

Loren Steinhauer

List of Publications by Year in descending order

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34
papers

480
citations

933264

10
h-index

677027

22
g-index

34
all docs

34
docs citations

34
times ranked

237
citing authors

#	ARTICLE	IF	CITATIONS
1		0.7	112
2	Formation of a long-lived hot field reversed configuration by dynamically merging two colliding high- \hat{I}^2 compact toroids. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	56
3	Achieving a long-lived high-beta plasma state by energetic beam injection. <i>Nature Communications</i> , 2015, 6, 6897.	5.8	47
4	Recent breakthroughs on C-2U: Norman's legacy. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	46
5	Transport, energy balance, and stability of a large field-reversed configuration. <i>Physics of Plasmas</i> , 1995, 2, 2286-2291.	0.7	36
6	Suppressed ion-scale turbulence in a hot high- \hat{I}^2 plasma. <i>Nature Communications</i> , 2016, 7, 13860.	5.8	31
7	Observations of improved confinement in field reversed configurations sustained by antisymmetric rotating magnetic fields. <i>Physics of Plasmas</i> , 2005, 12, 062507.	0.7	22
8	Improved confinement and current drive of high temperature field reversed configurations in the new translation, confinement, and sustainment upgrade device. <i>Physics of Plasmas</i> , 2008, 15, 056101.	0.7	21
9	Local modes of field-reversed configurations. <i>Physics of Plasmas</i> , 1994, 1, 4022-4031.	0.7	17
10	Equilibrium rotation in field-reversed configurations. <i>Physics of Plasmas</i> , 2008, 15, 012505.	0.7	12
11	Multifluid model of a one-dimensional steady state magnetotail current sheet. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	9
12	Two-dimensional interpreter for field-reversed configurations. <i>Physics of Plasmas</i> , 2014, 21, 082516.	0.7	9
13	Toroidal field stabilization of the rotational instability in field-reversed configurations. <i>Physics of Plasmas</i> , 2008, 15, 022508.	0.7	7
14	Improved Confinement of C-2 Field-Reversed Configuration Plasmas. <i>Fusion Science and Technology</i> , 2015, 68, 44-49.	0.6	7
15	Coupled transport in field-reversed configurations. <i>Physics of Plasmas</i> , 2018, 25, 022503.	0.7	7
16	Fast local mode properties in field-reversed configurations. <i>Physics of Plasmas</i> , 1996, 3, 4278-4280.	0.7	6
17	Simulation of equilibrium and transport in advanced FRCS. <i>Nuclear Fusion</i> , 2021, 61, 106038.	1.6	6
18	Challenge End-Plugged FRC Concept. <i>Journal of Fusion Energy</i> , 2010, 29, 577-579.	0.5	5

#	ARTICLE	IF	CITATIONS
19	Plasma-based advanced accelerators at the Brookhaven Accelerator Test Facility. Laser Physics, 2006, 16, 259-266.	0.6	4
20	Update on Seeded SM-LWFA and Pseudo-Resonant LWFA Experiments " (STELLA-LW). AIP Conference Proceedings, 2006, , .	0.3	4
21	Tearing relaxation and the globalization of transport in field-reversed configurations. Physics of Plasmas, 2009, 16, .	0.7	4
22	Achievement of a New High-Confinement, Collisionless FRC State in TCS-Upgrade. Journal of Fusion Energy, 2009, 28, 152-155.	0.5	4
23	Anatomy of a field-reversed configuration. Physics of Plasmas, 2020, 27, .	0.7	3
24	Gyroscopic effect in compact toroidal plasmas. Physics of Plasmas, 2004, 11, 3646-3652.	0.7	2
25	Measurements accounting for the impediment of ion spin-up in rotating magnetic field driven field reversed configurations. Physics of Plasmas, 2011, 18, .	0.7	2
26	Expanded Model Predictions for Seeded SM-LWFA and Pseudo-Resonant LWFA. AIP Conference Proceedings, 2006, , .	0.3	1
27	Demonstration of a laser-driven prebuncher staged with a laser accelerator"the STELLA program. AIP Conference Proceedings, 2001, , .	0.3	0
28	Analysis of Laser Wakefield Acceleration Using ATF CO2 Laser. AIP Conference Proceedings, 2002, , .	0.3	0
29	Analytical Modeling of Pseudo-Resonant LWFA in a Capillary Discharge. AIP Conference Proceedings, 2004, , .	0.3	0
30	Gas-Filled Capillary Model. AIP Conference Proceedings, 2006, , .	0.3	0
31	Antisymmetric RMF Current Drive in FRCs. Journal of Fusion Energy, 2007, 26, 123-126.	0.5	0
32	Improved Stability and Confinement in a High- \hat{I}^2 Relaxed Plasma State. Journal of Fusion Energy, 2007, 26, 53-56.	0.5	0
33	New Evidence of Relaxation in High- \hat{I}^2 Plasmas Driven by Rotating Magnetic Fields. Journal of Fusion Energy, 2008, 27, 32-35.	0.5	0
34	Rotational stability of a long field-reversed configuration. Physics of Plasmas, 2014, 21, 022506.	0.7	0