journal of Computational Physics</i>. 281, 1063-1077</p> <p>- N.º de citações Web of Science®: 26</p> <p>- N.º de citações Scopus: 31</p>
56	<p>Stockem, A. S., Bret, A., Fonseca, R. A. & Silva, L. O. (2015). Physics of collisionless shocks: theory and simulation. <i>Plasma Physics and Controlled Fusion</i>. 58 (1)</p> <p>- N.º de citações Web of Science®: 5</p> <p>- N.º de citações Scopus: 6</p>
57	<p>Alves, E. P., Grismayer, T., Fonseca, R. A. & Silva, L. O. (2015). Transverse electron-scale instability in relativistic shear flows. <i>Physical Review E</i>. 92 (2)</p> <p>- N.º de citações Web of Science®: 18</p> <p>- N.º de citações Scopus: 18</p>
58	<p>Yu, P., Xu, X., Tableman, A., Decyk, V. K., Tsung, F. S., Fiuza, F....Mori, W. B. (2015). Mitigation of numerical Cerenkov radiation and instability using a hybrid finite difference-FFT Maxwell solver and a local charge conserving current deposit. <i>Computer Physics Communications</i>. 197, 144-152</p> <p>- N.º de citações Web of Science®: 11</p> <p>- N.º de citações Scopus: 14</p>
59	<p>Lotov, K., Sosedkin, A., Petrenko, A., Amorim, L. D., Vieira, J., Fonseca, R. A....Muggli, P. (2014). Electron trapping and acceleration by the plasma wakefield of a self-modulating proton beam. <i>Physics of Plasmas</i>. 21 (12)</p> <p>- N.º de citações Web of Science®: 22</p> <p>- N.º de citações Scopus: 30</p>
60	<p>May, J., Tonge, J. W., Ellis, I., Mori, W. B., Fiuza, F., Fonseca, R. A....Silva, L. O. (2014). Enhanced stopping of macro-particles in particle-in-cell simulations. <i>Physics of Plasmas</i>. 21 (5)</p> <p>- N.º de citações Web of Science®: 8</p> <p>- N.º de citações Scopus: 6</p>
61	<p>Vieira, J., Fonseca, R. A., Mori, W. B. & Silva, L. O. (2014). Ion motion in the wake driven by long particle bunches in plasmas. <i>Physics of Plasmas</i>. 21 (5)</p> <p>- N.º de citações Web of Science®: 16</p> <p>- N.º de citações Scopus: 17</p>
62	<p>Gargaté, L., Fonseca, R. A., Silva, L. O., Bamford, R. A. & Bingham, R. (2014). Sep acceleration in CME driven shocks using a hybrid code. <i>Astrophysical Journal</i>. 792 (1), 9</p> <p>- N.º de citações Web of Science®: 3</p> <p>- N.º de citações Scopus: 4</p>

63	<p>Stockem, A., Fiuza, F., Bret, A., Fonseca, R. A. & Silva, L. O. (2014). Exploring the nature of collisionless shocks under laboratory conditions. <i>Scientific Reports</i>. 4</p> <p>- N.º de citações Web of Science®: 52</p> <p>- N.º de citações Scopus: 47</p>
64	<p>Vranic, M., Martins, J. L., Vieira, J., Fonseca, R. A. & Silva, L. O. (2014). All-optical radiation reaction at 10^{21} W/cm². <i>Physical Review Letters</i>. 113, 134801</p> <p>- N.º de citações Web of Science®: 45</p> <p>- N.º de citações Scopus: 43</p>
65	<p>Alves, E. P., Grismayer, T., Fonseca, R. A. & Silva, L. O. (2014). Electron-scale shear instabilities: magnetic field generation and particle acceleration in astrophysical jets. <i>New Journal of Physics</i>. 16 (3)</p> <p>- N.º de citações Web of Science®: 25</p> <p>- N.º de citações Scopus: 26</p>
66	<p>Stockem, A., Grismayer, T., Fonseca, R. A. & Silva, L. O. (2014). Electromagnetic field generation in the downstream of electrostatic shocks due to electron trapping. <i>Physical Review Letters</i>. 113 (10), 105002</p> <p>- N.º de citações Web of Science®: 16</p> <p>- N.º de citações Scopus: 16</p>
67	<p>Schoeffler, K. M., Loureiro, N. F., Fonseca, R. A. & Silva, L. O. (2014). Magnetic-field generation and amplification in an expanding plasma. <i>Physical Review Letters</i>. 112 (17)</p> <p>- N.º de citações Web of Science®: 27</p> <p>- N.º de citações Scopus: 25</p>
68	<p>Assmann, R., Bingham, R., Bohl, T., Bracco, C., Buttenschön, B., Butterworth, A...Xia, G. (2014). Proton-driven plasma wakefield acceleration: a path to the future of high-energy particle physics. <i>Plasma Physics and Controlled Fusion</i>. 56 (8), 084013</p> <p>- N.º de citações Web of Science®: 50</p> <p>- N.º de citações Scopus: 73</p>
69	<p>Yu, P., Xu, X., Decyk, V. K., An, W., Vieira, J., Tsung, F. S...Mori, W. B. (2014). Modeling of laser wakefield acceleration in Lorentz boosted frame using EM-PIC code with spectral solver. <i>Journal of Computational Physics</i>. 266, 124-138</p> <p>- N.º de citações Web of Science®: 16</p> <p>- N.º de citações Scopus: 18</p>
70	<p>Guillaume, E., Humphrey KA, Nakamura H, Trines, R. M. G., Heathcote R, M Galimberti...P. A. Norreys (2014). Demonstration of laser pulse amplification by stimulated Brillouin scattering. <i>High Power Laser Science and Engineering</i>.</p> <p>- N.º de citações Web of Science®: 20</p> <p>- N.º de citações Scopus: 18</p>
71	<p>Fiuza, F., Stockem, A., Boella, E., Fonseca, R. A., Silva, L. O., Haberberger, D...Joshi, C. (2013). Ion acceleration from laser-driven electrostatic shocks. <i>Physics of Plasmas</i>. 20 (5)</p> <p>- N.º de citações Web of Science®: 58</p> <p>- N.º de citações Scopus: 63</p>
72	<p>Xu, X., Yu, P., Martins, S. F., Tsung, F. S., Decyk, V. K., Vieira, J...Mori, W. B. (2013). Numerical instability due to relativistic plasma drift in EM-PIC simulations. <i>Computer Physics Communications</i>. 184 (11), 2503-2514</p> <p>- N.º de citações Web of Science®: 35</p> <p>- N.º de citações Scopus: 38</p>

73	<p>Grismayer, T., Alves, E. P., Fonseca, R. A. & Silva, L. O. (2013). dc-Magnetic-Field Generation in Unmagnetized Shear Flows. <i>Physical Review Letters</i>. 111 (1), 015005</p> <p>- N.º de citações Web of Science®: 26</p> <p>- N.º de citações Scopus: 25</p>
74	<p>Fonseca, R. A., Vieira, J., Fiuza, F., Davidson, A., Tsung, F. S., Mori, W. B....Silva, L. O. (2013). Exploiting multi-scale parallelism for large scale numerical modelling of laser wakefield accelerators. <i>Plasma Physics and Controlled Fusion</i>. 55 (12), 124011</p> <p>- N.º de citações Web of Science®: 63</p> <p>- N.º de citações Scopus: 73</p>
75	<p>Grismayer, T., Alves, E. P., Fonseca, R. A. & Silva, L. O. (2013). Theory of multidimensional electron-scale instabilities in unmagnetized shear flows. <i>Plasma Physics and Controlled Fusion</i>. 55 (12), 124031</p> <p>- N.º de citações Web of Science®: 6</p> <p>- N.º de citações Scopus: 6</p>
76	<p>Vieira, J., Martins, J. L., Pathak, V. B., Fonseca, R. A., Mori, W. B. & Silva, L. O. (2012). Magnetically assisted self-injection and radiation generation for plasma-based acceleration. <i>Plasma Physics and Controlled Fusion</i>. 54 (12), 124044</p> <p>- N.º de citações Web of Science®: 13</p> <p>- N.º de citações Scopus: 16</p>
77	<p>Alves, E.P., Grismayer, T., Martins, S. F., Fiuza, F., Fonseca, R. A. & Silva, L. O. (2012). Large-scale magnetic field generation via the kinetic Kelvin-Helmholtz instability in unmagnetized scenarios. <i>Astrophysical Journal Letters</i>. 746 (2), L14</p> <p>- N.º de citações Web of Science®: 42</p> <p>- N.º de citações Scopus: 46</p>
78	<p>Vieira, J., Fonseca, R. A., Mori, W. B. & Silva, L. O. (2012). Ion motion in self-modulated plasma wakefield accelerators. <i>Physical Review Letters</i>. 109 (14)</p> <p>- N.º de citações Web of Science®: 36</p> <p>- N.º de citações Scopus: 42</p>
79	<p>Fiuza, F., Fonseca, R. A., Tonge, J. W., Mori, W. B. & Silva, L. O. (2012). Weibel-instability-mediated collisionless shocks in the laboratory with ultraintense lasers. <i>Physical Review Letters</i>. 108 (23)</p> <p>- N.º de citações Web of Science®: 95</p> <p>- N.º de citações Scopus: 91</p>
80	<p>Xia, G., Assmann, R., Fonseca, R. A., Huang, C. K., Mori, W. B., Silva, L. O....Muggli, P. (2012). A proposed demonstration of an experiment of proton-driven plasma wakefield acceleration based on CERN SPS. <i>Journal of Plasma Physics</i>. 78 (4), 347-353</p> <p>- N.º de citações Web of Science®: 18</p> <p>- N.º de citações Scopus: 20</p>
81	<p>Kneip, S., McGuffey, C., Martins, J. L., Bloom, M. S., Chvykov, V. V., Dollar, F. J....Thomas, A. G. R. (2012). Characterization of transverse beam emittance of electrons from a laser-plasma wakefield accelerator in the bubble regime using betatron x-ray radiation. <i>Physical Review Special Topics-Accelerators and Beams</i>. 15 (2), 21302</p> <p>- N.º de citações Web of Science®: 61</p> <p>- N.º de citações Scopus: 64</p>
82	<p>Haberberger, D., Tochitsky, S., Fiuza, F, Gong, C., Fonseca, R. A., Silva, L. O....Joshi, C. (2012). Collisionless shocks in laser-produced plasma generate monoenergetic high-energy proton beams. <i>Nature Physics</i>. 8 (1), 95-99</p> <p>- N.º de citações Web of Science®: 273</p> <p>- N.º de citações Scopus: 292</p>

83	<p>Stockem, A., Fiuza, F., Fonseca, R. A. & Silva, L. O. (2012). The impact of kinetic effects on the properties of relativistic electron-positron shocks. <i>Plasma Physics and Controlled Fusion</i>. 54 (12)</p> <p>- N.º de citações Web of Science®: 12</p> <p>- N.º de citações Scopus: 12</p>
84	<p>Stockem, A., Fiuza, F., Fonseca, R. A. & Silva, L. O. (2012). Acceleration in perpendicular relativistic shocks for plasmas consisting of leptons and hadrons. <i>Astrophysical Journal</i>. 755 (1), 68</p> <p>- N.º de citações Web of Science®: 12</p> <p>- N.º de citações Scopus: 14</p>
85	<p>Fiuza, F., Stockem, A., Boella, E., Fonseca, R. A., Silva, L. O., Haberberger, D....Joshi, C. (2012). Laser-driven shock acceleration of monoenergetic ion beams. <i>Physical Review Letters</i>. 109 (21)</p> <p>- N.º de citações Web of Science®: 136</p> <p>- N.º de citações Scopus: 149</p>
86	<p>Pathak, V. B., Vieira, J., Fonseca, R. A. & Silva, L. O. (2012). Effect of the frequency chirp on laser wakefield acceleration. <i>New Journal of Physics</i>. 14, 23057</p> <p>- N.º de citações Web of Science®: 38</p> <p>- N.º de citações Scopus: 40</p>
87	<p>Jacquemot S, Amiranoff S, Baton SD, Chanteloup JC, Labaune C, Koenig M...Klimo O (2011). Studying ignition schemes on European laser facilities. <i>Nuclear Fusion</i>. 51 (9), 94025</p> <p>- N.º de citações Web of Science®: 6</p> <p>- N.º de citações Scopus: 7</p>
88	<p>Trines, R. M. G. M., Fiuza, F., Bingham, R., Fonseca, R. A., Silva, L. O., Cairns, R. A....Norreys, P. A. (2011). Production of Picosecond, Kilojoule, and Petawatt Laser Pulses via Raman Amplification of Nanosecond Pulses. <i>Physical Review Letters</i>. 107 (10), 105002-0</p> <p>- N.º de citações Web of Science®: 47</p> <p>- N.º de citações Scopus: 48</p>
89	<p>Fiuza, F., Marti, M., Fonseca, R. A., Silva, L. O., Tonge, J. W., May, J....Mori, W. B. (2011). Efficient modeling of laser-plasma interactions in high energy density scenarios. <i>Plasma Physics and Controlled Fusion</i>. 53 (7), 74004-0</p> <p>- N.º de citações Web of Science®: 14</p> <p>- N.º de citações Scopus: 12</p>
90	<p>Trines, R. M. G. M., Fiuza, F., Bingham, R., Fonseca, R. A., Silva, L. O., Cairns, R. A....Norreys, P. A. (2011). Simulations of efficient Raman amplification into the multipetawatt regime. <i>Nature Physics</i>. 7 (1), 87-92</p> <p>- N.º de citações Web of Science®: 124</p> <p>- N.º de citações Scopus: 126</p>
91	<p>Vieira, J., Martins, S. F., Pathak, V. B., Fonseca, R. A., Mori, W. B. & Silva, L.O. (2011). Magnetic control of particle injection in plasma based accelerators. <i>Physical Review Letters</i>. 106 (22)</p> <p>- N.º de citações Web of Science®: 60</p> <p>- N.º de citações Scopus: 63</p>
92	<p>Fiuza, F., Fonseca, R. A., Silva, L. O., Tonge, J., May, J. & Mori, W. B. (2011). Three-dimensional simulations of laser-plasma interactions at ultrahigh intensities. <i>IEEE Transactions on Plasma Science</i>. 39 (11), 2618-2619</p> <p>- N.º de citações Web of Science®: 4</p> <p>- N.º de citações Scopus: 4</p>
93	<p>Martins, J. L., Martins, S. F., Fonseca, R. A. & Silva, L. O. (2011). X-ray modeling in laser-wakefield accelerators. <i>IEEE Transactions on Plasma Science</i>. 39 (11), 2826-2827</p> <p>- N.º de citações Web of Science®: 3</p> <p>- N.º de citações Scopus: 3</p>

