

Peter J Catto

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

460
citations

933447

10
h-index

677142

22
g-index

26
all docs

26
docs citations

26
times ranked

301
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Limitations of gyrokinetics on transport time scales. Plasma Physics and Controlled Fusion, 2008, 50, 065014. | 2.1 | 92 |
| 2 | Omnigenity as generalized quasisymmetry. Physics of Plasmas, 2012, 19, . | 1.9 | 50 |
| 3 | Bumpy torus transport in the low collision frequency limit. Physics of Fluids, 1981, 24, 290. | 1.4 | 49 |
| 4 | Transport of momentum in full f gyrokinetics. Physics of Plasmas, 2010, 17, . | 1.9 | 39 |
| 5 | Collisional damping for ion temperature gradient mode driven zonal flow. Physics of Plasmas, 2007, 14, 032302. | 1.9 | 36 |
| 6 | Arbitrary poloidal gyroradius effects in tokamak pedestals and transport barriers. Plasma Physics and Controlled Fusion, 2008, 50, 085010. | 2.1 | 32 |
| 7 | Drift kinetic equation exact through second order in gyroradius expansion. Physics of Plasmas, 2005, 12, 012105. | 1.9 | 28 |
| 8 | Neoclassical ion heat flux and poloidal flow in a tokamak pedestal. Plasma Physics and Controlled Fusion, 2010, 52, 055004. | 2.1 | 27 |
| 9 | A quasilinear description for fast α -wave minority heating permitting off-axis heating in a tokamak. Physics of Fluids B, 1992, 4, 187-199. | 1.7 | 24 |
| 10 | Neoclassical plateau regime transport in a tokamak pedestal. Plasma Physics and Controlled Fusion, 2010, 52, 075016. | 2.1 | 19 |
| 11 | A quasilinear operator retaining magnetic drift effects in tokamak geometry. Journal of Plasma Physics, 2017, 83, . | 2.1 | 10 |
| 12 | Collisional effects on resonant particles in quasilinear theory. Journal of Plasma Physics, 2020, 86, . | 2.1 | 10 |
| 13 | Ripple modifications to alpha transport in tokamaks. Journal of Plasma Physics, 2018, 84, . | 2.1 | 8 |
| 14 | Variational calculation of neoclassical ion heat flux and poloidal flow in the banana regime for axisymmetric magnetic geometry. Plasma Physics and Controlled Fusion, 2012, 54, 085011. | 2.1 | 6 |
| 15 | Drift kinetic theory of alpha transport by tokamak perturbations. Journal of Plasma Physics, 2021, 87, . | 2.1 | 6 |
| 16 | Effect of the inductive electric field on ion flow in tokamaks. Physics of Plasmas, 2001, 8, 3334-3341. | 1.9 | 4 |
| 17 | Collisional alpha transport in a weakly rippled magnetic field. Journal of Plasma Physics, 2019, 85, . | 2.1 | 4 |
| 18 | Reimagining full wave rf quasilinear theory in a tokamak. Journal of Plasma Physics, 2021, 87, . | 2.1 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Lower hybrid current drive in a tokamak for correlated passes through resonance. Journal of Plasma Physics, 2021, 87, . | 2.1 | 4 |
| 20 | Collisional broadening of nonlinear resonant wave-particle interactions. Journal of Plasma Physics, 2021, 87, . | 2.1 | 3 |
| 21 | Collisional alpha transport in a weakly non-quasisymmetric stellarator magnetic field. Journal of Plasma Physics, 2019, 85, . | 2.1 | 2 |
| 22 | Bootstrap current and parallel ion velocity in imperfectly optimized stellarators. Journal of Plasma Physics, 2020, 86, . | 2.1 | 2 |
| 23 | Symmetric spectrum current drive due to finite radial drift effects. Journal of Plasma Physics, 2018, 84, . | 2.1 | 1 |
| 24 | Collisional alpha transport in a weakly non-quasisymmetric stellarator magnetic field - CORRIGENDUM. Journal of Plasma Physics, 2019, 85, . | 2.1 | 0 |
| 25 | Electromagnetic zonal flow residual responses - Corrigendum. Journal of Plasma Physics, 2020, 86, . | 2.1 | 0 |
| 26 | Bootstrap current and parallel ion velocity in imperfectly optimized stellarators Corrigendum. Journal of Plasma Physics, 2020, 86, . | 2.1 | 0 |