M J Pueschel

List of Publications by Year
in descending order

61 papers	1,728 citations	218677 26 h-index	289244 40 g-index
61 all docs	61 docs citations	61 times ranked	890 citing authors

#	Article	IF	Citations
1	Gyrokinetic turbulence simulations at high plasma beta. Physics of Plasmas, 2008, 15, 102310.	1.9	127
2	Characterizing electron temperature gradient turbulence via numerical simulation. Physics of Plasmas, 2006, 13, 122306.	1.9	99
3	Gyrokinetic Microtearing Turbulence. Physical Review Letters, 2011, 106, 155003.	7.8	98
4	Transport properties of finite-Î² microturbulence. Physics of Plasmas, 2010, 17, .	1.9	89
5	Electromagnetic stabilization of tokamak microturbulence in a high-<i>Î²</i>regime. Plasma Physics and Controlled Fusion, 2015, 57, 014032.	2.1	70
6	Origin of Magnetic Stochasticity and Transport in Plasma Microturbulence. Physical Review Letters, 2012, 108, 235002.	7.8	64
7	On the role of numerical dissipation in gyrokinetic Vlasov simulations of plasma microturbulence. Computer Physics Communications, 2010, 181, 1428-1437.	7.5	62
8	Gyrokinetic prediction of microtearing turbulence in standard tokamaks. Physics of Plasmas, 2012, 19, .	1.9	59
9	Role of subdominant stable modes in plasma microturbulence. Physics of Plasmas, 2011, 18, .	1.9	51
10	Gyrokinetic study of ASDEX Upgrade inter-ELM pedestal profile evolution. Nuclear Fusion, 2015, 55, 063028.	3.5	51
11	Nonlinear Electromagnetic Stabilization of Plasma Microturbulence. Physical Review Letters, 2018, 120, 175002.	7.8	48
12	Quasilinear transport modelling at low magnetic shear. Physics of Plasmas, 2012, 19, .	1.9	42
13	Magnetic stochasticity and transport due to nonlinearly excited subdominant microtearing modes. Physics of Plasmas, 2013, 20, .	1.9	41
14	Gyrokinetic simulations of magnetic reconnection. Physics of Plasmas, 2011, 18, .	1.9	39
15	Extreme Heat Fluxes in Gyrokinetic Simulations: A New Critical<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>. Physical Review Letters, 2013, 110, 155005.	7.8	39
16	Stellarator Turbulence: Subdominant Eigenmodes and Quasilinear Modeling. Physical Review Letters, 2016, 116, 085001.	7.8	34
17	Subdominant Modes in Zonal-Flow-Regulated Turbulence. Physical Review Letters, 2014, 112, 095002.	7.8	33
18	Overview of gyrokinetic studies of finite-<i>Î²</i>microturbulence. Nuclear Fusion, 2015, 55, 104011.	3.5	33

#	Article	IF	Citations
19	Properties of high-Î² microturbulence and the non-zonal transition. Physics of Plasmas, 2013, 20, .	1.9	32
20	Microtearing modes as the source of magnetic fluctuations in the JET pedestal. Nuclear Fusion, 2021, 61, 036015.	3.5	32
21	Gyrokinetic studies of microinstabilities in the reversed field pinch. Physics of Plasmas, 2013, 20, .	1.9	30
22	On secondary and tertiary instability in electromagnetic plasma microturbulence. Physics of Plasmas, 2013, 20, .	1.9	30
23	The effect of magnetic flutter on residual flow. Physics of Plasmas, 2013, 20, .	1.9	27
24	Gyrokinetic studies of trapped electron mode turbulence in the Helically Symmetric eXperiment stellarator. Physics of Plasmas, 2015, 22, .	1.9	26
25	Saturation scalings of toroidal ion temperature gradient turbulence. Physics of Plasmas, 2018, 25, .	1.9	26
26	Stellarator microinstabilities and turbulence at low magnetic shear. Journal of Plasma Physics, 2018, 84, .	2.1	26
27	Turbulence-level dependence of cosmic ray parallel diffusion. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5051-5064.	4.4	26
28	MAGNETIC RECONNECTION TURBULENCE IN STRONG GUIDE FIELDS: BASIC PROPERTIES AND APPLICATION TO CORONAL HEATING. Astrophysical Journal, Supplement Series, 2014, 213, 30.	7.7	22
29	Gyrokinetic simulations of ETG and ITG turbulence. Nuclear Fusion, 2007, 47, 817-824.	3.5	21
30	Linear signatures in nonlinear gyrokinetics: interpreting turbulence with pseudospectra. New Journal of Physics, 2016, 18, 075018.	2.9	20
31	Microturbulence studies of pulsed poloidal current drive discharges in the reversed field pinch. Physics of Plasmas, 2015, 22, .	1.9	18
32	Regimes of cosmic-ray diffusion in Galactic turbulence. SN Applied Sciences, 2022, 4, 15.	2.9	18
33	Aspects of the non-zonal transition. Physics of Plasmas, 2014, 21, 055901.	1.9	17
34	Saturation and nonlinear electromagnetic stabilization of ITG turbulence. Physics of Plasmas, 2019, 26, 082302.	1.9	17
35	Turbulence, transport, and zonal flows in the Madison symmetric torus reversed-field pinch. Physics of Plasmas, 2017, 24, .	1.9	16
36	Direct Measurement of a Toroidally Directed Zonal Flow in a Toroidal Plasma. Physical Review Letters, 2019, 122, 105001.	7.8	15