94	<p>Abreu, P., Fonseca, R. A., Pereira, J. M. & Silva, L. O. (2011). PIC codes in new processors: a full relativistic PIC code in CUDA-enabled hardware with direct visualization. <i>IEEE Transactions on Plasma Science</i>. 39 (2), 675-685</p> <p>- N.º de citações Web of Science®: 8 - N.º de citações Scopus: 8</p>
95	<p>Trines, R. M. G., Fiuza, F., Fonseca, R. A., Silva, L. O., Bingham, R., Cairns, R. A....Norreys, P. (2011). Numerical simulation of plasma-based raman amplification of laser pulses to petawatt powers. <i>IEEE Transactions on Plasma Science</i>. 39 (11), 2622-2623</p>
96	<p>Kneip S, Nagel S, Bellei C, Cheklov O, Clarke R, Delerue N...Najmudin Z (2011). Study of near-GeV acceleration of electrons in a non-linear plasma wave driven by a self-guided laser pulse. <i>Plasma Physics and Controlled Fusion</i>. 53 (1), 14008</p> <p>- N.º de citações Web of Science®: 10 - N.º de citações Scopus: 11</p>
97	<p>May J, Tonge JW, Fiuza F, Fonseca, R. A., Silva LO, Ren C...Mori WB (2011). Mechanism of generating fast electrons by an intense laser at a steep overdense interface. <i>Physical Review E</i>. 84 (2), 25401</p> <p>- N.º de citações Web of Science®: 39 - N.º de citações Scopus: 38</p>
98	<p>Clayton, C. E., Ralph, J. E., Albert, F., Fonseca, R. A., Glenzer, S. H., Joshi, C....Froula, D. H. (2010). Self-guided laser wakefield acceleration beyond 1 GeV using ionization-induced injection. <i>Physical Review Letters</i>. 105 (10)</p> <p>- N.º de citações Web of Science®: 298 - N.º de citações Scopus: 320</p>
99	<p>Popp, A., Vieira, J., Osterhoff, J., Major, Z., Hörlein, R., Fuchs, M....Karsch, S. (2010). All-optical steering of laser-wakefield-accelerated electron beams. <i>Physical Review Letters</i>. 105 (21), 215001</p> <p>- N.º de citações Web of Science®: 67 - N.º de citações Scopus: 68</p>
100	<p>Martins, S.F., Fonseca, R. A., Vieira, J., Silva, L. O., Lu, W. & Mori, W. B. (2010). Modeling laser wakefield accelerator experiments with ultrafast particle-in-cell simulations in boosted frames. <i>Physics of Plasmas</i>. 17 (5), 056705</p> <p>- N.º de citações Web of Science®: 13 - N.º de citações Scopus: 15</p>
101	<p>Martins SF, Fonseca, R. A., Silva, LO, Lu W & Mori WB (2010). Numerical simulations of laser wakefield accelerators in optimal Lorentz frames. <i>Computer Physics Communications</i>. 181 (5), 869-875</p> <p>- N.º de citações Web of Science®: 26 - N.º de citações Scopus: 27</p>
102	<p>Trines RMGM, Bingham R, Najmudin Z, Mangles SPD, Silva LO, Fonseca, R. A....Norreys PA (2010). Electron trapping and acceleration on a downward density ramp: a two-stage approach. <i>New Journal of Physics</i>. 12 (na), 045027</p> <p>- N.º de citações Web of Science®: 16 - N.º de citações Scopus: 16</p>
103	<p>Gargaté, L, Fonseca, R. A., Niemiec J, Bingham R & Silva, LO (2010). The Nonlinear Saturation of the Non-resonant Kinetically Driven Streaming Instability. <i>Astrophysical Journal Letters</i>. 711 (2), L127-L132</p> <p>- N.º de citações Web of Science®: 22 - N.º de citações Scopus: 26</p>
104	<p>Bizarro, J. P. S., Alves, L. L. & Fonseca, R. A. (2010). Special Issue on the Numerical Simulation of Plasmas. <i>IEEE Transactions on Plasma Science</i>. 38 (9), 2082-2084</p>

105	<p>Fiore, M., Fiuza, F., Marti, M., Fonseca, R. A. & Silva, L. O. (2010). Relativistic effects on the collisionless-collisional transition of the filamentation instability in fast ignition. <i>Journal of Plasma Physics</i>. 76 (6), 813-832</p> <p>- N.º de citações Web of Science®: 4</p> <p>- N.º de citações Scopus: 4</p>
106	<p>Kneip S, McGuffey, C, Martins JL, Martins SF, Bellei C, Chvykov, V....Najmudin Z (2010). Bright spatially coherent synchrotron X-rays from a table-top source. <i>Nature Physics</i>. 5 (10), 980-983</p> <p>- N.º de citações Web of Science®: 303</p> <p>- N.º de citações Scopus: 322</p>
107	<p>Martins, S. F., Fonseca, R. A., Lu, W., Mori, W. B. & Silva, L. O. (2010). Exploring laser-wakefield-accelerator regimes for near-term lasers using particle-in-cell simulation in Lorentz-boosted frames. <i>Nature Physics</i>. 6 (4), 311-316</p> <p>- N.º de citações Web of Science®: 110</p> <p>- N.º de citações Scopus: 116</p>
108	<p>Silva, L. O., Fiuza, F., Fonseca, R. A., Martins, J. L., Martins, S. F., Vieira, J....Mori, W. B. (2009). Laser electron acceleration with 10 PW lasers. <i>Comptes Rendus Physique</i>. 10 (2-3), 167-175</p> <p>- N.º de citações Web of Science®: 3</p> <p>- N.º de citações Scopus: 3</p>
109	<p>Martins, S. F., Fonseca, R. A., Silva, L. O. & Mori, W. B. (2009). Ion dynamics and acceleration in relativistic shocks. <i>Astrophysical Journal Letters</i>. 695 (2), 189-193</p> <p>- N.º de citações Web of Science®: 117</p> <p>- N.º de citações Scopus: 122</p>
110	<p>Tzoufras, M., Lu, W., Tsung, F. S., Huang, C., Mori, W. B., Katsouleas, T....Silva, L. O. (2009). Beam loading by electrons in nonlinear plasma wakes. <i>Physics of Plasmas</i>. 16 (5)</p> <p>- N.º de citações Web of Science®: 72</p> <p>- N.º de citações Scopus: 80</p>
111	<p>Tonge, J., May, J., Mori, W. B., Fiuza, F., Martins, S. F., Fonseca, R. A....Ren, C. (2009). A simulation study of fast ignition with ultrahigh intensity lasers. <i>Physics of Plasmas</i>. 16 (5)</p> <p>- N.º de citações Web of Science®: 18</p> <p>- N.º de citações Scopus: 20</p>
112	<p>Huang, C., An, W., Decyk, V. K., Lu, W., Mori, W. B., Tsung, F. S....Paul, K. (2009). Recent results and future challenges for large scale particle-in-cell simulations of plasma-based accelerator concepts. <i>Journal of Physics: Conference Series (JPCS)</i>. 180</p> <p>- N.º de citações Web of Science®: 5</p> <p>- N.º de citações Scopus: 6</p>
113	<p>Froula, D. H., Clayton, C. E., Döppner, T., Fonseca, R. A., Marsh, K. A., Barty, C. J....Wang, T. (2009). Measurements of the critical power for self-injection of electrons in a laser wakefield accelerator. <i>Physical Review Letters</i>. 103 (21)</p> <p>- N.º de citações Web of Science®: 112</p> <p>- N.º de citações Scopus: 121</p>
114	<p>Kneip, S., Nagel, S. R., Martins, S. F., Mangles, S. P. D., Bellei, C., Chekhlov, O....Najmudin, Z. (2009). Near-GeV acceleration of electrons by a nonlinear plasma wave driven by a self-guided laser pulse. <i>Physical Review Letters</i>. 103 (3)</p> <p>- N.º de citações Web of Science®: 226</p> <p>- N.º de citações Scopus: 246</p>

115	Gargaté, L., Fonseca, R. A., Bingham, R. & Silva, L. O. (2008). Expansion of a plasma cloud into the solar wind. IEEE Transactions on Plasma Science. 36 (4), 1168-1169 - N.º de citações Web of Science®: 3 - N.º de citações Scopus: 4
116	Bamford, R. A., Gibson, K. J., Thornton, A. J., Bradford, J., Bingham, R., Gargaté, L...Stamper, R. (2008). The interaction of a flowing plasma with a dipole magnetic field: measurements and modelling of a diamagnetic cavity relevant to spacecraft protection. Plasma Physics and Controlled Fusion. 50 (12) - N.º de citações Web of Science®: 15 - N.º de citações Scopus: 26
117	Vieira, J., Fiúza, F., Fonseca, R. A., Silva, L. O., Huang, C. K., Lu, W....Antonsen Jr., T. (2008). One-to-one full-scale simulations of laser-wakefield acceleration using QuickPIC. IEEE Transactions on Plasma Science. 36 (4), 1722-1727 - N.º de citações Web of Science®: 7 - N.º de citações Scopus: 7
118	Peano, F., Martins, J. L., Fonseca, R. A., Peinetti, F., Mulas, R., Coppa, G....Silva, L. O. (2008). Expansion of nanoplasmas and laser-driven nuclear fusion in single exploding clusters. Plasma Physics and Controlled Fusion. 50 (12) - N.º de citações Web of Science®: 7 - N.º de citações Scopus: 8
119	Gargaté, L., Bingham, R., Fonseca, R. A., Bamford, R. A., Thornton, A., Gibson, K....Silva, L. O. (2008). Hybrid simulations of mini-magnetospheres in the laboratory. Plasma Physics and Controlled Fusion. 50 (7) - N.º de citações Web of Science®: 17 - N.º de citações Scopus: 16
120	Peano, F., Vieira, J., Fonseca, R. A., Mulas, R., Coppa, G. & Silva, L. O. (2008). Direct acceleration of ions with variable-frequency lasers. IEEE Transactions on Plasma Science. 36 (4), 1857-1865 - N.º de citações Web of Science®: 8 - N.º de citações Scopus: 9
121	Vieira, J., Martins, S. F., Fiúza, F., Fonseca, R. A., Silva, L. O., Huang, C....Antonsen Jr., T. (2008). Three-dimensional structure of the laser wakefield accelerator in the blowout regime. IEEE Transactions on Plasma Science. 36 (4), 1124-1125 - N.º de citações Web of Science®: 1 - N.º de citações Scopus: 1
122	Faure, J., Fonseca, R. A. & Neely, D. (2008). Guest editorial: Laser and plasma accelerators workshop 2007. IEEE Transactions on Plasma Science. 36 (4), 1690-1693
123	Glinec, Y., Faure, J., Lifschitz, A., Vieira, J., Fonseca, R. A., Silva, L. O....Malka, V. (2008). Direct observation of betatron oscillations in a laser-plasma electron accelerator. EPL - Europhysics Letters. 81 (6) - N.º de citações Web of Science®: 38 - N.º de citações Scopus: 38
124	Tzoufras, M., Lu, W., Tsung, F. S., Huang, C. K., Mori, W. B., Katsouleas, T....Silva, L. O. (2008). Beam loading in the nonlinear regime of plasma-based acceleration. Physical Review Letters. 101 (14) - N.º de citações Web of Science®: 169 - N.º de citações Scopus: 183

125	<p>Fonseca, R. A., Martins, S. F., Silva, L. O., Tonge, J. W., Tsung, F. S. & Mori, W. B. (2008). One-to-one direct modeling of experiments and astrophysical scenarios: pushing the envelope on kinetic plasma simulations. <i>Plasma Physics and Controlled Fusion</i>. 50 (12)</p> <p>- N.º de citações Web of Science®: 135 - N.º de citações Scopus: 141</p>
126	<p>Tzoufras, M., Ren, C., Tsung, F. S., Tonge, J. W., Mori, W. B., Fiore, M....Silva, L. O. (2007). Stability of arbitrary electron velocity distribution functions to electromagnetic modes. <i>Physics of Plasmas</i>. 14 (6)</p> <p>- N.º de citações Web of Science®: 7 - N.º de citações Scopus: 7</p>
127	<p>Peano, F., Martins, J. L., Fonseca, R. A., Silva, L. O., Coppa, G., Peinetti, F....Mulas, R. (2007). Dynamics and control of the expansion of finite-size plasmas produced in ultraintense laser-matter interactions. <i>Physics of Plasmas</i>. 14 (5)</p> <p>- N.º de citações Web of Science®: 27 - N.º de citações Scopus: 30</p>
128	<p>Lu, W., Tzoufras, M., Joshi, C., Tsung, F. S., Mori, W. B., Vieira, J....Silva, L. O. (2007). Generating multi-GeV electron bunches using single stage laser wakefield acceleration in a 3D nonlinear regime. <i>Physical Review Special Topics-Accelerators and Beams</i>. 10 (6)</p> <p>- N.º de citações Web of Science®: 605 - N.º de citações Scopus: 630</p>
129	<p>Gargaté, L., Bingham, R., Fonseca, R. A. & Silva, L. O. (2007). dHybrid: a massively parallel code for hybrid simulations of space plasmas. <i>Computer Physics Communications</i>. 176 (6), 419-425</p> <p>- N.º de citações Web of Science®: 43 - N.º de citações Scopus: 43</p>
130	<p>Vieira, J, Fonseca, R. A., Silva, L. O., Lu, W., Tzoufras, M., Tsung, F. S....Mori, W. B. (2007). Sheet crossing and wave breaking in the laser wakefield accelerator. <i>International Journal of Modern Physics B</i>. 21 (3-4), 439-446</p>
131	<p>Murphy, C. D., Trines, R. M. G. M., Vieira, J., Reitsma, A. J. W., Bingham, R., Collier, J. L....Najmudin, Z. (2006). Evidence of photon acceleration by laser wake fields. <i>Physics of Plasmas</i>. 13 (3)</p> <p>- N.º de citações Web of Science®: 86 - N.º de citações Scopus: 86</p>
132	<p>Tzoufras, M., Ren, C., Tsung, F. S., Tonge, J. W., Mori, W. B., Fiore, M....Silva, L. O. (2006). Space-charge effects in the current-filamentation or Weibel instability. <i>Physical Review Letters</i>. 96 (10)</p> <p>- N.º de citações Web of Science®: 78 - N.º de citações Scopus: 83</p>
133	<p>Tsung, F. S., Lu, W., Tzoufras, M., Mori, W. B., Joshi, C., Vieira, J....Fonseca, R. A. (2006). Simulation of monoenergetic electron generation via laser wakefield accelerators for 5–25TW lasers. <i>Physics of Plasmas</i>. 13 (5)</p> <p>- N.º de citações Web of Science®: 79 - N.º de citações Scopus: 80</p>
134	<p>Deng, S., Barnes, C. D., Clayton, C. E., O'Connell, C., Decker, F. J., Fonseca, R. A....Zhou, M. (2006). Hose instability and wake generation by an intense electron beam in a self-ionized gas. <i>Physical Review Letters</i>. 96 (4)</p> <p>- N.º de citações Web of Science®: 12 - N.º de citações Scopus: 14</p>

135	Ren, C., Tzoufras, M., Tonge, J. W., Mori, W. B., Tsung, F. S., Fiore, M....Heron, A. (2006). A global simulation for laser-driven MeV electrons in 50-micrometer-diameter fast ignition targets. <i>Physics of Plasmas</i> . 13 (5) - N.º de citações Web of Science®: 28 - N.º de citações Scopus: 28
136	Peano, F., Fonseca, R. A., Martins, J. L. & Silva, L. O. (2006). Controlled shock shells and intracluster fusion reactions in the explosion of large clusters. <i>Physical Review A - Atomic, Molecular, and Optical Physics</i> . 73 (5) - N.º de citações Web of Science®: 23 - N.º de citações Scopus: 24
137	Sorasio, G., Marti, M., Fonseca, R. & Silva, L. O. (2006). Very high mach-number electrostatic shocks in collisionless plasmas. <i>Physical Review Letters</i> . 96 (4) - N.º de citações Web of Science®: 73 - N.º de citações Scopus: 74
138	Loureiro, J., Mendonça, J. T., Brinca, A. L., Fonseca, R. A., Silva, L. O. & Vieira, I. (2005). Creation and expansion of a magnetized plasma bubble for plasma propulsion. <i>Journal of Atmospheric And Solar-Terrestrial Physics</i> . 67 (14), 1315-1320 - N.º de citações Web of Science®: 4 - N.º de citações Scopus: 4
139	Mendonça, J. T., Brinca, A. L., Fonseca, R. A., Loureiro, J., Silva, L. O. & Vieira, I. (2005). Physical problems of artificial magnetospheric propulsion. <i>Journal of Plasma Physics</i> . 71 (4), 495-501 - N.º de citações Web of Science®: 5 - N.º de citações Scopus: 7
140	Martins, S. F., Fonseca, R. A., Silva, L. O., Tsung, F. S., Mori, W. B., Deng, S....Katsouleas. T. C. (2005). Three-dimensional wakes driven by intense relativistic beams in gas targets. <i>IEEE Transactions on Plasma Science</i> . 33 (2), 558-559 - N.º de citações Web of Science®: 4 - N.º de citações Scopus: 3
141	Medvedev, M. V., Fiore, M., Fonseca, R. A., Silva, L. O. & Mori, W. B. (2005). Long-time evolution of magnetic fields in relativistic GRB shocks. <i>Astrophysical Journal</i> . 618 (2), L75-L78 - N.º de citações Web of Science®: 145 - N.º de citações Scopus: 139
142	Peano, F., Fonseca, R. A. & Silva, L. O. (2005). Dynamics and control of shock shells in the coulomb explosion of very large deuterium clusters. <i>Physical Review Letters</i> . 94 (3) - N.º de citações Web of Science®: 49 - N.º de citações Scopus: 52
143	Martins, S. F., Santos, J. P., Fonseca, R. A. & Silva, L. O. (2004). Pulse compression and frequency up-shift with nonlinear plasma waves. <i>Physica Scripta</i> . T113, 118-120 - N.º de citações Web of Science®: 2 - N.º de citações Scopus: 2
144	Ren, C., Tzoufras, M., Tsung, F. S., Mori, W. B., Amorini, S., Fonseca, R. A....Heron, A. (2004). Global simulation for laser-driven MeV electrons in fast ignition. <i>Physical Review Letters</i> . 93 (18) - N.º de citações Web of Science®: 71 - N.º de citações Scopus: 75

