

J-M Rax

List of Publications by Year in descending order

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29
papers

770
citations

516710

16
h-index

501196

28
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29
all docs

29
docs citations

29
times ranked

604
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of energetic alpha particles with intense lower hybrid waves. <i>Physical Review Letters</i> , 1992, 69, 612-615.	7.8	215
2	An ultracompact X-ray source based on a laser-plasma undulator. <i>Nature Communications</i> , 2014, 5, 4736.	12.8	57
3	Current drive by lower hybrid waves in the presence of energetic alpha particles. <i>Nuclear Fusion</i> , 1992, 32, 549-556.	3.5	47
4	Effective diffusion and nonlocal heat transport in a stochastic magnetic field. <i>Physical Review Letters</i> , 1992, 68, 1523-1526.	7.8	42
5	Opportunities for plasma separation techniques in rare earth elements recycling. <i>Journal of Cleaner Production</i> , 2018, 182, 1060-1069.	9.3	38
6	Magnetic field generation through angular momentum exchange between circularly polarized radiation and charged particles. <i>Physical Review E</i> , 2002, 65, 046403.	2.1	37
7	Magnetic-field generation and electron acceleration in relativistic laser channel. <i>Physics of Plasmas</i> , 2002, 9, 636-648.	1.9	31
8	Angular-Momentum Evolution in Laser-Plasma Accelerators. <i>Physical Review Letters</i> , 2013, 111, 135002.	7.8	30
9	The double well mass filter. <i>Physics of Plasmas</i> , 2014, 21, 020701.	1.9	27
10	$E \times B$ configurations for high-throughput plasma mass separation: An outlook on possibilities and challenges. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	26
11	Rotation and instabilities for isotope and mass separation. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	24
12	Efficiency of wave-driven rigid body rotation toroidal confinement. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	22
13	Autoresonant ion cyclotron isotope separation. <i>Physics of Plasmas</i> , 2007, 14, 043102.	1.9	20
14	Nonlinear ohmic dissipation in axisymmetric DC and RF driven rotating plasmas. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	20
15	Relativistic second-harmonic generation and conversion in a weakly magnetized plasma. <i>Physics of Plasmas</i> , 2000, 7, 1026-1034.	1.9	18
16	Harnessing mass differential confinement effects in magnetized rotating plasmas to address new separation needs. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014018.	2.1	18
17	Radial current and rotation profile tailoring in highly ionized linear plasma devices. <i>Physics of Plasmas</i> , 2019, 26, 082309.	1.9	16
18	Relativistic kinetic theory of pitch angle scattering, slowing down, and energy deposition in a plasma. <i>Physical Review E</i> , 2004, 70, 046405.	2.1	14

#	ARTICLE	IF	CITATIONS
19	Breakdown of the Brillouin limit and classical fluxes in rotating collisional plasmas. Physics of Plasmas, 2015, 22, .	1.9	13
20	Centrifugal instability in the regime of fast rotation. Physics of Plasmas, 2017, 24, .	1.9	13
21	A necessary condition for perpendicular electric field control in magnetized plasmas. Physics of Plasmas, 2019, 26, .	1.9	11
22	Theory of unfolded cyclotron accelerator. Physics of Plasmas, 2010, 17, .	1.9	6
23	Drift and separation in collisionality gradients. Physics of Plasmas, 2017, 24, .	1.9	5
24	Noninductive current profile broadening by electric and magnetic fluctuations. Physics of Plasmas, 1999, 6, 3233-3238.	1.9	4
25	Physics of Landau Resonances, Cyclotron Resonances, and Current Generation. Fusion Science and Technology, 2014, 65, 10-21.	1.1	4
26	Faradayâ€™Fresnel rotation and splitting of orbital angular momentum carrying waves in a rotating plasma. Journal of Plasma Physics, 2021, 87, .	2.1	4
27	Neutral-gas depletion and repletion in plasmas. Physics of Plasmas, 2010, 17, 043502.	1.9	3
28	Kinetic theory of transport driven current in centrally fuelled plasmas. Physics of Plasmas, 2018, 25, .	1.9	3
29	Geometric phase in Brillouin flows. Physics of Plasmas, 2019, 26, 122111.	1.9	2