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37	Multi-scale interactions of microtearing turbulence in the tokamak pedestal. Nuclear Fusion, 2020, 60, 124005.	3.5	15
38	Mode-space energy distribution in instability-driven plasma turbulence. Physics of Plasmas, 2014, 21, 122303.	1.9	14
39	On microinstabilities and turbulence in steep-gradient regions of fusion devices. Plasma Physics and Controlled Fusion, 2019, 61, 034002.	2.1	14
40	Threshold Heat-Flux Reduction by Near-Resonant Energy Transfer. Physical Review Letters, 2021, 126, 025004.	7.8	14
41	Predicting the critical gradient of ITG turbulence in fusion plasmas. Nuclear Fusion, 2021, 61, 054003.	3.5	14
42	Observation of trapped-electron-mode microturbulence in reversed field pinch plasmas. Physics of Plasmas, 2018, 25, .	1.9	13
43	Enhanced magnetic reconnection in the presence of pressure gradients. Physics of Plasmas, 2015, 22, .	1.9	12
44	Role of stable modes in driven shear-flow turbulence. Physics of Plasmas, 2018, 25, 122303.	1.9	12
45	A comparison of turbulent transport inÂaÂquasi-helical and a quasi-axisymmetricÂstellarator. Journal of Plasma Physics, 2019, 85, .	2.1	12
46	Coupling of damped and growing modes in unstable shear flow. Physics of Plasmas, 2017, 24, .	1.9	11
47	Turbulence mitigation in maximum-J stellarators with electron-density gradient. Journal of Plasma Physics, 2022, 88, .	2.1	11
48	Reduced models for ETG transport in the tokamak pedestal. Physics of Plasmas, 2022, 29, .	1.9	11
49	A basic plasma test for gyrokinetics: GDC turbulence in LAPD. Plasma Physics and Controlled Fusion, 2017, 59, 024006.	2.1	9
50	Effect of triangularity on ion-temperature-gradient-driven turbulence. Physics of Plasmas, 2022, 29, .	1.9	9
51	Quasilinear modeling of heat flux from microtearing turbulence. Physics of Plasmas, 2020, 27, .	1.9	8
52	Impact of resonant magnetic perturbations on zonal flows and microturbulence. Nuclear Fusion, 2020, 60, 096004.	3.5	8
53	Saturation physics of threshold heat-flux reduction. Physics of Plasmas, 2021, 28, .	1.9	8
54	Comparison of local and global gyrokinetic calculations of collisionless zonal flow damping in quasi-symmetric stellarators. Physics of Plasmas, 2021, 28, .	1.9	7

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55	Kinetic-ballooning-mode turbulence in low-average-magnetic-shear equilibria. Journal of Plasma Physics, 2021, 87, .	2.1	6
56	Anisotropic cosmic ray diffusion in isotropic Kolmogorov turbulence. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2658-2666.	4.4	6
57	Improving the stellarator through advances in plasma theory. Nuclear Fusion, 2022, 62, 042012.	3.5	5
58	The impact of magnetic fields on momentum transport and saturation of shear-flow instability by stable modes. Physics of Plasmas, 2021, 28, 022309.	1.9	4
59	Mechanism for sequestering magnetic energy at large scales in shear-flow turbulence. Physics of Plasmas, 2022, 29, .	1.9	4
60	Pair plasma instability in homogeneous magnetic guide fields. Physics of Plasmas, 2020, 27, .	1.9	2
61	Electromagnetic turbulence in increased Î² plasmas in the Large Plasma Device. Journal of Plasma Physics, 2021, 87, .	2.1	1