145	<p>Habara, H., Lancaster, K. L., Karsch, S., Murphy, C. D., Norreys, P. A., Evans, R. G....Silva, J. (2004). Ion acceleration from the shock front induced by hole boring in ultraintense laser-plasma interactions. <i>Physical Review E</i>. 70 (4)</p> <p>- N.º de citações Web of Science®: 60</p> <p>- N.º de citações Scopus: 56</p>
146	<p>Tsung, F. S., Narang, R., Mori, W. B., Joshi, C., Fonseca, R. A. & Silva, L. O. (2004). Near-GeV-energy laser-wakefield acceleration of self-injected electrons in a centimeter-scale plasma channel. <i>Physical Review Letters</i>. 93 (18)</p> <p>- N.º de citações Web of Science®: 152</p> <p>- N.º de citações Scopus: 167</p>
147	<p>Silva, L. O., Marti, M., Davies, J. R., Fonseca, R. A., Ren, C., Tsung, F. S....Mori, W. B. (2004). Proton shock acceleration in laser-plasma interactions. <i>Physical Review Letters</i>. 92 (1)</p> <p>- N.º de citações Web of Science®: 377</p> <p>- N.º de citações Scopus: 325</p>
148	<p>Lopes, N. C., Figueira, G., Silva, L. O., Dias, J. M., Fonseca, R. A., Cardoso, L....Mendonça J. T. (2003). Plasma channels produced by a laser-triggered high-voltage discharge. <i>Physical Review E</i>. 68 (3)</p> <p>- N.º de citações Web of Science®: 15</p> <p>- N.º de citações Scopus: 14</p>
149	<p>Fonseca, R. A., Silva, L. O., Tonge, J. W., Mori, W. B. & Dawson, J. M. (2003). Three-dimensional Weibel instability in astrophysical scenarios. <i>Physics of Plasmas</i>. 10 (5), 1979-1984</p> <p>- N.º de citações Web of Science®: 100</p> <p>- N.º de citações Scopus: 102</p>
150	<p>Silva, L. O., Fonseca, R. A., Tonge, J. W., Dawson, J. M., Mori, W. B. & Medvedev, M. V. (2003). Interpenetrating plasma shells: near-equipartition magnetic field generation and nonthermal particle acceleration. <i>Astrophysical Journal Letters</i>. 596 (1), L121-L124</p> <p>- N.º de citações Web of Science®: 303</p> <p>- N.º de citações Scopus: 314</p>
151	<p>Deng, S., Barnes, C. D., Clayton, C. E., O'Connell, C. L., Decker, F. J., Öz, E....Tsung, F. S. (2003). Plasma wakefield acceleration in self-ionized gas or plasmas. <i>Physical Review E</i>. 68 (4)</p> <p>- N.º de citações Web of Science®: 11</p> <p>- N.º de citações Scopus: 10</p>
152	<p>Ren, C., Duda, B. J., Evans, R. G., Fonseca, R. A., Hemker, R. G. & Mori, W. B. (2002). On the mutual interaction between laser beams in plasmas. <i>Physics of Plasmas</i>. 9 (5), 2354-2363</p> <p>- N.º de citações Web of Science®: 28</p> <p>- N.º de citações Scopus: 29</p>
153	<p>Silva, L. O., Fonseca, R. A., Tonge, J. W., Mori, W. B. & Dawson, J. M. (2002). On the role of the purely transverse Weibel instability in fast ignitor scenarios. <i>Physics of Plasmas</i>. 9 (6), 2458-2461</p> <p>- N.º de citações Web of Science®: 208</p> <p>- N.º de citações Scopus: 208</p>
154	<p>Fonseca, R. A., Silva, L. O., Tsung, F. S., Decyk, V. K., Lu, W., Ren, C....Adam, J. C. (2002). OSIRIS: a three-dimensional, fully relativistic particle in cell code for modeling plasma based accelerators. <i>Lecture Notes in Computer Science</i>. 2331 (3), 342-351</p> <p>- N.º de citações Web of Science®: 531</p> <p>- N.º de citações Scopus: 502</p>

155	Fonseca, R. A., Silva, L. O., Tonge, J. W., Hemker, R. G., Dawson, J. M. & Mori, W. B. (2002). Three-dimensional particle-in-cell simulations of the Weibel instability in electron-positron plasmas. <i>IEEE Transactions on Plasma Science</i> . 30 (1), 28-29 - N.º de citações Web of Science®: 15 - N.º de citações Scopus: 14
156	Muggli, P., Lee, S., Katsouleas, T., Assmann, R., Decker, F. J., Hogan, M. J....Wang, S. (2001). Collective refraction of a beam of electrons at a plasma-gas interface. <i>Physical Review Special Topics-Accelerators and Beams</i> . 4 (9) - N.º de citações Web of Science®: 16 - N.º de citações Scopus: 13
157	Muggli, P., Lee, S., Katsouleas, T., Assmann, R., Decker, F.-J., Hogan, M. J....Wang, S. (2001). Boundary effects: refraction of a particle beam. <i>Nature</i> . 411 (6833), 43-43 - N.º de citações Web of Science®: 27 - N.º de citações Scopus: 23
158	Eloy, M., Azambuja, R., Mendonça, J. T. & Bingham, R. (2001). Interaction of ultrashort high-intensity laser pulses with atomic clusters. <i>Physics of Plasmas</i> . 8 (3), 1084-1086 - N.º de citações Web of Science®: 50 - N.º de citações Scopus: 46
159	Eloy, M., Fonseca, R. A., Mendonça, J. T. & Bingham, R. (2001). MeV ions generated via coulombic explosions of atomic clusters. <i>Physica Scripta</i> . T89, 60-62 - N.º de citações Web of Science®: 11 - N.º de citações Scopus: 11
160	Ren, C., Hemker, R. G., Fonseca, R. A., Duda, B. J. & Mori, W. B. (2000). Mutual attraction of laser beams in plasmas: braided light. <i>Physical Review Letters</i> . 85 (10), 2124-2127 - N.º de citações Web of Science®: 53 - N.º de citações Scopus: 56
161	Fonseca, R. A., Eloy M, Figueira G & Neely D (1999). Three-dimensional characterization of high-density non-cylindrical pulsed gas jets. <i>Journal of Physics D: Applied Physics</i> . 32 (8), L35-L43 - N.º de citações Web of Science®: 22 - N.º de citações Scopus: 24

• Livros e Capítulos de Livros

- Capítulo de livro

1	Medvedev MV, Silva, J., Fonseca, R. A., J W Tonge & Mori, W. B. (2013). Kinetics of Particles in Relativistic Collisionless Shocks. In <i>Particle Acceleration in Astrophysical Plasmas: Geospace and Beyond</i> .
2	Gargaté, L, Fonseca, R. A., Bamford RA, Bingham R & Silva, J. (2009). Solar wind interaction with artificial atmospheres. In <i>Handbook on Solar Wind: Effects, Dynamics and Interactions</i> .

• Conferências/Workshops e Comunicações

- Publicação em atas de evento científico

1	M K Weikum, T. Akhter, P D Alesini, A S Alexandrova, M P Anania, N E Andreev...A Zigler (2019). EuPRAXIA – a compact, cost-efficient particle and radiation source. In <i>25TH INTERNATIONAL CONFERENCE ON THE APPLICATION OF ACCELERATORS IN RESEARCH AND INDUSTRY</i> . (pp. 040012). Texas, USA - N.º de citações Scopus: 4
---	---

2	Malaca B, Fonseca, R. A. & Vieira, J. (2018). Machine learning controlled laser wakefield acceleration simulations. In 45th EPS Conference on Plasma Physics (EPS 2018). (pp. 901-904).
3	Pardal M, Sainte-Marie A, Fonseca, R. A. & A. Reboul-Salze (2018). Modeling Ultra-high Frequency Radiation Emission in PIC Codes. In 45th EPS Conference on Plasma Physics (EPS 2018). (pp. 1712-1715).
4	Walker, P. A., Alesini, P. D., Alexandrova, A. S., Anania, M. P., Andreev, M. E., Andriyash, I....Zigler, A. (2017). Horizon 2020 EuPRAXIA design study. In Journal of Physics: Conference Series. Copenhagen: IOP Publishing. - N.º de citações Web of Science®: 61 - N.º de citações Scopus: 69
5	Davidson, A., Tableman, A., Yu, P., An, W., Tsung, F. S., Lu, W....Mori, W. B. (2017). An examination of the scaling laws for LWFA in the self-guided nonlinear blowout regime. In 17th Advanced Accelerator Concepts Workshop, AAC 2016. National Harbor, MD, USA: American Institute of Physics. - N.º de citações Web of Science®: 1 - N.º de citações Scopus: 1
6	Silva, J., Trines, R. M. G., Alves EP, Fonseca, R. A., Mendonça JT, Bingham R...Silva, J. (2016). Raman scattering for intense high orbital angular momentum harmonic generation. In 2016 Conference on Lasers and Electro-Optics, CLEO 2016.
7	Vranic, M., Grismayer, T., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2016). QED vs. classical radiation reaction in the transition regime. In 17th Advanced Accelerator Concepts Workshop. (pp. 050006). National Harbor, MD: AIP Publishing.
8	Bracco C, Amorim, L. D., Assmann, R., Batsch F, Bingham R, Burt G...Xia, G. (2016). AWAKE: A Proton-Driven Plasma Wakefield Acceleration Experiment at CERN. In NUCLEAR AND PARTICLE PHYSICS PROCEEDINGS. (pp. 175-180). Valencia: Elsevier.
9	Yu, P., Davidson, A., Tableman, A., Decyk, V. K., Tsung, F. S., Vieira, J....Mori, W. B. (2016). Modeling of laser wakefield acceleration in Lorentz boosted frame using a Quasi-3D OSIRIS algorithm. In 17th Advanced Accelerator Concepts Workshop. (pp. 040020). National Harbor, MD: AIP Publishing.
10	Amorim, L. D., Vieira, J., Fonseca, R. A. & Silva, L. O. (2016). Positron plasma wakefield acceleration in a self-driven hollow channel. In AIP Conference Proceedings. (pp. 070001). National Harbor, MD - N.º de citações Web of Science®: 1 - N.º de citações Scopus: 1
11	Silva, J., Fonseca, R. A. & Silva, J. (2014). Multidimensional plasma wake excitation in the non-linear blowout regime. In CAS-CERN Accelerator School: Plasma Wake Acceleration 2014, Proceedings. (pp. 79-107). - N.º de citações Scopus: 2
12	Stockem, A., Fiuza, F., Boella, E., Fonseca, R. A., Silva, L. O., Joshi, C....Mori, W. B. (2013). Theoretical studies of collisionless shocks for laser-acceleration of ions. In Esarey, E; Schroeder, CB; Leemans, WP; Ledingham, KWD; Jaroszynski, DA (Ed.), Proc. SPIE 8779, Laser Acceleration of Electrons, Protons, and Ions II; and Medical Applications of Laser-Generated Beams of Particles II; and Harnessing Relativistic Plasma Waves III, 87790B. (pp. 87790B-87790B-6). Praga, Rep. Checa: SPIE. - N.º de citações Scopus: 1
13	Davidson AW, Zheng, M., Lu W, Xu, X, Joshi C, Silva LO...Mori WB (2012). 3D simulations of pre-ionized and two-stage ionization injected laser wakefield accelerators. In Advanced Accelerator Concepts. (pp. 273-277). Austin, Texas

14	Marsh, K. A., Clayton, C. E., Joshi, C., Lu, W., Mori, W. B., Pak, A....Pollock, B. B. (2011). Laser wakefield acceleration beyond 1 GeV using ionization induced injection. In 2011 Particle Accelerator Conference. (pp. 707-711). New York: PAC'11 OC and IEEE.
15	Xia, G., Caldwell, A., Lotov, K., Pukhov, A., Assmann, R., Zimmermann, F....Muggli, P. (2011). A proposed experimental test of proton-driven plasma wakefield acceleration based on CERN SPS . In 2011 Particle Accelerator Conference. (pp. 718-720). New York: PAC'11 OC and IEEE.
16	Davidson, A. W., Lu, W., Joshi, C., Silva, L. O., Martins, J. L., Fonseca, R. A....Mori, W. B. (2011). Numerical study of self and controlled injection in 3-Dimensional laser-driven wakefields. In Todd Satogata and Kevin Brown (Ed.), 2011 Particle Accelerator Conference. (pp. 286-288). New York: PAC'11 OC and IEEE.
17	Abreu, P., Fonseca, R. & Silva, L. O. (2011). DataLight: data transfer and logging of large output applications in Grid environments. In IBERGRID - 5th Iberian Grid Infrastructure Conference . (pp. 224-232). Santander
18	Monteiro, J., Garrido, N. & Fonseca, R. (2011). Efficient supercapacitor energy usage in mobile phones. In IEEE International Conference on Consumer Electronics -Berlin (ICCE-Berlin). (pp. 318-321). Berlin: IEEE. - N.º de citações Scopus: 10
19	Monteiro, J., Garrido, N. & Fonseca, R. A. (2011). An experimental study of an efficient supercapacitor stacking scheme to power mobile phones. In IEEE 33rd International Telecommunications Energy Conference (INTELEC). Amsterdam: IEEE. - N.º de citações Scopus: 1
20	Martins, J. L., Martins, S. F., Fonseca, R. A. & Silva, L. O. (2010). Radiation in 1.5 GeV and 12 GeV laser wakefield acceleration stages from PIC simulations. In Steven H. Gold and Gregory S. Nusinovich (Ed.), ADVANCED ACCELERATOR CONCEPTS: 14th Advanced Accelerator Concepts Workshop, AIP Conference Proceedings. (pp. 191-196). Annapolis, USA: AIP. - N.º de citações Web of Science®: 3 - N.º de citações Scopus: 2
21	Martins, S. F., Fonseca, R. A., Silva, L. O., Lu, W. & Mori, W. B. (2010). Boosted frame PIC simulations of LWFA: towards the energy frontier. In Martin Comyn, Shane Koscielniak, Volker R.W. Schaa, Paul W. Schmor (Ed.), 2009 Particle Accelerator Conference. (pp. 3160-3162). Vancouver
22	Martins, J. L., Martins, S. F., Fonseca, R. A., Silva, L. O., Joshi, C. & Mori, W. (2010). Emission of collimated x-ray radiation in laser-wakefield experiments using particle tracking in PIC simulations. In Martin Comyn, Shane Koscielniak, Volker R. W. Schaa, Paul W. Schmor (Ed.), 2009 Particle Accelerator Conference. (pp. 2958-2960). Vancouver
23	Mori, W. B., An, W., Decyk, V. K., Lu, W., Tsung, F. S., Fonseca, R. A....Antonsen, T. (2010). Dream beams: extreme-scale computing enabling new accelerator technologies for the energy and intensity frontiers. In Scientific Discovery through Advanced Computing (SciDAC). (pp. 261-276). Chatanooga: Oak Ridge National Laboratory.
24	Martins, S. F., Fonseca, R. A., Mori, W. B. & Silva, L. O. (2010). Exploring the future of laser-plasma acceleration with massively parallel simulations in OSIRIS. In Dan Dumitras (Ed.), Light at Extreme Intensities - LEI 2009. (pp. 301-304). Brasov: American Institute of Physics.
25	J-L Vay, D L Bruhwiler, C G R Geddes, W M Fawley, Martins, S. F., J R Cary...Silva, L.O. (2009). Simulating relativistic beam and plasma systems using an optimal boosted frame. In Journal of Physics: Conference Series. (pp. 012006).: IOP Publishing. - N.º de citações Web of Science®: 9 - N.º de citações Scopus: 12

