

# J-M Rax

## List of Publications by Year in descending order

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29  
papers

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citations

516710

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501196

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times ranked

604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Faradayâ€™Fresnel rotation and splitting of orbital angular momentum carrying waves in a rotating plasma. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	4
2	Radial current and rotation profile tailoring in highly ionized linear plasma devices. <i>Physics of Plasmas</i> , 2019, 26, 082309.	1.9	16
3	Eâ€™ configurations for high-throughput plasma mass separation: An outlook on possibilities and challenges. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	26
4	A necessary condition for perpendicular electric field control in magnetized plasmas. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	11
5	Geometric phase in Brillouin flows. <i>Physics of Plasmas</i> , 2019, 26, 122111.	1.9	2
6	Nonlinear ohmic dissipation in axisymmetric DC and RF driven rotating plasmas. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	20
7	Opportunities for plasma separation techniques in rare earth elements recycling. <i>Journal of Cleaner Production</i> , 2018, 182, 1060-1069.	9.3	38
8	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
9	Kinetic theory of transport driven current in centrally fuelled plasmas. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	3
10	Drift and separation in collisionality gradients. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	5
11	Centrifugal instability in the regime of fast rotation. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	13
12	Efficiency of wave-driven rigid body rotation toroidal confinement. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	22
13	Rotation and instabilities for isotope and mass separation. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	24
14	Breakdown of the Brillouin limit and classical fluxes in rotating collisional plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	13
15	The double well mass filter. <i>Physics of Plasmas</i> , 2014, 21, 020701.	1.9	27
16	An ultracompact X-ray source based on a laser-plasma undulator. <i>Nature Communications</i> , 2014, 5, 4736.	12.8	57
17	Physics of Landau Resonances, Cyclotron Resonances, and Current Generation. <i>Fusion Science and Technology</i> , 2014, 65, 10-21.	1.1	4
18	Angular-Momentum Evolution in Laser-Plasma Accelerators. <i>Physical Review Letters</i> , 2013, 111, 135002.	7.8	30

#	ARTICLE	IF	CITATIONS
19	Theory of unfolded cyclotron accelerator. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	6
20	Neutral-gas depletion and repletion in plasmas. <i>Physics of Plasmas</i> , 2010, 17, 043502.	1.9	3
21	Autoresonant ion cyclotron isotope separation. <i>Physics of Plasmas</i> , 2007, 14, 043102.	1.9	20
22	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
23	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
24	Magnetic-field generation and electron acceleration in relativistic laser channel. <i>Physics of Plasmas</i> , 2002, 9, 636-648.	1.9	31
25	Relativistic second-harmonic generation and conversion in a weakly magnetized plasma. <i>Physics of Plasmas</i> , 2000, 7, 1026-1034.	1.9	18
26	Noninductive current profile broadening by electric and magnetic fluctuations. <i>Physics of Plasmas</i> , 1999, 6, 3233-3238.	1.9	4
27	Interaction of energetic alpha particles with intense lower hybrid waves. <i>Physical Review Letters</i> , 1992, 69, 612-615.	7.8	215
28	Current drive by lower hybrid waves in the presence of energetic alpha particles. <i>Nuclear Fusion</i> , 1992, 32, 549-556.	3.5	47
29	Effective diffusion and nonlocal heat transport in a stochastic magnetic field. <i>Physical Review Letters</i> , 1992, 68, 1523-1526.	7.8	42