

# Zongliang Dai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3645980/publications.pdf>

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12  
papers

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1684188  
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docs citations

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49  
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#	ARTICLE	IF	CITATIONS
1	A gyrokinetic continuum code based on the numerical Lie transform (NLT) method. Journal of Computational Physics, 2016, 316, 180-192.	3.8	26
2	Nonlinear gyrokinetic simulation of ion temperature gradient turbulence based on a numerical Lie-transform perturbation method. Physics of Plasmas, 2017, 24, .	1.9	15
3	Nonlinear gyrokinetic theory based on a new method and computation of the guiding-center orbit in tokamaks. Physics of Plasmas, 2014, 21, 042505.	1.9	11
4	A new continuum approach for nonlinear kinetic simulation and transport analysis. Physics of Plasmas, 2015, 22, .	1.9	8
5	Gyrokinetic simulation of ITG turbulence with toroidal geometry including the magnetic axis by using field-aligned coordinates. Computer Physics Communications, 2019, 242, 72-82.	7.5	6
6	Simulation of the alpha particle heating and the helium ash source in an International Thermonuclear Experimental Reactor-like tokamak with an internal transport barrier. Physics of Plasmas, 2014, 21, .	1.9	5
7	Implementation of field-aligned coordinates in a semi-Lagrangian gyrokinetic code for tokamak turbulence simulation. Plasma Science and Technology, 2018, 20, 074008.	1.5	4
8	Simulation study of entropy production in the one-dimensional Vlasov system. Physics of Plasmas, 2016, 23, 072116.	1.9	3
9	Numerical computation of the transport matrix in toroidal plasma with a stochastic magnetic field. Physics of Plasmas, 2018, 25, 042501.	1.9	3
10	Inâ€out impurity density asymmetry due to the Coriolis force in a rotating tokamak plasma. Nuclear Fusion, 2018, 58, 106036.	3.5	3
11	Theory of gyrokinetic velocity moment and its application for zonal flows in a tokamak plasma. Nuclear Fusion, 2020, 60, 046015.	3.5	3
12	Numerical computation of the transport matrix in a tokamak plasma with electrostatic turbulence. Physics of Plasmas, 2021, 28, .	1.9	2