26	C. E. Clayton, Martins, S. F., Martins, J. L., D. K. Johnson, S. Wang, Marsh KA...Joshi C (2009). Towards a compact 0.1-10 MeV broadband betatron photon source. In Harnessing Relativistic Plasma Waves as Novel Radiation Sources from Terahertz to X-Rays and Beyond, Proc. of SPIE. (pp. 735902). Prague, Czech Republic
27	Abreu P, Fonseca, R. A. & Silva, L. O. (2009). Streaming the Boris pusher: A CUDA implementation. In 13th Advanced Accelerator Concepts Workshop. - N.º de citações Web of Science®: 3 - N.º de citações Scopus: 2
28	Paul, K., Huang, C. K., D L Bruhwiler, Mori, W. B., Tsung, F. S., E Cormier-Michel...Silva, L. O. (2009). Benchmarking the codes VORPAL, OSIRIS, and QuickPIC with Laser Wakefield Acceleration Simulations. In AIP Conference Proceedings. (pp. 315-320). Santa Cruz, USA - N.º de citações Web of Science®: 2 - N.º de citações Scopus: 2
29	Abreu, P., Fonseca, R. A. & Silva, L. O. (2008). Migrating large output applications to Grid environments: a simple library for threaded transfers with gLite. In Fernando Silva, Gaspar Barreira and Lúcia Ribeiro (Ed.), IBERGRID 2008 - The 2nd Iberian Grid Infrastructure Conference. (pp. 311-322). Porto: Netbiblo.
30	Marti, M., Gargaté, L., Fonseca, R. A., Alves, L. L., Bizarro, J. P. S., Fernandes, P....Silva, L. O. (2008). The IST Cluster: an integrated infrastructure for parallel applications in Physics and Engineering. In Fernando Silva, Gaspar Barreira and Lúcia Ribeiro (Ed.), IBERGRID 2008 - The 2nd Iberian Grid Infrastructure Conference. (pp. 79-90). Porto: Netbiblo.
31	C G R Geddes, D L Bruhwiler, J R Cary, Mori, W. B., J-L Vay, Martins, S. F....W P Leemans (2008). Computational studies and optimization of wakefield accelerators. In Journal of Physics: Conference Series. (pp. 012002): IOP Publishing. - N.º de citações Web of Science®: 21 - N.º de citações Scopus: 18
32	Lu, W., Tzoufras M, Tsung, F. S., Joshi C, Mori, W. B., Silva, J....Silva, J. (2007). Designing LWFA in the blowout regime. In 2007 IEEE Particle Accelerator Conference (PAC). (pp. 3050-3051). Albuquerque, NM: IEEE. - N.º de citações Scopus: 2
33	Tzoufras M, Lu, W., Tsung, F. S., Ren C, Mori, W. B., Silva, J....Silva, J. (2007). The physical picture of beam loading in the blowout regime. In 2007 IEEE Particle Accelerator Conference (PAC). (pp. 3061-3063). Albuquerque, NM: IEEE. - N.º de citações Scopus: 2
34	Fonseca, R. A. (2005). Visualization and Data Analysis of Computer Simulations. In Proceedings of 7th ISSS. (pp. 67-70). Kyoto, Japan
35	Fonseca, R. A. (2005). OSIRIS.FRAMEWORK: an integrated tool for modeling astrophysical and laboratory plasmas. In Congreso de Métodos Numéricos en Ingeniería. Granada: SEMNI.
36	Suzhi Deng, Muggli, P., C. D. Barnes, C. E. Clayton, F. J. Decker, Fonseca, R. A....M. Zhou (2004). Modeling of E-164 X Experiment. In Advanced Accelerator Concepts. (pp. 936-941). Stony Brook, USA: American Institute of Physics, 2 Huntington Quadrangle, Suite 1 NO 1, Melville, NY, 11747-4502, USA,.
37	Eloy M, Fonseca, R. A., Desai T, Mendonça JT & Bingham R (1999). High Energy Ions Produced by the Interaction of Ultra-Short Laser Pulses with Atomic Clusters. In Inertial Fusion Science and Applications 1999. San Francisco, USA

1	Li F, Decyk, V. K., Miller K, Tableman, A., Tsung, F. S., Vranic, M....Mori, W. B. (2020). Accurately pushing relativistic particles in strong field. 62nd Annual Meeting of the APS Division of Plasma Physics.
2	Fonseca, R. A. (2020). OSIRIS: A highly scalable kinetic plasma simulation platform. 40th International Workshop on High- Energy-Density Physics with Intense Ion and Laser Beams.
3	Vieira, J., Pardal M, Mendonça JT, Fonseca, R. A. & A Gover (2020). Generalised superradiance: producing temporally coherent broadband radiation. 62nd Annual Meeting of the APS Division of Plasma Physics.
4	Zhang W, Grismayer, T., Schoeffler, K. M., Fonseca, R. A. & Silva, L. O. (2020). High-order harmonic generation in an electron-positron-ion plasma. 62nd Annual Meeting of the APS Division of Plasma Physics.
5	Helm, A, Vieira, J., Fonseca, R. A., Silva, L. O. & Muggli, P. (2020). Full-scale modeling of ionization seeding in the AWAKE experiment at CERN. 62nd Annual Meeting of the APS Division of Plasma Physics.
6	Fonseca, R. A., Helm, A, Malaca B, Pardal M, Vieira, J. & Silva, L. O. (2020). The ZPIC educational code suite. 62nd Annual Meeting of the APS Division of Plasma Physics.
7	Helm, A, Cruz F, Fonseca, R. A. & Silva, L. O. (2020). Nata: Python package for post-processing and visualization of simulation output for particle-in-cell codes. 62nd Annual Meeting of the APS Division of Plasma Physics.
8	Malaca B, Vieira, J., Fonseca, R. A., Dustin H. Froula & Palastro J (2020). Superluminal plasma wakefield acceleration. 62nd Annual Meeting of the APS Division of Plasma Physics.
9	Fonseca, R. A., Dalichaouch T, Cruz F, Del Gaudio F, Helm, A, Lee, R....Silva, L. O. (2020). New developments in the OSIRIS 4.0 framework. 62nd Annual Meeting of the APS Division of Plasma Physics.
10	Grismayer, T., Del Gaudio F, Fonseca, R. A. & Silva, L. O. (2020). Theory of plasma wakes driven by Compton scattering. 62nd Annual Meeting of the APS Division of Plasma Physics.
11	Pardal M, Fonseca, R. A. & Vieira, J. (2020). Radiative reflection: high frequency radiation emission using evanescent light waves in plasma mirrors. 62nd Annual Meeting of the APS Division of Plasma Physics.
12	Fonseca, R. A. (2019). OSIRIS: A Highly Scalable High-Performance Computing Application for Plasma Physics. 61th Annual Meeting of the APS Division of Plasma Physics.
13	Zhang W, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2019). High-order harmonic generation in an electron-positron-ion plasma. EPS 46th Conference on Plasma Physics.
14	Fonseca, R. A. (2019). Challenges for numerical simulations at ultra-high intensity laser interaction. SPIE Optics+Electronics.
15	Winjum, BJ, Wen H., Miller K, Chase S., Zhao, Y., An, W....Wen H (2019). Bringing Research Codes into the Classroom: A Case Study with Particle-In-Cell and Vlasov-Fokker-Planck Codes. 61th Annual Meeting of the APS Division of Plasma Physics.
16	Grismayer, T., Schoeffler, K. M., Uzdensky D, Fonseca, R. A. & Silva, L. O. (2019). Radiative cooling effect on the stability of magnetic islands. 61th Annual Meeting of the APS Division of Plasma Physics.
17	Silva T, Vieira, J., Schoeffler, K. M., Hoshino M, Fonseca, R. A. & Silva, L. O. (2019). Anisotropic heating and magnetic field generation due to Raman scattering in laser-plasma interactions. EPS 46th Conference on Plasma Physics.

18	Marko W. Mayr, Luke Ceurvorst, Muhammad F. Kasim, J.D. Sadler, Kevin Glize, Alex Savin...Norreys, P. (2019). Wakefields in a cluster plasma. 61th Annual Meeting of the APS Division of Plasma Physics.
19	Inchingolo, G, Grismayer, T., Loureiro, N. F., Fonseca, R. A. & Silva, L. O. (2019). Ion versus electron heating in the non linear phase of the collisionless MRI. EPS 46th Conference on Plasma Physics.
20	Fonseca, R. A., Boella E, Shulka N & Lapenta G (2019). A head-on collision between collisionless shock waves leads to strong magnetic fields and significant slowdown. 61th Annual Meeting of the APS Division of Plasma Physics.
21	Fonseca, R. A., Calado R, Malaca B, Pardal M, Helm, A, Mori, W. B...Vieira, J. (2019). The ZPIC educational code suite. EPS 46th Conference on Plasma Physics.
22	Shulka N, Schoeffler, K. M., Boella E, Vieira, J. & Fonseca, R. A. (2019). Interplay between the Weibel instability and the Biermann battery in realistic laser-solid interactions. 61th Annual Meeting of the APS Division of Plasma Physics.
23	Fonseca, R. A., Dalichaouch T, Davidson, A., Cruz F, Del Gaudio F, Inchingolo, G...Silva, L. O. (2019). OSIRIS 4.0: A state of the art framework for kinetic plasma simulations. EPS 46th Conference on Plasma Physics.
24	Fonseca, R. A., Dalichaouch T, Davidson, A., Cruz F, Del Gaudio F, Inchingolo, G...Silva, L. O. (2019). New developments in the OSIRIS 4.0 framework. 61th Annual Meeting of the APS Division of Plasma Physics.
25	Malaca B, Vieira, J. & Fonseca, R. A. (2019). Genetic algorithm controlled 2D laser wakefield acceleration simulations. EPS 46th Conference on Plasma Physics.
26	Zhang W, Grismayer, T., Del Gaudio F, Fonseca, R. A. & Silva, L. O. (2019). Beam-beam collision in the high-disruption regime. 61th Annual Meeting of the APS Division of Plasma Physics.
27	Fonseca, R. A., Shulka N, Schoeffler, K. M., Boella E, Vieira, J. & Silva, L. O. (2019). Weibel and Biermann fields simulated self-consistently in laser-plasma interaction. EPS 46th Conference on Plasma Physics.
28	Xu, X., Li F, Tsung, F. S., Dalichaouch T, An, W., Decyk, V. K...W. B. Mori (2019). On the self-forces of relativistic particles moving in "vacuum" in PIC codes. 61th Annual Meeting of the APS Division of Plasma Physics.
29	Fonseca, R. A., Vieira, J., Pardal M, Martins, J. L., Mendonça JT & Quérá F (2019). Radiation emission from twisted plasma acceleration. EPS 46th Conference on Plasma Physics.
30	Schoeffler, K. M., Grismayer, T., Uzdensky D, Fonseca, R. A. & Silva, L. O. (2019). Limits on the compression of magnetic islands in strongly radiative magnetic reconnection. 61th Annual Meeting of the APS Division of Plasma Physics.
31	Del Gaudio F, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2019). Excitation of a plasma wakefield by incoherent radiation via Compton scattering. EPS 46th Conference on Plasma Physics.
32	Vieira, J., Pardal M, Mendonça JT & Fonseca, R. A. (2019). Superradiant nonlinear Thomson scattering. 61th Annual Meeting of the APS Division of Plasma Physics.
33	Trines, R. M. G., Alves, E. P., Webb E, Vieira, J., Fiuza, F., Fonseca, R. A...Bingham R (2019). Novel criteria for efficient Raman or Brillouin amplification of laser beams in plasma. EPS 46th Conference on Plasma Physics.
34	Del Gaudio F, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2019). Wakefield acceleration by incoherent radiation. 61th Annual Meeting of the APS Division of Plasma Physics.

35	Helm, A, Vieira, J., Silva, L. O. & Fonseca, R. A. (2019). Shaping injected electron-beams through magnetic fields in laser-wakefield acceleration. EPS 46th Conference on Plasma Physics.
36	Fonseca, R. A., Bingham R, Bamford RA, Trines, R. M. G., Kellett BJ, Cairns, R. A....Koepeke M (2019). Acceleration of electrons and maser radiation from collisionless shocks. 61th Annual Meeting of the APS Division of Plasma Physics.
37	Silva T, Hoshino M, Vieira, J., Fonseca, R. A. & Silva, L. O. (2018). Anisotropic heating and magnetic field generation due to Raman scattering in laser-plasma interaction. EPS 45th Conference on Plasma Physics.
38	Fonseca, R. A. (2018). OSIRIS EM-PIC performance tests on Intel KNL systems. EPS 45th Conference on Plasma Physics.
39	Helm, A, Vieira, Jorge, Fonseca, R. A., Silva, L. O. & Muggli, P. (2018). 3d parametric studies using reduced models for self-modulation instability. 60th Annual Meeting of the APS Division of Plasma Physics.
40	Calado R, Malaca B, Pardal M, Helm, A, Mori, W. B., Decyk, V. K....Fonseca, R. A. (2018). The ZPIC educational code suite. EPS 45th Conference on Plasma Physics.
41	Inchingolo, G, Grismayer, T., Loureiro, N. F., Fonseca, R. A. & Silva, L. O. (2018). Fully kinetic large scale simulations of the collisionless Magnetorotational Instability. EPS 45th Conference on Plasma Physics.
42	Del Gaudio F, Grismayer, T., Fonseca, R. A., Mori, W. B. & Silva, L. O. (2018). Wakefield excitation via Compton scattering. 60th Annual Meeting of the APS Division of Plasma Physics.
43	Silva, T., Vieira, J., Hoshino, M., Fonseca, R. A. & Silva, L. O. (2018). Anisotropic heating and magnetic field generation due to Raman scattering in laser-plasma interaction. 60th Annual Meeting of the APS Division of Plasma Physics.
44	Del Gaudio F, Grismayer, T., Fonseca, R. A., Mori, W. B. & Silva, L. O. (2018). High current colliding beams as a potential source of energetic radiation and relativistic pairs. EPS 45th Conference on Plasma Physics.
45	Calado R, Fonseca, R. A., Malaca B, Pardal M, Helm, A, Decyk, V. K....Silva, L. O. (2018). New developments of the ZPIC educational code suite. 60th Annual Meeting of the APS Division of Plasma Physics.
46	Fonseca, R. A. (2018). Exploring astrophysical condition with ab initio kinetic PIC simulation. EPS 45th Conference on Plasma Physics.
47	Schoeffler, K. M., Shulka N, Vieira, J., Mardon C, Feldstein B, Fonseca, R. A....Silva, L. O. (2018). e- e+ plasma-dark electromagnetism similarity establishes a (nearly) weaker-than-gravity bound on long-range dark matter self-interactions. 60th Annual Meeting of the APS Division of Plasma Physics.
48	Torres R, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2018). Laser-induced vacuum birefringence beyond idealized setups. EPS 45th Conference on Plasma Physics.
49	Schoeffler, K. M., Grismayer, T., Uzdensky D, Fonseca, R. A. & Silva, L. O. (2018). Triggering QED processes by reconnection in near critical magnetic fields. 60th Annual Meeting of the APS Division of Plasma Physics.
50	Helm, A, Vieira, J., Fonseca, R. A., Silva, L. O. & Muggli, P. (2018). Parametric studies using reduced 3d modeling on plasma scale lengths. EPS 45th Conference on Plasma Physics.

