

# Yong Xiao

## List of Publications by Citations

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27  
papers

618  
citations

14  
h-index

24  
g-index

29  
ext. papers

696  
ext. citations

2.4  
avg, IF

3.88  
L-index

#	Paper	IF	Citations
27	Turbulent transport of trapped-electron modes in collisionless plasmas. <i>Physical Review Letters</i> , <b>2009</b> , 103, 085004	7.4	94
26	Electromagnetic formulation of global gyrokinetic particle simulation in toroidal geometry. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 122307	2.1	90
25	Gyrokinetic particle simulation of beta-induced Alfvén eigenmode. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 112505	2.1	59
24	Gyrokinetic particle simulations of reversed shear Alfvén eigenmode excited by antenna and fast ions. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 112504	2.1	53
23	Global gyrokinetic particle simulations with kinetic electrons. <i>Plasma Physics and Controlled Fusion</i> , <b>2007</b> , 49, B163-B172	2	41
22	Gyrokinetic particle simulation of microturbulence for general magnetic geometry and experimental profiles. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 022516	2.1	34
21	Microturbulence in DIII-D tokamak pedestal. I. Electrostatic instabilities. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 042110	2.1	31
20	Global gyrokinetic particle simulation of toroidal Alfvén eigenmodes excited by antenna and fast ions. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 022507	2.1	29
19	Fluctuation characteristics and transport properties of collisionless trapped electron mode turbulence. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 022302	2.1	28
18	New Paradigm for Turbulent Transport Across a Steep Gradient in Toroidal Plasmas. <i>Physical Review Letters</i> , <b>2017</b> , 118, 095001	7.4	25
17	Scalings of energetic particle transport by ion temperature gradient microturbulence. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 055902	2.1	25
16	Unconventional ballooning structures for toroidal drift waves. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 090703	2.1	19
15	Convective motion in collisionless trapped electron mode turbulence. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 110703	2.1	17
14	Parallel equilibrium current effect on existence of reversed shear Alfvén eigenmodes. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 022518	2.1	14
13	Nonlinear dynamics of beta-induced Alfvén eigenmode in tokamak. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 012510	2.1	14
12	Impurity effects on ion temperature gradient driven multiple modes in transport barriers. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 076013	3.3	9
11	Gyrokinetic simulation of dissipative trapped electron mode in tokamak edge. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 052509	2.1	6

10	Guiding Center Orbit Studies in a Tokamak Edge Geometry Employing Boozer and Cartesian Coordinate. <i>Contributions To Plasma Physics</i> , <b>2008</b> , 48, 224-228	1.4	6
9	Turbulent transport of toroidal angular momentum in fusion plasmas. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 012314		5
8	Global gyrokinetic particle simulations of microturbulence in W7-X and LHD stellarators. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 082305	2.1	5
7	Sensitivity of kinetic ballooning mode instability to tokamak equilibrium implementations. <i>Journal of Plasma Physics</i> , <b>2016</b> , 82,	2.7	4
6	Microturbulence in DIII-D tokamak pedestal. III. Effects of collisions. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 122507	2.1	4
5	Gyrokinetic particle simulation of electrostatic microturbulence with impurity ions. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 082508	2.1	3
4	Global gyrokinetic simulation of neoclassical ambipolar electric field and its effects on microturbulence in W7-X stellarator. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 062309	2.1	2
3	Nonlinear gyrokinetic particle simulation of dissipative trapped electron mode. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 102303	2.1	1
2	Drift Alfvén energetic particle stability with circulating particles. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 062505	2.1	0
1	Gyrokinetic Simulation of Turbulence in the High- $\beta$ Discharge on the Experimental Advanced Superconducting Tokamak. <i>Plasma Physics Reports</i> , <b>2020</b> , 46, 1137-1143	1.2	