

# Jacob Frederiksen

## List of Publications by Year in descending order

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26  
papers

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citations

759233

12  
h-index

713466

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g-index

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26  
docs citations

26  
times ranked

536  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Field Generation in Collisionless Shocks: Pattern Growth and Transport. <i>Astrophysical Journal</i> , 2004, 608, L13-L16.	4.5	209
2	Non-Fermi Power-Law Acceleration in Astrophysical Plasma Shocks. <i>Astrophysical Journal</i> , 2004, 617, L107-L110.	4.5	89
3	Nonlinear evolution of the magnetized Kelvin-Helmholtz instability: From fluid to kinetic modeling. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	48
4	Evolution of the fastest-growing relativistic mixed mode instability driven by a tenuous plasma beam in one and two dimensions. <i>Physics of Plasmas</i> , 2006, 13, 112110.	1.9	35
5	RADIATION SIGNATURES OF SUB-LARMOR SCALE MAGNETIC FIELDS. <i>Astrophysical Journal</i> , 2011, 737, 55.	4.5	35
6	RADIATION SPECTRAL SYNTHESIS OF RELATIVISTIC FILAMENTATION. <i>Astrophysical Journal Letters</i> , 2010, 722, L114-L119.	8.3	30
7	<scp>photon-plasma</scp>: A modern high-order particle-in-cell code. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	26
8	SWIFF: Space weather integrated forecasting framework. <i>Journal of Space Weather and Space Climate</i> , 2013, 3, A05.	3.3	21
9	Radiation from relativistic shocks in turbulent magnetic fields. <i>Advances in Space Research</i> , 2011, 47, 1434-1440.	2.6	17
10	Resistive magnetohydrodynamic reconnection: Resolving long-term, chaotic dynamics. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	17
11	Electromagnetic turbulence driven by the mixed mode instability. <i>Physics of Plasmas</i> , 2008, 15, 094503.	1.9	13
12	Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields. <i>Galaxies</i> , 2016, 4, 38.	3.0	12
13	Electrical band-gap energy of porous silicon and the band offsets at the porous-silicon/crystalline-silicon heterojunction measured versus sample temperature. <i>Physical Review B</i> , 1998, 58, 8020-8024.	3.2	11
14	Stochastically Induced Gamma-Ray Burst Wakefield Processes. <i>Astrophysical Journal</i> , 2008, 680, L5-L8.	4.5	10
15	Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields: Dependence on Jet Radius. <i>Galaxies</i> , 2017, 5, 58.	3.0	10
16	RADIATION FROM RELATIVISTIC SHOCKS WITH TURBULENT MAGNETIC FIELDS. <i>International Journal of Modern Physics D</i> , 2010, 19, 715-721.	2.1	9
17	The Electrical Band-Gap Energy of Porous Silicon Measured Versus Sample Temperature. <i>Journal of Porous Materials</i> , 2000, 7, 271-273.	2.6	6
18	New Relativistic Particle-In-Cell Simulation Studies of Prompt and Early Afterglows from GRBs. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
19	SIMULATION OF RELATIVISTIC JETS AND ASSOCIATED SELF-CONSISTENT RADIATION. International Journal of Modern Physics Conference Series, 2012, 08, 259-264.	0.7	6
20	Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection. EPJ Web of Conferences, 2013, 61, 02003.	0.3	4
21	Trans-Debye Scale Plasma Modeling & Stochastic GRB Wakefield Plasma Processes. AIP Conference Proceedings, 2008, , .	0.4	2
22	Simulation of relativistic shocks and associated radiation from turbulent magnetic fields. Proceedings of the International Astronomical Union, 2010, 6, 354-357.	0.0	1
23	Simulation of Relativistic Shocks and Associated Self-consistent Radiation. , 2010, , .		1
24	Magnetic Field Generation and Electron Acceleration in Collisionless Shocks. , 2005, , 211-215.		1
25	Radiation from accelerated particles in shocks. Proceedings of the International Astronomical Union, 2011, 7, 371-372.	0.0	0
26	PARTICLE ACCELERATION AND MAGNETIC FIELD GENERATION IN SHEAR-FLOWS. International Journal of Modern Physics Conference Series, 2014, 28, 1460195.	0.7	0