51	Trines, R. M. G., Schmitz H, Vieira, J., Silva, L. O., Fonseca, R. A., Cairns, R. A....Bingham R (2018). Universal scaling laws for pulse propagation in plasma and non-linear media. 60th Annual Meeting of the APS Division of Plasma Physics.
52	Malaca B, Vieira, J. & Fonseca, R. A. (2018). Machine learning controlled laser wakefield acceleration simulations. EPS 45th Conference on Plasma Physics.
53	Grismayer, T., Del Gaudio F, Fonseca, R. A., Mori, W. B. & Silva, L. O. (2018). Production of relativistic pairs and hard photons in beam-beam collisions. 60th Annual Meeting of the APS Division of Plasma Physics.
54	Bingham R, Speirs DC, Ronald K, Rigby, A, Cruz F, Bamford RA...Gregori, G (2018). Maser radiation from electrons accelerated by magnetised collisionless shock waves. 60th Annual Meeting of the APS Division of Plasma Physics.
55	Schoeffler, K. M., Grismayer, T., Uzdensky D, Silva, L. O. & Fonseca, R. A. (2018). Triggering QED processes by reconnection in near critical magnetic fields. EPS 45th Conference on Plasma Physics.
56	Dalichaouch T, Xu, X., Davidson, A., Mori, W. B., Vieira, J. & Fonseca, R. A. (2018). Generating high quality relativistic electron beams using density downramp injection in plasma wakefields. 60th Annual Meeting of the APS Division of Plasma Physics.
57	Mori, W. B., An, W., Chase S., Dalichaouch T, Decyk, V. K., Fonseca, R. A....Zhao Y. (2018). The Particle-in-Cell and Kinetic Simulation Software Center. 60th Annual Meeting of the APS Division of Plasma Physics.
58	Grismayer, T., Del Gaudio F, Fonseca, R. A. & Silva, L. O. (2018). Pairs and gamma-rays produced in the collisions of high density particle beams. Probing strong-field QED in electron-photon interactions 2018.
59	Fonseca, R. A., Marko W. Mayr, Kasim M, Luke Ceurvorst, James D. Sadler, Alex Savin...Norreys, P. (2018). Wakefields in a Cluster Plasma. 60th Annual Meeting of the APS Division of Plasma Physics.
60	Zhang W, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2018). High-order harmonic generation in an electron-positron-ion plasma. 60th Annual Meeting of the APS Division of Plasma Physics.
61	Lee, R., Miller K, Fonseca, R. A., Winjum, BJ, Helm, A, Tsung, F. S....Mori, W. B. (2018). Recent OSIRIS development for improved high-energy- density plasma simulations. 60th Annual Meeting of the APS Division of Plasma Physics.
62	Grismayer, T., Schoeffler, K. M., Uzdensky D, Fonseca, R. A. & Silva, L. O. (2018). Relativistic reconnection in near critical magnetic fields. HEDLA 2018.
63	Fonseca, R. A., Dalichaouch T, Davidson, A., Cruz F, Del Gaudio F, Inchingolo, G...Silva, L. O. (2018). OSIRIS 4.0: A state of the art framework for kinetic plasma simulations. 60th Annual Meeting of the APS Division of Plasma Physics.
64	Inchingolo, G, Grismayer, T., Loureiro, N. F., Fonseca, R. A. & Silva, J. (2018). Fully kinetic simulations of 2D MRI-induced turbulence in an electron-ion plasma. 60th Annual Meeting of the APS Division of Plasma Physics.
65	Grismayer, T., Torres R, Fonseca, R. A. & Silva, L. O. (2018). Laser-induced vacuum birefringence beyond idealized setups. X-ray polarimetry workshop 2018.
66	Pardal M, Vieira, J., Fonseca, R. A. & Sainte-Marie A (2018). Spatiotemporal structure of hard x-rays in particle-in-cell codes. 60th Annual Meeting of the APS Division of Plasma Physics.

67	Cruz F, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2017). Charge conserving current deposition scheme for PIC simulations in modified spherical coordinates. 59th Annual Meeting of the APS Division of Plasma Physics.
68	Martins, J. L., Vieira, J. & Fonseca, R. A. (2017). Betatron radiation emission from laser-wakefields driven by pulses with OAM. 3rd European Advanced Accelerator Concepts Workshop.
69	Martins, J. L., Fonseca, R. A. & Vieira, J. (2017). Radiation emission in laser-wakefield driven by structured laser pulses with OAM. 44th European Physical Society Conference on Plasma Physics.
70	Sá L, Vieira, J., Fonseca, R. A., Silva, L. O. & Mori, W. B. (2017). Dynamics of multiple interacting ultra-intense lasers in a plasma. 59th Annual Meeting of the APS Division of Plasma Physics.
71	Silva, L. O., Grismayer, T., Cruz F, Fonseca, R. A., Del Gaudio F, Martins, J. L....Vranic, M. (2017). Exploring extreme plasma physics in the laboratory and in astrophysics. 59th Annual Meeting of the APS Division of Plasma Physics.
72	Silva T, Vieira, J., Helm, A, Fonseca, R. A. & Silva, L. O. (2017). Convergence of the ponderomotive guiding center approximation in the LWFA. 3rd European Advanced Accelerator Concepts Workshop.
73	Fonseca, R. A. (2017). Deployment of the OSIRIS EM-PIC code on the Intel Knights Landing architecture. 44th European Physical Society Conference on Plasma Physics.
74	Silva T, Vieira, J., Helm, A, Fonseca, R. A. & Silva, L. O. (2017). Convergence of the Ponderomotive Guiding Center approximation in the LWFA. 59th Annual Meeting of the APS Division of Plasma Physics.
75	Calado R, Pardal M, Ninhos P, Helm, A, Mori, W. B., Decyk, V. K....Fonseca, R. A. (2017). The ZPIC educational code suite. 59th Annual Meeting of the APS Division of Plasma Physics.
76	Cruz F, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2017). Towards first-principle simulations of pulsar QED cascades: charge conserving scheme for PIC simulations in modified spherical coordinate. Extremely High-Intensity Laser Physics - ExHILP 2017.
77	Grismayer, T., Schoeffler, K. M., Uzdensky D, Fonseca, R. A. & Silva, L. O. (2017). QED-PIC relativistic magnetic reconnection with radiation and pair production. 44th European Physical Society Conference on Plasma Physics.
78	Helm, A, Vieira, J., Silva, L. O. & Fonseca, R. A. (2017). Reduced 3d modeling on injection schemes for laser wakefield acceleration at plasma scale lengths. 59th Annual Meeting of the APS Division of Plasma Physics.
79	Torres R, Grismayer, T., Carneiro P, Fonseca, R. A. & Silva, L. O. (2017). Finite-size and multidimensional effects of laser-induced vacuum birefringence. Extremely High-Intensity Laser Physics - ExHILP 2017.
80	Trines, R. M. G., Vieira, J., Fonseca, R. A., Mendonça JT, Silva, L. O., Alves, E. P....Bingham R (2017). Plasma-based amplification of laser beams with higher-order polarization modes. 59th Annual Meeting of the APS Division of Plasma Physics.
81	Fonseca, R. A. (2017). Dynamic load balancing in OSIRIS. OSIRIS Users and Developers Workshop 2017.
82	Fonseca, R. A. (2017). Deployment of the OSIRIS EM-PIC code on the Intel Knights Landing architecture. 59th Annual Meeting of the APS Division of Plasma Physics.
83	Del Gaudio F, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2017). Compton scattering collision module for OSIRIS. Extremely High-Intensity Laser Physics - ExHILP 2017.

84	Bingham R, Boella E, Trines, R. M. G., Bamford RA, Cairns, R. A., Vranic, M....Gregori, G (2017). Shock accelerated particles in inertial fusion. 59th Annual Meeting of the APS Division of Plasma Physics.
85	Balzarini A & Fonseca, R. A. (2017). Beam fields initialization. OSIRIS Users and Developers Workshop 2017.
86	Del Gaudio F, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2017). Compton scattering collision module for OSIRIS. 59th Annual Meeting of the APS Division of Plasma Physics.
87	Vranic, M., Grismayer, T., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2017). Seeded QED cascades with two or four counter-propagating laser pulses. Extremely High-Intensity Laser Physics - ExHILP 2017.
88	Fonseca, R. A. & Tableman, A. (2017). New hardware support in OSIRIS 4.0. OSIRIS Users and Developers Workshop 2017.
89	Tableman, A., Tzoufras M, Fonseca, R. A. & Mori, W. B. (2017). Kinetic Simulations -- Oshun (Vlasov-Fokker-Planck) and PIC (Osiris) -- Physics and Open Source Software In The UCLA PICKSC Initiative. 59th Annual Meeting of the APS Division of Plasma Physics.
90	Shulka N, Schoeffler, K. M., Vieira, J., Fonseca, R. A. & Silva, L. O. (2017). Weibel magnetic fields competes with Biermann fields in laser-solid interactions. 44th European Physical Society Conference on Plasma Physics.
91	Fonseca, R. A. (2017). Introduction to OSIRIS 4.0. OSIRIS Users and Developers Workshop 2017.
92	Schoeffler, K. M., Grismayer, T., Fonseca, R. A., Silva, L. O. & Uzdensky D (2017). Relativistic reconnection in near critical Schwinger field. 59th Annual Meeting of the APS Division of Plasma Physics, Milwaukee.
93	Mehrling, T, Fonseca, R. A., Martinez de La Ossa, A, Osterhoff J & Vieira, J. (2017). Mitigation of the hose instability in plasma-wakefield accelerators. 44th European Physical Society Conference on Plasma Physics.
94	Grismayer, T., Vranic, M., Del Gaudio F, Fonseca, R. A. & Silva, L. O. (2017). Quantum regime in new collider configurations. 59th Annual Meeting of the APS Division of Plasma Physics.
95	Dalichaouch T, Xu, X., Davidson, A., Yu, P., An, W., Chandrashekar Joshi...Fonseca, R. A. (2017). Generating high brightness electron beams using density down ramp injection in nonlinear plasma wakefields. 59th Annual Meeting of the APS Division of Plasma Physics, Milwaukee.
96	Helm, A, Vieira, J., Silva, L. O. & Fonseca, R. A. (2017). Laser wakefield acceleration modeling based on ponderomotive guiding center solver using particle-in-cell code OSIRIS. 44th European Physical Society Conference on Plasma Physics.
97	Inchingolo, G, Grismayer, T., Loureiro, N. F., Fonseca, R. A. & Silva, L. O. (2017). 2D MRI-induced turbulence in high beta PIC simulation. 59th Annual Meeting of the APS Division of Plasma Physics.
98	Davidson, A., Tableman, A., Yu, P., An, W., Tsung, F. S., Mori, W. B....Fonseca, R. A. (2017). A detailed examination of the LWFA in the Self-Guided Nonlinear Blowout Regime for 15-100 Joule Lasers. 59th Annual Meeting of the APS Division of Plasma Physics.
99	Inchingolo, G, Grismayer, T., Loureiro, N. F., Fonseca, R. A. & Silva, L. O. (2017). Large scale PIC simulations of high beta Magneto-Rotational Instability. 44th European Physical Society Conference on Plasma Physics.
100	Miller K, Elias P, Fonseca, R. A., Winjum, BJ, Tsung, F. S., Decyk, V. K....Mori, W. B. (2017). Algorithm implementation and testing to ensure consistency of Gauss's law in OSIRIS. 59th Annual Meeting of the APS Division of Plasma Physics.

101	Mori, W. B., Decyk, V. K., Tableman, A., Fonseca, R. A., Tsung, F. S., Hu Q...Xu, X. (2017). The Particle-in-Cell and Kinetic Simulation Software Center. 59th Annual Meeting of the APS Division of Plasma Physics.
102	Amorim, L. D., Vieira, J., Fonseca, R. A. & Silva, L. O. (2017). Role of positron beam emittance for self-driven plasma wakefield hollow channel acceleration. 44th European Physical Society Conference on Plasma Physics.
103	Shulka N, Vieira, J., Muggli, P., Fonseca, R. A. & Sarri G (2017). Exploring the onset of fireball filamentation in realistic laboratory conditions. 59th Annual Meeting of the APS Division of Plasma Physics.
104	Helm, A, Vieira, J., Fonseca, R. A. & Silva, L. O. (2016). Implementation of a 3D version of ponderomotive guiding center solver in particle-in-cell code OSIRIS. 58th Annual Meeting of the APS Division of Plasma Physics.
105	Vieira, J., Trines, R. M. G., Alves EP, Fonseca, R. A., Mendonça JT, Bingham R...Silva, L. O. (2016). High orbital angular momentum harmonic generation in plasmas. 43rd EPS Conference on Plasma Physics.
106	Bret, A., Stockem, A., Fonseca, R. A. & Silva, L. O. (2016). Shock Formation in Electron-Ion Plasmas: Mechanism and Timing. 58th Annual Meeting of the APS Division of Plasma Physics.
107	Grismayer, T., Vranic, M., Fonseca, R. A. & Silva, L. O. (2016). QED-PIC simulations of electromagnetic cascades at the surface of pulsar's polar cap. 58th Annual Meeting of the APS Division of Plasma Physics.
108	Vranic, M., Grismayer, T., Fonseca, R. A. & Silva, L. O. (2016). Perspective on QED physics on multi-PW laser facilities. 43rd EPS Conference on Plasma Physics.
109	Vranic, M., Grismayer, T., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2016). All-optical radiation reaction in head-on laser electron interaction. 58th Annual Meeting of the APS Division of Plasma Physics.
110	Shukla N, Schoeffler, K. M., Vieira, J., Fonseca, R. A. & Silva, L. O. (2016). Weibel magnetic field competes with Biermann fields in laser-solid interactions. 58th Annual Meeting of the APS Division of Plasma Physics.
111	Del Gaudio F, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2016). Breit-Wheeler pairs production and γ ray emission in $e^+ e^-$ beams collision. 43rd EPS Conference on Plasma Physics.
112	Inchingolo, G, Grismayer, T., Loureiro, N. F., Fonseca, R. A. & Silva, L. O. (2016). PIC simulations of the MagnetoRotational instability in electron-positron plasmas. 58th Annual Meeting of the APS Division of Plasma Physics.
113	Cruz F, Fonseca, R. A., Silva, L. O., Rigby, A, Gregori, G, Bamford RA...Koenig, M (2016). Probing particle acceleration in lower hybrid turbulence via synthetic diagnostics produced by PIC simulations. 58th Annual Meeting of the APS Division of Plasma Physics.
114	Cruz F, Rigby, A, Bamford RA, Bingham R, Koenig, M, Gregori, G...Silva, L. O. (2016). Particle acceleration via lower hybrid turbulence: PIC simulations under laboratory conditions. 43rd EPS Conference on Plasma Physics.
115	Martins, J. L., Hehmann, G, Fonseca, R. A., Silva, L. O. & Vieira, J. (2016). Exploring the orbital angular momentum of betatron radiation. 58th Annual Meeting of the APS Division of Plasma Physics.
116	Vieira, J., Trines, R. M. G., Alves EP, Mendonça JT, Fonseca, R. A., Norreys, P....Silva, L. O. (2016). Ultra-intense high orbital angular momentum harmonic generation in plasmas. 58th Annual Meeting of the APS Division of Plasma Physics.

