

# Xiangrong Fu

## List of Publications by Year in descending order

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21  
papers

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citations

1040056

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docs citations

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times ranked

612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Parametric Decay of Alfvénic Wave Packets in Nonperiodic Low-beta Plasmas. <i>Astrophysical Journal</i> , 2022, 924, 33.	4.5	6
2	Magnetic Energy Conversion in Magnetohydrodynamics: Curvature Relaxation and Perpendicular Expansion of Magnetic Fields. <i>Astrophysical Journal</i> , 2022, 925, 128.	4.5	4
3	On the Existence of Fast Modes in Compressible Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2022, 926, 222.	4.5	18
4	Evidence for Parametric Decay Instability in the Lower Solar Atmosphere. <i>Astrophysical Journal</i> , 2022, 933, 52.	4.5	3
5	Heating of Heavy Ions in Low-beta Compressible Turbulence. <i>Astrophysical Journal</i> , 2020, 890, 161.	4.5	7
6	A New Perspective for Dipolarization Front Dynamics: Electromagnetic Effects of Velocity Inhomogeneity. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7533-7542.	2.4	3
7	PreMeV-E: New Predictive Model for Megaelectronvolt Electrons Inside Earth's Outer Radiation Belt. <i>Space Weather</i> , 2019, 17, 438-454.	3.7	24
8	Parametric Decay Instability and Dissipation of Low-frequency Alfvén Waves in Low-beta Turbulent Plasmas. <i>Astrophysical Journal</i> , 2018, 855, 139.	4.5	17
9	Scalings for the Alfvén-cyclotron instability: Linear dispersion theory and hybrid particle-in-cell simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 464-474.	2.4	7
10	Hybrid Simulations of Positively and Negatively Charged Pickup Ions and Cyclotron Wave Generation at Europa. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10408-10420.	2.4	12
11	Generation of Highly Oblique Lower Band Chorus Via Nonlinear Three-Wave Resonance. <i>Geophysical Research Letters</i> , 2017, 44, 9532-9538.	4.0	23
12	On the generation of double layers from ion- and electron-acoustic instabilities. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	5
13	Predicting electromagnetic ion cyclotron wave amplitude from unstable ring current plasma conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,954.	2.4	16
14	Nonlinear subcyclotron resonance as a formation mechanism for gaps in banded chorus. <i>Geophysical Research Letters</i> , 2015, 42, 3150-3159.	4.0	16
15	Particle-in-cell simulations of velocity scattering of an anisotropic electron beam by electrostatic and electromagnetic instabilities. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	8
16	Whistler anisotropy instabilities as the source of banded chorus: Van Allen Probes observations and particle-in-cell simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8288-8298.	2.4	101
17	Turbulent impurity transport modeling for Alcator C-Mod. <i>Journal of Plasma Physics</i> , 2013, 79, 837-846.	2.1	3
18	Validation of electron temperature gradient turbulence in the Columbia Linear Machine. <i>Physics of Plasmas</i> , 2012, 19, 032303.	1.9	5

#	ARTICLE	IF	CITATIONS
19	Parameter Optimization Studies for a Tandem Mirror Neutron Source. Journal of Fusion Energy, 2010, 29, 521-526.	1.2	3
20	Nonlinear dynamics of the electromagnetic ion cyclotron structures in the inner magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	3
21	The process of electron acceleration during collisionless magnetic reconnection. Physics of Plasmas, 2006, 13, 012309.	1.9	205