117	Carneiro P, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2016). QED multi-dimensional vacuum polarization Solver. 43rd EPS Conference on Plasma Physics.
118	Carneiro P, Grismayer, T., Silva, L. O. & Fonseca, R. A. (2016). Simulations of light-light scattering in quantum vacuum. 58th Annual Meeting of the APS Division of Plasma Physics.
119	Mori, W. B., Decyk, V. K., Tableman, A., Fonseca, R. A., Tsung, F. S., Hu, Q...Yu, P. (2016). Building an infrastructure at PICKSC for the educational use of kinetic software tools. 58th Annual Meeting of the APS Division of Plasma Physics.
120	Boella E, Schoeffler, K. M., Fonseca, R. A. & Silva, L. O. (2016). Shock wave collisions in laser-produced plasmas. 43rd EPS Conference on Plasma Physics.
121	Dalichaouch T, Davidson, A., Xu, X., Yu, P., Tsung, F. S., Mori, W. B...Fonseca, R. A. (2016). Using Quasi-3D OSIRIS simulations of LWFA to study generating high brightness electron beams using ionization and density downramp injection. 58th Annual Meeting of the APS Division of Plasma Physics.
122	Helm, A, Vieira, J., Fonseca, R. A. & Silva, L. O. (2016). Implementation of ponderomotive guiding center in three-dimensions in particle-in-cell code. 43rd EPS Conference on Plasma Physics.
123	Fonseca, R. A., Tableman, A., Vieira, J., Decyk, V. K., Mori, W. B. & Silva, L. O. (2016). OSIRIS 4.0: new version of the OSIRIS framework. 58th Annual Meeting of the APS Division of Plasma Physics.
124	Bracco C, Amorim, L. D., Assmann, R., Batsch F, Bingham R, Burt G...Xia, G. (2016). AWAKE: A Proton-Driven Plasma Wakefield Acceleration Experiment at CERN. 37th International Conference on High Energy Physics (ICHEP).
125	Martins, J. L., Hehmann, G, Vieira, J., Fonseca, R. A. & Silva, L. O. (2016). Betatron radiation produced in wakefield accelerators driven by lasers with orbital angular momentum. 17th Advanced Accelerator Concepts Workshop.
126	Tableman, A., Tzoufras M, Fonseca, R. A. & Mori, W. B. (2016). Kinetic Simulations - Oshun (Vlasov-Fokker-Planck) and PIC (Osiris) - Physics and Open Source Software In The UCLA PICKSC Initiative. 58th Annual Meeting of the APS Division of Plasma Physics.
127	Fonseca, R. A. (2016). Challenges in computer simulations to the exascale. 17th Advanced Accelerator Concepts Workshop.
128	Sinha U, Martins, J. L., Vieira, J., Schoeffler, K. M., Fonseca, R. A. & Silva, L. O. (2016). Circularly Polarized Light from Magnetized Current Filaments. 43rd EPS Conference on Plasma Physics.
129	Mehrling, T, Martinez de La Ossa, A, Fonseca, R. A. & Vieira, J. (2016). Mitigation of the hose instability in plasma-wakefield accelerators. 17th Advanced Accelerator Concepts Workshop.
130	Del Gaudio F, Grismayer, T., Fonseca, R. A., Mori, W. B. & Silva, L. O. (2016). Pair production and γ ray emission in collisions of e^+e^- beams. 58th Annual Meeting of the APS Division of Plasma Physics.
131	Martins, J. L., Hehmann, G, Vieira, J., Fonseca, R. A. & Silva, L. O. (2016). Betatron radiation from wakefield driven by laser pulses with OAM. 43rd EPS Conference on Plasma Physics.
132	Davidson, A., Xu, X., Yu, P., Mori, W. B., Li F, Lu, W....Vieira, J. (2016). Comparison of Quasi-3D and Full-3D OSIRIS simulations of ionization and density downramp injection. 17th Advanced Accelerator Concepts Workshop.

133	Yu, P., Li F, Dalichaouch T, Fiuza, F., Decyk, V. K., Davidson, A....Mori, W. B. (2016). Customized finite difference Maxwell solver for elimination of numerical Cherenkov instability in EM-PIC code. 58th Annual Meeting of the APS Division of Plasma Physics.
134	Fonseca, R. A., Vieira, J., Tableman, A., Decyk, V. K., Mori, W. B. & Silva, L. O. (2016). OSIRIS 4.0: new version of the OSIRIS framework. 43rd EPS Conference on Plasma Physics.
135	Li F, Yu, P., Fonseca, R. A., Lu, W., Mori, W. B., Xu, X....Tsong, F. S. (2016). Controlling the Numerical Cerenkov Instability in PIC simulations using a customized finite difference Maxwell solver and a local FFT based current correction. 17th Advanced Accelerator Concepts Workshop.
136	Vranic, M., Grismayer, T., Fonseca, R. A. & Silva, L. O. (2015). Multi-laser QED cascades in 2D and 3D geometry. 57th Annual Meeting of the APS Division of Plasma Physics.
137	Del Gaudio F, Fonseca, R. A., Grismayer, T. & Silva, L. O. (2015). Numerical simulations of disruption effects from the interaction of electron-positron beams. 42nd EPS Conference on Plasma Physics.
138	Alves, E. P., Grismayer, T., Silveirinha, M. G., Fonseca, R. A. & Silva, L. O. (2015). Slow down of a globally neutral relativistic e-e+ beam shearing the vacuum. 57th Annual Meeting of the APS Division of Plasma Physics.
139	Lopes A, Alves, E. P., Fonseca, R. A. & Silva, L. O. (2015). Radiation tension in plasma metamaterials. 42nd EPS Conference on Plasma Physics.
140	Amorim, L. D., Vieira, J., Fonseca, R. A. & Silva, L. O. (2015). Wakefield structure of plasma hollow channels self-driven by tightly focused beams. 57th Annual Meeting of the APS Division of Plasma Physics.
141	Vranic, M., Fonseca, R. A., Norreys, P. & Silva, L. O. (2015). Intense laser propagation through underdense plasma channels with radiation reaction. 42nd EPS Conference on Plasma Physics.
142	Cruz F, Alves, E. P., Fonseca, R. A., Silva, L. O., Bamford RA & Bingham R (2015). Conditions for collisionless shocks formation in magnetized plasma interaction with kinetic-scale obstacles. 57th Annual Meeting of the APS Division of Plasma Physics.
143	Carneiro P, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2015). QED multi-dimensional vacuum polarization Solver. 42nd EPS Conference on Plasma Physics.
144	Dalichaouch T, Yu, P., Davidson, A., Mori, W. B., Vieira, J. & Fonseca, R. A. (2015). Comparison of quasi-3D and full-3D laser wakefield PIC simulations using azimuthal mode decomposition. 57th Annual Meeting of the APS Division of Plasma Physics.
145	Pathak, V. B., Vieira, J., Kim HT, Nakajima K, Fonseca, R. A., Silva, L. O....Nam CH (2015). Effect of chirp on laser propagation and controlled self-injection in laser wakefield acceleration. 42nd EPS Conference on Plasma Physics.
146	Trines, R. M. G., Alves, E. P., Fonseca, R. A., Silva, L. O., Webb E, Fiuza, F....Norreys, P. (2015). Exploiting the self-similar nature of Raman and Brillouin amplification. 57th Annual Meeting of the APS Division of Plasma Physics.
147	Grismayer, T., Vranic, M., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2015). PIC-QED simulations of absorption of ultra-intense intense laser pulse in self-generated pair plasma. 42nd EPS Conference on Plasma Physics.

148	Yu, P., Xu, X., Davidson, A., Tableman, A., Meyers M, Dalichaouch T...Mori, W. B. (2015). Lorentz boosted frame simulation of Laser wakefield acceleration in quasi-3D geometry. 57th Annual Meeting of the APS Division of Plasma Physics.
149	Fonseca, R. A. (2015). Electromagnetic particle-in-cell (EM-PIC) codes for exascale architectures. 42nd EPS Conference on Plasma Physics.
150	Boella E, Stockem, A., Fiuza, F., Fonseca, R. A. & Silva, L. O. (2015). Ion shock wave acceleration in realistic laser-target scenarios. 42nd EPS Conference on Plasma Physics.
151	Fonseca, R. A. (2015). Performance evaluation of OSIRIS EM-PIC on a Xeon Phi cluster. 57th Annual Meeting of the APS Division of Plasma Physics.
152	Vieira, J., Trines, R. M. G., Alves, E. P., Fonseca, R. A., Mendonça JT, Bingham R...Silva, L. O. (2015). Generation and amplification of Petawatt-class exotic light with orbital angular momentum in plasmas. 42nd EPS Conference on Plasma Physics.
153	Alves, E. P., Grismayer, T., Fonseca, R. A. & Silva, L. O. (2015). Microphysics of unmagnetized collisionless shear flows. 42nd EPS Conference on Plasma Physics.
154	Vieira, J., Trines, R. M. G., Alves, E. P., Fonseca, R. A., Mendonça JT, Norreys, P...Silva, L. O. (2015). Exotic and intense lasers with orbital angular momentum for laser plasma interactions. 57th Annual Meeting of the APS Division of Plasma Physics.
155	Amorim, L. D., Vieira, J., Fonseca, R. A. & Silva, L. O. (2015). Nonlinear wakefield structure of a hollow channel driven by a tightly focused positron bunch. 42nd EPS Conference on Plasma Physics.
156	Grismayer, T., Vranic, M., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2015). Seeded QED cascades in ultra-intense counter-propagating lasers: theory and multidimensional QED-PIC simulations. SPIE Optics & Optoelectronics International Symposium.
157	Sinha U, Martins, J. L., Vieira, J., Fonseca, R. A. & Silva, L. O. (2015). Magnetized Weibel filaments as a source of circularly polarized light. 57th Annual Meeting of the APS Division of Plasma Physics.
158	Martins, J. L., Vranic, M., Grismayer, T., Vieira, J., Fonseca, R. A. & Silva, L. O. (2015). Modeling radiation emission in the transition from the classical to the quantum regime. 42nd EPS Conference on Plasma Physics.
159	Vranic, M., Grismayer, T., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2015). Compton scattering: exploring the weakly quantum regime with 1-10 PW lasers. SPIE Optics & Optoelectronics International Symposium.
160	Carneiro P, Grismayer, T., Fonseca, R. A. & Silva, L. O. (2015). QED multi-dimensional vacuum polarization finite-difference solver. 57th Annual Meeting of the APS Division of Plasma Physics.
161	Martins, J. L., Vranic, M., Grismayer, T., Fonseca, R. A. & Silva, L. O. (2015). Radiation emission in the transition to the radiation cooling regime. SPIE Optics & Optoelectronics International Symposium.
162	Martins, J. L., Vranic, M., Grismayer, T., Fonseca, R. A. & Silva, L. O. (2015). Laser pulse scattering in the transition from the classical to the quantum regime. 57th Annual Meeting of the APS Division of Plasma Physics.
163	Stockem, A., Bret, A., Fonseca, R. A. & Silva, L. O. (2015). Physics of collisionless shocks - theory and simulation. 42nd EPS Conference on Plasma Physics.

164	Grismayer, T., Vranic, M., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2015). QED-PIC simulations: from the breakdown of classical physics to the Schwinger limit. ExHILP - Extreme High-Intensity Laser Physics.
165	May, J., Tonge, J. W., Fiuza, F., Fonseca, R. A., Silva, L. O. & Mori, W. B. (2015). Laser Absorption by Over-Critical Plasmas. 57th Annual Meeting of the APS Division of Plasma Physics.
166	Sinha U, Martins, J. L., Vieira, J., Fonseca, R. A. & Silva, L. O. (2015). Radiation spectra from particle in cell (PIC) simulations of counter-propagating magnetized plasmas. 42nd EPS Conference on Plasma Physics.
167	Grismayer, T., Vranic, M., Martins, J. L., Fonseca, R. A. & Silva, L. O. (2015). Seeded QED cascades in ultra-intense counter-propagating lasers: theory and multidimensional QED-PIC simulations. The 9th International West Lake symposium.
168	Lopes A, Alves, E. P., Fonseca, R. A. & Silva, L. O. (2015). Beatwave acceleration in a plasma metamaterial. 57th Annual Meeting of the APS Division of Plasma Physics.
169	Trines, R. M. G., Vieira, J., Alves, E. P., Fonseca, R. A., Mendonça JT & Silva, L. O. (2015). A plasma compressor for ultrahigh HED physics driven by laser pulses with orbital angular momentum. 42nd EPS Conference on Plasma Physics.
170	Vranic M, Grismayer T, Martins JL, Fonseca, R. A. & Silva, L. O. (2014). Particle-in-cell merging algorithm for classical and QED laser-plasma interaction. 16th Advanced Accelerator Concepts workshop.
171	Shukla N, Vieira, J., Muggli, P., Fonseca, R. A. & Silva, L. O. (2014). Condition for the onset of the current filamentation instability of ultra-relativistic fireball bunches in plasmas. 56th Annual Meeting of the APS Division of Plasma Physics.
172	Fonseca, R. A. (2014). Particle-In-cell methods in application to modeling astrophysical and HED plasmas. 10th International Conference on High Energy Density Laboratory Astrophysics.
173	Vranic M, Martins JL, Vieira, J., Grismayer T, Fonseca, R. A. & Silva, L. O. (2014). Compton scattering: from 1 to 10 PW. ELI HELL-DUR Workshop.
174	Martins JL, Vranic M, Vieira, J., Grismayer T, Fonseca, R. A. & Silva, L. O. (2014). Ultra-high intensity laser scattering with quantum corrections. 56th Annual Meeting of the APS Division of Plasma Physics.
175	Fonseca, R. A. (2014). Performance evaluation of Xeon Phi accelerators for electromagnetic particle-in-cell (EM-PIC) codes. 41st EPS Conference on Plasma Physics.
176	May, J., Tonge, J. W., Mori, W. B., Fiuza, F., Fonseca, R. A. & Silva, L. O. (2014). Laser Absorption and Particle Acceleration at the Critical Surface. 56th Annual Meeting of the APS Division of Plasma Physics.
177	Vranic M, Grismayer T, Martins JL, Vieira, J., Fonseca, R. A. & Silva, L. O. (2014). Radiation reaction - from classical to QED regime. 41st EPS Conference on Plasma Physics.
178	Mendonça JT, Vieira, J., Fonseca, R. A. & Silva, L. O. (2014). Positron acceleration in doughnut wakefields in the blowout regime. 56th Annual Meeting of the APS Division of Plasma Physics.
179	Stockem A, Grismayer T, Fiuza, F., Bret A, Fonseca, R. A. & Silva, L. O. (2014). Collisionless shocks driven by intense lasers: ion beams and the transition to electromagnetic shocks. 41st EPS Conference on Plasma Physics.

180	Schoeffler, K. M., Loureiro, N. F., Silva, L. O. & Fonseca, R. A. (2014). Weibel magnetic field amplification and saturation in expanding plasmas. 56th Annual Meeting of the APS Division of Plasma Physics.
181	Grismayer T, Vranic M, Martins JL, Marklund, M., Fonseca, R. A. & Silva, L. O. (2014). PIC modelling of pair production with intense lasers pulses. 41st EPS Conference on Plasma Physics.
182	Grismayer T, Vranic M, Fonseca, R. A. & Silva, L. O. (2014). Absorption of ultra-intense intense laser pulse in self-generated pair plasma. 56th Annual Meeting of the APS Division of Plasma Physics.
183	Pathak VB, Martins JL, Vieira, J., Fonseca, R. A. & Silva, L. O. (2014). Self-injection and electron bunch trajectories in corrugated plasma channel assisted laser wakefield acceleration. 41st EPS Conference on Plasma Physics.
184	Sinha U, Martins JL, Vieira, J., Fonseca, R. A. & Silva, L. O. (2014). Polarization studies of radiation spectra of relativistic collisionless shocks. 56th Annual Meeting of the APS Division of Plasma Physics.
185	RMGM Trines, Alves EP, Humphrey KA, Fiuza, F., Speirs DC, Bingham R...Norreys P (2014). Production of petawatt laser pulses of picosecond duration via Brillouin amplification of nanosecond laser beams. 41st EPS Conference on Plasma Physics.
186	Vranic M, Grismayer T, Martins JL, Fonseca, R. A. & Silva, L. O. (2014). Macroparticle merging algorithm for PIC. 56th Annual Meeting of the APS Division of Plasma Physics.
187	Pathak, V. B., Grismayer T, Stockem A, Fonseca, R. A. & Silva, L. O. (2014). Spatial-temporal growth of filamentation instability. 41st EPS Conference on Plasma Physics.
188	RMGM Trines, Bingham R, Norreys P, Alves, E.P., Fonseca, R. A., Silva, L. O....Cairns RA (2014). Boosting the performance of Brillouin amplification via reduction of parasitic Raman scattering and filamentation. 56th Annual Meeting of the APS Division of Plasma Physics.
189	Amorim, L. D., Vieira, J., Fonseca, R. A. & Silva, L. O. (2014). Positron self-driven hollow channel in non-linear plasma wakefields. 56th Annual Meeting of the APS Division of Plasma Physics.
190	Alves, E.P., Fonseca, R. A. & Silva, L. O. (2014). Unusual stimulated Raman scattering in a plasma metamaterial. 56th Annual Meeting of the APS Division of Plasma Physics.
191	Vranic M, Grismayer T, Martins JL, Fonseca, R. A. & Silva, L. O. (2014). QED vs. classical radiation reaction in transition regime. 16th Advanced Accelerator Concepts workshop.
192	Yu, P., Xu, X., Decyk, V. K., Tsung FS, Vieira, J., Fonseca, R. A....Mori, W. B. (2014). Modeling of Laser wakefield acceleration in the Lorentz boosted frame using UPIC-EMMA and OSIRIS. 56th Annual Meeting of the APS Division of Plasma Physics.
193	Fonseca, R. A. (2014). Deploying electromagnetic particle-in-cell (EM-PIC) codes on Xeon Phi accelerators boards. 56th Annual Meeting of the APS Division of Plasma Physics.
194	Fonseca, R. A. (2013). Simulations of Plasma Based Accelerators. European Advanced Accelerator Concepts 2013.
195	Vieira J, Pathak, VB, Martins JL, Fonseca, R. A., Mori WB & Silva, LO (2013). Controlled magnetic self-injection and electron acceleration towards the energy frontier. SPIE Optics + Optoelectronics 2013.

196	Pathak, VB, Viera, J., Fonseca, R. A. & Silva, LO (2013). Control over electron acceleration due to transverse plasma inhomogeneities and frequency chirp in laser wakefield acceleration. Laser and Plasma Accelerators Workshop 2013.
197	Fonseca, R. A. (2013). Petascale simulations of laser-wakefield accelerators. 40th European Physical Society Conference on Plasma Physics.
198	Trines RMGM, Humphrey KA, Fiuza F, Speirs DC, Fonseca, R. A., Bingham R...Norreys P (2013). Production of petawatt laser pulses of picosecond duration via Brillouin amplification of nanosecond laser beams. 40th European Physical Society Conference on Plasma Physics.
199	Stockem A, Grismayer T, Fiuza F, Boella E, Fonseca, R. A. & Silva, LO (2013). Exploring the transition from electromagnetic shocks to electrostatic shocks. 4th International Conference on High Energy Density Physics (ICHED 2013).
200	Yu P, Xu, X, Decyk VK, An W, Viera, J., Tsung FS...Mori WB (2013). Modeling of Laser wakefield accelerator in Lorentz boosted frame using EM-PIC code with spectral solver. 55th Annual Meeting of the APS Division of Plasma Physics.
201	Grismayer T, Fonseca, R. A., Martins JL, Harvey, C., Ilderton, A., Marklund, M...Silva, LO (2013). On the path to pair production: self-consistent multidimensional PIC modeling. 40th European Physical Society Conference on Plasma Physics.
202	Schoeffler K, Loureiro N, Silva, LO & Fonseca, R. A. (2013). Magnetic field production in an expanding plasma: Biermann or Weibel?. 55th Annual Meeting of the APS Division of Plasma Physics.
203	Vieira J, Muggli P, Fonseca, R. A., Mori WB & Silva, LO (2013). Hosing instability suppression in self-modulated plasma acceleration. 40th European Physical Society Conference on Plasma Physics.
204	Grismayer T, Fonseca, R. A., Marklund, M. & Silva, LO (2013). Self-consistent PIC modeling of pair production with intense lasers pulses. 55th Annual Meeting of the APS Division of Plasma Physics.
205	Stockem A, Grismayer T, Fiuza F, Boella E, Fonseca, R. A. & Silva, LO (2013). Transition from electrostatic to electromagnetic collisionless shocks in laser-heated plasmas. 40th European Physical Society Conference on Plasma Physics.
206	Martins JL, Vranic M, Viera, J., Grismayer T, Fonseca, R. A. & Silva, LO (2013). Modeling Nonlinear Thomson/Compton scattering of LWFA GeV electron bunches. 55th Annual Meeting of the APS Division of Plasma Physics.
207	Boella E, Fiuza F, Stockem A, Fonseca, R. A. & Silva, LO (2013). Optimization study of Shock Wave acceleration. 40th European Physical Society Conference on Plasma Physics.
208	Vranic M, Viera, J., Nakamura H, Fonseca, R. A., Norreys P & Silva, LO (2013). Simulations of ps-laser channeling and fast electron generation in realistic density gradients. 55th Annual Meeting of the APS Division of Plasma Physics.
209	Alves EP, Grismayer T, Fonseca, R. A. & Silva, LO (2013). Multidimensional electron-scale instabilities in unmagnetized shear flows. 40th European Physical Society Conference on Plasma Physics.
210	Alves EP, Grismayer T, Fonseca, R. A. & Silva, LO (2013). Strong electron-scale instability in relativistic shear flows. 55th Annual Meeting of the APS Division of Plasma Physics.

211	Vranic M, Martins JL, Vieira J, Fonseca, R. A. & Silva, LO (2013). Full-scale 3D PIC simulations in the radiation reaction dominated regime with ELI lasers. SPIE Optics + Optoelectronics 2013.
212	Grismayer T, Alves EP, Fonseca, R. A. & Silva, LO (2013). Large magnetic field generation in unmagnetized shear flows. 40th European Physical Society Conference on Plasma Physics.
213	Stockem A, Grismayer T, Fiuza F, Boella E, Fonseca, R. A. & Silva, LO (2013). Magnetic fields due to Weibel modes in the downstream of electrostatic shocks. 55th Annual Meeting of the APS Division of Plasma Physics.
214	Grismayer T, Martins JL, Fonseca, R. A. & Silva, LO (2013). On the path to pair production: self-consistent multidimensional PIC modeling. SPIE Optics + Optoelectronics 2013.
215	Martins JL, Vranic M, Vieira J, Grismayer T, Fonseca, R. A. & Silva, LO (2013). Nonlinear Compton scattering of ultra-intense laser pulses from GeV electrons. 40th European Physical Society Conference on Plasma Physics.
216	Amorim L, Viera, J., Muggli P, Fonseca, R. A., Mori WB & Silva, LO (2013). Ultra-relativistic electron and positron bunches in plasmas in the linear and blow-out/suck-in regime. 55th Annual Meeting of the APS Division of Plasma Physics.
217	Martins JL, Vranic M, Vieira J, Fonseca, R. A. & Silva, LO (2013). Nonlinear Thompson/Compton scattering from GeV laser-wakefield accelerated electron bunches. SPIE Optics + Optoelectronics 2013.
218	Pathak, VB, Martins JL, Vieira, J., Fonseca, R. A. & Silva, LO (2013). Transverse plasma inhomogeneities for laser guiding and its relevance for radiation generation. 40th European Physical Society Conference on Plasma Physics.
219	Fonseca, R. A. (2013). Petascale simulations of laser plasma accelerators at ELI regimes. Research Using Extreme Light: Entering New Frontiers with Petawatt-Class Lasers, SPIE Optics + Optoelectronics 2013.
220	Stockem A, Fiuza F, Boella E, Fonseca, R. A., Silva, LO, Joshi C...Mori WB (2013). Theoretical studies of collisionless shocks for laser-acceleration of ions. SPIE Optics + Optoelectronics 2013.
221	Vranic M, Martins JL, Fonseca, R. A. & Silva, LO (2013). Full Scale 3D PIC simulations in radiation reaction dominated regime. 40th European Physical Society Conference on Plasma Physics.
222	Haberberger, D., Tochitsky S, Gong C, Mori WB, Joshi C, Fiuza F...Silva LO (2012). Shock Wave Acceleration of Ions on Omega EP. 54th Annual Meeting of the APS Division of Plasma Physics.
223	Martins JL, Alves, E.P., Grismayer T, Fonseca, R. A. & Silva LO (2012). Radiation from Weibel and Kelvin-Helmholtz instabilities at long time scales. 39th EPS Plasma Physics Conference.
224	Alves, E.P., Grismayer T, Fonseca, R. A. & Silva LO (2012). Large-scale magnetic field generation via the Kelvin-Helmholtz instability in unmagnetized scenarios. 54th Annual Meeting of the APS Division of Plasma Physics.
225	Viera, J., Fonseca, R. A., Mori WB, Muggli P & Silva LO (2012). Self-modulation of long lepton and hadron bunches. Proton Driven Wakefield Acceleration Workshop.
226	Raoul RMGM, Fiuza F, Bingham R, Norreys P, Fonseca, R. A., Silva LO...Cairns RA (2012). Thermal effects in Raman amplification of laser pulses in plasma. 54th Annual Meeting of the APS Division of Plasma Physics.
227	Fonseca, R. A., Abreu P, Fiuza F, Martins JL, Vieira J, Silva LO...Mori WB (2012). Efficient full scale electromagnetic particle-in-cell (EM-PIC) modeling on high end HPC systems. 39th EPS Plasma Physics Conference.

228	Stockem A, Fiuza F, Boella E, Fonseca, R. A. & Silva LO (2012). On the transition from electromagnetic to electrostatic shocks. 54th Annual Meeting of the APS Division of Plasma Physics.
229	May J, Tonge JW, Mori WB, Beg, F., McGuffey, C, Wei, M...Fonseca, R. A. (2012). PIC Modeling of Relativistic Electron Transport Experiments on Omega EP. 54th Annual Meeting of the APS Division of Plasma Physics.
230	Pathak, VB, Vieira J, Fonseca, R. A. & Silva LO (2012). Transverse drift in the laser due to transverse frequency chirp: Variational principle approach. 39th EPS Plasma Physics Conference.
231	Boella E, Fiuza F, Stockem A, Fonseca, R. A. & Silva LO (2012). Parametric study of ion acceleration in electrostatic shock waves. 54th Annual Meeting of the APS Division of Plasma Physics.
232	Fonseca, R. A. (2012). Predictive full-scale fast ignition with PW plasma amplified laser pulses. PRACE Scientific Conference 2012.
233	Vranic M, Martins JL, Vieira J, Fonseca, R. A. & Silva LO (2012). Possibility of exploring radiation reaction dominated Regime with Astra-Gemini. Christmas meeting of the High Power Laser Science Community.
234	Stockem A, Fiuza F, Boella E, Fonseca, R. A. & Silva LO (2012). Relativistic electrostatic shocks driven by lasers and the conditions for transition to electromagnetic, Weibel-dominated shocks. 39th EPS Plasma Physics Conference.
235	Pathak, VB, Vieira J, Fonseca, R. A. & Silva LO (2012). Laser guiding due to transverse frequency chirp and plasma inhomogeneity: Relevance to laser wakefield acceleration. 54th Annual Meeting of the APS Division of Plasma Physics.
236	Vieira J, Fang, Y., Fonseca, R. A., Mori WB, Muggli P & Silva LO (2012). Self-modulated wakefield acceleration with hadron and lepton bunches. International Topical Conference on Plasma Science - ITCPP 2013.
237	Alves, E.P., Grismayer T, Fonseca, R. A. & Silva LO (2012). Kelvin-Helmholtz instability in unmagnetized scenarios: ab initio numerical simulations and theory. 39th EPS Plasma Physics Conference.
238	Vieira J, Fonseca, R. A., Mori WB, Muggli P & Silva LO (2012). Hosing and self-modulation competition in self-modulated plasma acceleration. 54th Annual Meeting of the APS Division of Plasma Physics.
239	Vieira J, Fonseca, R. A., Martins SF, Martins JL, Mori WB & Silva LO (2012). Electron acceleration and radiation generation from 1 to 100 GeV. IZEST Workshop.
240	Yu P, Tsung FS, Xu, X, Lu W, Decyk VK, Mori WB...Silva LO (2012). Modeling of laser wakefield acceleration in the Lorentz boosted frame using OSIRIS. AAC - Advanced Accelerator Concepts Workshop 2012.
241	Boella E, Fiuza F, Stockem A, Fonseca, R. A. & Silva LO (2012). Reduced electrostatic simulations of shock formation and ion acceleration. 39th EPS Plasma Physics Conference.
242	Yu P, Xu, X, Decyk VK, Lu W, Tsung FS, Mori WB...Silva LO (2012). Modeling laser wakefield acceleration in a Lorentz boosted frame using OSIRIS and UPIC. 54th Annual Meeting of the APS Division of Plasma Physics.
243	Fiuza F, Fonseca, R. A., Silva LO & Mori WB (2012). Fully kinetic modeling of laser absorption and electron transport for fast ignition conditions. 12th International Workshop on Fast Ignition of Fusion Targets.
244	Grismayer T, Alves, E.P., Fonseca, R. A. & Silva LO (2012). Large-scale magnetic field generation via the Kelvin-Helmholtz instability in initially unmagnetized scenarios. 39th EPS Plasma Physics Conference.

245	Hogan, M., Vieira J, Lopes NC, Fonseca, R. A., Reimann, O., Litos, M....Muggli P (2012). Long lepton bunch self-modulation experiment at SLAC. 54th Annual Meeting of the APS Division of Plasma Physics.
246	Fiuza F, Stockem A, Boella E, Fonseca, R. A., Silva LO, Haberberger, D....Joshi C (2012). 200 MeV monoenergetic protons produced by a laser-driven collisionless shock. AAC - Advanced Accelerator Concepts Workshop 2012.
247	Raoul RMGM, Fiuza F, Bingham R, Fonseca, R. A., Silva LO, Cairns RA...Norreys P (2012). Raman Amplification of Laser Pulses to Multi-Petawatt Powers in Plasma. 39th EPS Plasma Physics Conference.
248	Fonseca, R. A., Decyk VK, Mori WB & Silva LO (2012). Generalized SIMD algorithm for efficient EM-PIC simulations on modern CPUs. 54th Annual Meeting of the APS Division of Plasma Physics.
249	Fonseca, R. A., Davidson AW, Tsung FS, Silva LO & Mori WB (2012). Modeling Laser Wakefield Acceleration on Tier-0 systems. AAC - Advanced Accelerator Concepts Workshop 2012.
250	Vranic M, Martins JL, Vieira J, Fonseca, R. A. & Silva LO (2012). Exploring the radiation reaction at 10^{21} W/cm ² . 54th Annual Meeting of the APS Division of Plasma Physics.
251	Tableman A, Tzoufras M, Fiuza F, Tsung FS, Fonseca, R. A. & Mori WB (2012). Hybrid-PIC Simulations of Shock Formation in Laser-Irradiated Plasmas. 54th Annual Meeting of the APS Division of Plasma Physics.
252	Fiuza F, Fonseca, R. A., Silva LO & Mori WB (2012). Full-scale modeling of ion acceleration from laser-solid interaction. AAC - Advanced Accelerator Concepts Workshop 2012.
253	Davidson AW, Zeng, M., Lu W, Joshi C, Silva LO, Martins JL...Mori WB (2012). Numerical Study of Self and Controlled Injection in 3D and 2D Wakefield Accelerators. 54th Annual Meeting of the APS Division of Plasma Physics.
254	Fiuza F, Fonseca, R. A., Silva LO & Mori WB (2012). Integrated hybrid-PIC modeling of fast ignition. 54th Annual Meeting of the APS Division of Plasma Physics.
255	Vranic M, Martins JL, Vieira J, Fonseca, R. A. & Silva LO (2012). All-optical radiation reaction configuration at $I \sim 10^{21}$ W/cm ² . AAC - Advanced Accelerator Concepts Workshop 2012.
256	Grismayer T, Vranic M, Fonseca, R. A., Harvey, C., Ilderton, A., Marklund, M....Silva LO (2012). On the path to pair production: self-consistent PIC modeling of high energy photons in laser-plasma interaction. 54th Annual Meeting of the APS Division of Plasma Physics.
257	Vranic M, Martins JL, Vieira J, Fonseca, R. A. & Silva LO (2011). Radiation reaction dominated regimes in the interaction of ultra intense lasers with electron beams and ion acceleration. LEI 2011 - Light at Extreme Intensities.
258	Alves EP, Grismayer T, Fonseca, R. A. & Silva LO (2011). Particle acceleration via the Kelvin-Helmholtz instability. 53rd Annual Meeting of the Division of Plasma Physics.
259	Fiuza F, Fonseca, R. A., Silva LO, Tonge JW, May J & Mori WB (2011). Full-scale modeling of fast ignition with ultra-intense lasers. SPIE Optics & Optoelectronics International Symposium.
260	Martins JL, Vieira J, Martins SF, Fonseca, R. A. & Silva LO (2011). Betatron X-ray sources based on laser-wakefield acceleration with multi-PW lasers. 38th EPS Plasma Physics Conference.

261	Raoul RMGM, Bingham R, Norreys P, Fiuza F, Fonseca, R. A., Silva LO...Cairns RA (2011). Production of picosecond, kilojoule, petawatt laser pulses via Raman amplification of nanosecond pulses. 53rd Annual Meeting of the Division of Plasma Physics.
262	Vranic M, Vieira J, Martins JL, Fonseca, R. A. & Silva LO (2011). Radiation cooling dominated regimes in the interaction of ultra intense lasers with electron beams and on ion acceleration. 53rd Annual Meeting of the Division of Plasma Physics.
263	Fiuza F, Fonseca, R. A., Silva LO, Tonge JW & Mori WB (2011). Three-dimensional multi-scale modeling of ion acceleration in laser-plasma interactions. SPIE Optics & Optoelectronics International Symposium.
264	Fonseca, R. A., Abreu P & Decyk VK (2011). Evaluation of GPGPU algorithms for electromagnetic particle-in-cell (EM-PIC) modeling of plasma based accelerators. 38th EPS Plasma Physics Conference.
265	Martins JL, Alves EP, Fonseca, R. A. & Silva LO (2011). Radiation from Weibel and Kelvin-Helmoltz unstable scenarios. 53rd Annual Meeting of the Division of Plasma Physics.
266	Fiuza F, Fonseca, R. A., Silva LO, Tonge JW & Mori WB (2011). Weibel mediated collisionless shocks in laboratory with ultraintense lasers. 53rd Annual Meeting of the Division of Plasma Physics.
267	Fiuza F, Raoul RMGM, Fonseca, R. A., Silva LO, Bingham R, Cairns RA...Norreys P (2011). Efficient Raman amplification into the multi-PW regime. SPIE Optics & Optoelectronics International Symposium.
268	Bendoyro R, Russo C, Jiang J, Fonseca, R. A., Silva LO & Lopes NC (2011). Improving the self-injection of electrons in a LWFA. 38th EPS Plasma Physics Conference.
269	Fonseca, R. A., Silva LO & Stockem A (2011). Perpendicular shocks in multi-component plasmas. 53rd Annual Meeting of the Division of Plasma Physics.
270	Vieira J, Lopes NC, Russo C, Fonseca, R. A., Mori WB & Silva LO (2011). Ion motion in the proton driven plasma wakefield accelerator. 53rd Annual Meeting of the Division of Plasma Physics.
271	Pathak VB, Fonseca, R. A., Silva LO & Tripathi VK (2011). Transverse density modulation on electron beam for radiation generation. SPIE Optics & Optoelectronics International Symposium.
272	Vieira J, Martins SF, Pathak VB, Martins JL, Fonseca, R. A. & Silva LO (2011). Controlled magnetic self-injection for laser and plasma wakefield accelerators. LPAW'11 - Laser and Plasma Accelerator Workshop.
273	Fonseca, R. A., Abreu P, Fiuza F, Martins JL, Vieira J, Silva LO...Mori WB (2011). Full-scale EM-PIC modeling: new developments in the OSIRIS framework. 53rd Annual Meeting of the Division of Plasma Physics.
274	Pathak VB, Vieira J, Fonseca, R. A. & Silva LO (2011). Laser wakefield acceleration using lasers with longitudinal and transverse frequency chirp. 53rd Annual Meeting of the Division of Plasma Physics.
275	Vranic M, Martins JL, Martins SF, Fonseca, R. A. & Silva LO (2011). Radiation cooling dominated regimes in particle-in-cell simulations. SPIE Optics & Optoelectronics International Symposium.
276	Fiuza F, Fonseca, R. A., Silva LO, Tonge JW & Mori WB (2011). Multi-scale PIC modeling of high energy density scenarios: from laboratory to astrophysics. International Conference on Numerical Simulation of Plasmas, ICNSP'11.
277	Silva LO, Fiuza F, Marti M, Fonseca, R. A., Tonge JW, May J...Mori WB (2011). Full-scale PIC simulations of fast ignition. 53rd Annual Meeting of the Division of Plasma Physics.

278	Stockem A, Fonseca, R. A. & Silva LO (2011). Kinetic effects in relativistic shocks. ISSI Meeting: Collisionless shock physics: from non-relativistic to relativistic shocks.
279	Stockem A, Fonseca, R. A. & Silva LO (2011). Kinetic effects in relativistic shocks. 5th international conference on the frontiers of plasma physics and technology.
280	Grismayer T, Alves EP, Fonseca, R. A. & Silva LO (2011). Large-scale magnetic field generation via the Kelvin-Helmholtz instability. 53rd Annual Meeting of the Division of Plasma Physics.
281	Vieira J, Martins SF, Pathak VB, Martins JL, Fonseca, R. A., Mori WB...Silva LO (2011). Magnetic field assisted self-injection in plasma based acceleration. 3rd International Conference on Ultra-Intense Laser Interaction Science.
282	Boella E, Fiuza F, Fonseca, R. A., Silva LO, Harberger D, Tochitsky S...Joshi C (2011). Laser-driven shock acceleration of monoenergetic ion beams. 53rd Annual Meeting of the Division of Plasma Physics.
283	Stockem A, Fonseca, R. A. & Silva LO (2011). Kinetic effects in relativistic shocks. Modern trends in theoretical plasma physics workshop.
284	Vieira J, Martins SF, Pathak VB, Martins JL, Fonseca, R. A., Silva LO...Mori WB (2011). Controlled self-injection in LWFA with external B-fields. ICHED 2011 - 3rd International Conference on High Energy Density Physics.
285	Davidson AW, Lu W, Joshi C, Silva LO, Martins JL, Fonseca, R. A....Mori WB (2011). Beam quality from self and ionization induced trapping in the nonlinear LWFA regime. 53rd Annual Meeting of the Division of Plasma Physics.
286	Martins JL, Vieira J, Martins SF, Fonseca, R. A. & Silva LO (2011). Multi-PW laser-driven plasma accelerators as betatron radiation sources. 3rd International Conference on Ultra-Intense Laser Interaction Science.
287	Harberger D, Tochitsky S, Gong C, Mori WB, Joshi C, Fiuza F...Silva LO (2011). Narrow Energy-Spread Proton Beams Generated in a Gas Jet by High-Power CO ₂ Laser Pulses. 53rd Annual Meeting of the Division of Plasma Physics.
288	Vranic M, Martins JL, Fonseca, R. A. & Silva LO (2011). Radiation cooling in particle-in-cell simulations. Wilhelm & Else Heraeus Seminar: Problems and Developments of Classical Electrodynamics.
289	Fiuza F, Fonseca, R. A., Silva LO, Tonge JW & Mori WB (2011). Full-scale simulations of fast ignition of fusion targets. ICHED 2011 - 3rd International Conference on High Energy Density Physics.
290	Vranic, M., Martins, J. L., Vieira, J., Fonseca, R. A. & Silva, L. O. (2011). Radiation reaction and gamma-ray production in colliding pulse configurations. 3rd International Conference on Ultra-Intense Laser Interaction Science.
291	Yu P, Lu W, Tsung FS, Mori WB, Vieira J, Fonseca, R. A....Silva LO (2011). Recent OSIRIS simulation results of LWFA using the Lorentz boosted frame method. 53rd Annual Meeting of the Division of Plasma Physics.
292	Vranic M, Vieira J, Martins JL, Martins SF, Fonseca, R. A. & Silva LO (2011). Radiation cooling dominated regimes in particle-in-cell simulations. 3rd International Conference on Ultra-Intense Laser Interaction Science.
293	Tonge JW, Tableman A, May J, Tzoufras M, Mori WB, Fiuza F...Ren C (2011). A Study of Electron Divergence in Fast Ignition using the Hybrid-PIC Simulation Code OSIRIS. 53rd Annual Meeting of the Division of Plasma Physics.

294	Vieira J, Martins SF, Pathak VB, Martins JL, Fonseca, R. A., Silva LO...Mori WB (2011). Controlling and optimizing plasma accelerators towards applications at the energy frontier. Alpha-X Meeting.
295	Pathak VB, Vieira J, Fonseca, R. A. & Silva LO (2011). Frequency chirp for laser driven wakefield acceleration. ICHED 2011 - 3rd International Conference on High Energy Density Physics.
296	Fiuza F, Fonseca, R. A., Silva LO, Tonge JW & Mori WB (2011). Multi-scale simulation techniques for laboratory and astrophysical shocks. ISSI Meeting on Fermi Shock Acceleration Process: From Non-Relativistic to Ultra-Relativistic Shocks.
297	Fiuza F, Fonseca, R. A., Silva LO, Tonge JW & Mori WB (2011). Multi-scale PIC modeling of laser-plasma interactions in high density scenarios. 3rd International Conference on Ultra-Intense Laser Interaction Science.
298	May J, Tonge JW, Fiuza F, Fonseca, R. A., Silva LO, Ren C...Mori WB (2011). Absorption of High Intensity Lasers at Solid Density. 53rd Annual Meeting of the Division of Plasma Physics.
299	Fiuza F, Raoul RMGM, Fonseca, R. A., Silva LO, Bingham R, Cairns RA...Norreys P (2011). Simulations of efficient Raman amplification into the multi-petawatt regime. Alpha-X Meeting.
300	Stockem A, Fonseca, R. A. & Silva LO (2011). Impact of non-thermal particles on jump conditions in relativistic shocks. 38th EPS Plasma Physics Conference.
301	Abreu P, Fonseca, R. A. & Silva LO (2011). DataLight: data transfer and logging of large output applications in Grid environments. Ibergrid 2011 - 5th Iberian Grid Infrastructure Conference.
302	Martins JL, Vieira J, Martins SF, Fonseca, R. A. & Silva LO (2011). Betatron radiation from multi-PW laser driven wakefield accelerators. 68th Scottish Universities Summer School in Physics: Laser-Plasma Interactions and Applications.
303	Tableman A, Tonge JW, Tzoufras M, May J, Mori WB, Fiuza F...Silva LO (2011). Shock ignition electron transport simulations with the hybrid particle in cell code OSIRIS. 53rd Annual Meeting of the Division of Plasma Physics.
304	Pathak VB, Vieira J, Fiuza F, Fonseca, R. A. & Silva LO (2011). Frequency variation in laser driven wakefield acceleration. SPIE Optics & Optoelectronics International Symposium.
305	Vranic M, Fonseca, R. A. & Silva LO (2011). Radiation reaction effects in ion acceleration. 38th EPS Plasma Physics Conference.
306	Fiuza F, Marti M, Fonseca, R. A., Silva LO, Tonge JW, May J...Mori WB (2011). Full-scale PIC simulations of fast ignition of ICF targets. 7th Inertial Fusion Sciences and Applications.
307	Fabio Peano, Fonseca, R. A., Marti, M., Martins, S.F., Martins, J. L. & Silva, L. O. (2005). Controlled shock shells and intracluster fusion reactions in the coulomb explosion of very large clusters. 32nd EPS Conference on Plasma Physics 2005, EPS 2005, Held with the 8th International Workshop on Fast Ignition of Fusion Targets - Europhysics Conference Abstracts.

• Outras Publicações

- Artigo sem avaliação científica

1	Silva, J., Pardal M, Mendonça JT & Fonseca, R. A. (2020). Generalized superradiance for producing broadband
---	---

	coherent radiation with transversely modulated arbitrarily diluted bunches. Nature Physics.
2	Shulka N, Schoeffler, K. M., Boella E, Silva, J., Fonseca, R. A. & Silva, J. (2020). Interplay between the Weibel instability and the Biermann battery in realistic laser-solid interactions. Physical Review Research. - N.º de citações Web of Science®: 3

- Outras publicações

1	Cruz F, Alves EP, Bamford RA, Bingham R, Fonseca, R. A. & Silva, J. (2015). PIC simulations of collisionless shocks in laboratory-scaled mini magnetospheres. 42nd EPS Conference on Plasma Physics.
2	Balzarini A, Fonseca, R. A., Silva, J., Boella E & Silva, J. (2015). Initialization of charged particle beam in OSIRIS. 42nd EPS Conference on Plasma Physics. - N.º de citações Scopus: 1
3	Silva, J., Muggli, P., Mori, W. B., Fonseca, R. A. & Silva, J. (2014). Hosing instability suppression in self-modulated wakefields. 41st EPS Conference on Plasma Physics. - N.º de citações Scopus: 31
4	Monteiro, J., Garrido, N. & Fonseca, R. A. (2011). An experimental study of an efficient supercapacitor stacking scheme to power mobile phones. INTELEC 2011 - 2011 33rd International Telecommunications Energy Conference.
5	Kneip, S., Nagel, S. R., Martins, S. F., Mangles, S. P. D., Bellei, C., Chekhlov, O....Najmudin, Z. (2009). Erratum: Near-GeV acceleration of electrons by a nonlinear plasma wave driven by a self-guided laser pulse (Physical Review Letters (2009) 103 (035002)). Physical Review Letters.
6	C. D. Murphy, Trines, R. M. G., Vieira, J, A. J. W. Reitsma, Bingham R, J. L. Collier...Najmudin, Z. (2006). Erratum: Evidence of photon acceleration by laser wake fields (Physics of Plasmas (2006) 13 (033108)). Physics of Plasmas.

Cargos de Gestão Académica

Membro da Comissão Permanente do Conselho Científico do ISCTE-IUL (2021 - 2023)
Unidade/Área: Comissão Permanente do Conselho Científico

Membro do Plenário do Conselho Científico do ISCTE-IUL (2021 - 2023)
Unidade/Área: Plenário do Conselho Científico

Coordenador da unidade curricular Computação de Alto Desempenho (2020)
Unidade/Área: Ciências e Tecnologias da Programação

Coordenador da unidade curricular Computação de Alto Desempenho (2019)
Unidade/Área: Ciências e Tecnologias da Programação

Coordenador da unidade curricular Computação de Alto Desempenho (2017 - 2018)
Unidade/Área: Ciências e Tecnologias da Programação

Presidente da Comissão Pedagógica da Escola de Tecnologias e Arquitectura (2017 - 2018)
Unidade/Área: Comissão Pedagógica

Director da Escola de Tecnologias e Arquitectura (2016 - 2018)
Unidade/Área: Escola de Tecnologias e Arquitectura

Presidente do Plenário da Comissão Científica da Escola de Tecnologias e Arquitectura (2016 - 2018)
Unidade/Área: Plenário da Comissão Científica

Presidente da Comissão Permanente da Comissão Científica da Escola de Tecnologias e Arquitectura (2016 - 2018)
Unidade/Área: Comissão Científica

Presidente da Comissão Pedagógica da Escola de Tecnologias e Arquitectura (2015 - 2017)
Unidade/Área: Comissão Pedagógica

Coordenador da unidade curricular Computação de Alto Desempenho (2014 - 2015)
Unidade/Área: Ciências e Tecnologias da Programação

Associações Profissionais

Associação Europeia de Física (Desde 2002)

Associação Americana de Física (Desde 1999)