

Alessandro Zocco

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Confinement in electron heated plasmas in Wendelstein 7-X and ASDEX Upgrade; the necessity to control turbulent transport. Nuclear Fusion, 2022, 62, 016015. | 3.5 | 7 |
| 2 | Turbulent impurity transport simulations in Wendelstein 7-X plasmas. Journal of Plasma Physics, 2021, 87, . | 2.1 | 16 |
| 3 | Gyrokinetic investigation of Alfvén instabilities in the presence of turbulence. Plasma Physics and Controlled Fusion, 2021, 63, 065009. | 2.1 | 20 |
| 4 | Testing of the new JOEUK stellarator-capable model in the tokamak limit. Journal of Plasma Physics, 2021, 87, . | 2.1 | 5 |
| 5 | W7-X and the sawtooth instability: towards realistic simulations of current-driven magnetic reconnection. Nuclear Fusion, 2021, 61, 086001. | 3.5 | 5 |
| 6 | Ion temperature clamping in Wendelstein 7-X electron cyclotron heated plasmas. Nuclear Fusion, 2021, 61, 116072. | 3.5 | 27 |
| 7 | Confinement degradation and plasma loss induced by strong sawtooth crashes at W7-X. Nuclear Fusion, 2021, 61, 116053. | 3.5 | 3 |
| 8 | Magnetic reconnection in 3D fusion devices: non-linear reduced equations and linear current-driven instabilities. Plasma Physics and Controlled Fusion, 2021, 63, 025001. | 2.1 | 6 |
| 9 | Geometric stabilization of the electrostatic ion-temperature-gradient driven instability. II. Non-axisymmetric systems. Physics of Plasmas, 2020, 27, . | 1.9 | 4 |
| 10 | ECCD-induced sawtooth crashes at W7-X. Nuclear Fusion, 2020, 60, 106021. | 3.5 | 14 |
| 11 | Overview of first Wendelstein 7-X high-performance operation. Nuclear Fusion, 2019, 59, 112004. | 3.5 | 165 |
| 12 | Resonant interaction of energetic ions with bulk-ion plasma micro-turbulence. Physics of Plasmas, 2019, 26, 052504. | 1.9 | 20 |
| 13 | Ion Landau damping and drift tearing modes. Journal of Plasma Physics, 2019, 85, . | 2.1 | 5 |
| 14 | A three-dimensional reduced MHD model consistent with full MHD. Physics of Plasmas, 2019, 26, . | 1.9 | 12 |
| 15 | Kinetic infernal modes for Wendelstein 7-X-like -profiles. Journal of Plasma Physics, 2019, 85, . | 2.1 | 7 |
| 16 | Gyrokinetic stability of electron-positron-ion plasmas. Journal of Plasma Physics, 2018, 84, . | 2.1 | 10 |
| 17 | Threshold for the destabilisation of the ion-temperature-gradient mode in magnetically confined toroidal plasmas. Journal of Plasma Physics, 2018, 84, . | 2.1 | 20 |
| 18 | Kinetic ballooning modes in tokamaks and Stellarators. Journal of Plasma Physics, 2018, 84, . | 2.1 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Magnetic configuration effects on the Wendelstein 7-X stellarator. <i>Nature Physics</i> , 2018, 14, 855-860. | 16.7 | 110 |
| 20 | Quasilinear particle transport from gyrokinetic instabilities in general magnetic geometry. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 084006. | 2.1 | 14 |
| 21 | Strongly driven surface-global kinetic ballooning modes in general toroidal geometry. <i>Journal of Plasma Physics</i> , 2018, 84, . | 2.1 | 4 |
| 22 | Quantitative study of kinetic ballooning mode theory in simple geometry. <i>Physics of Plasmas</i> , 2017, 24, 092106. | 1.9 | 20 |
| 23 | Slab magnetised non-relativistic low-beta electron-positron plasmas: collisionless heating, linear waves and reconnecting instabilities. <i>Journal of Plasma Physics</i> , 2017, 83, . | 2.1 | 11 |
| 24 | Geometric stabilization of the electrostatic ion-temperature-gradient driven instability. I. Nearly axisymmetric systems. <i>Physics of Plasmas</i> , 2016, 23, 082516. | 1.9 | 6 |
| 25 | Viriato : A Fourier-Hermite spectral code for strongly magnetized fluid-kinetic plasma dynamics. <i>Computer Physics Communications</i> , 2016, 206, 45-63. | 7.5 | 35 |
| 26 | Intrinsic Turbulence Stabilization in a Stellarator. <i>Physical Review X</i> , 2016, 6, . | 8.9 | 22 |
| 27 | Linear collisionless Landau damping in Hilbert space. <i>Journal of Plasma Physics</i> , 2015, 81, . | 2.1 | 5 |
| 28 | Kinetic microtearing modes and reconnecting modes in strongly magnetised slab plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 065008. | 2.1 | 32 |
| 29 | Global linear gyrokinetic particle-in-cell simulations including electromagnetic effects in shaped plasmas. <i>Nuclear Fusion</i> , 2015, 55, 053006. | 3.5 | 13 |
| 30 | Magnetic compressibility and ion-temperature-gradient-driven microinstabilities in magnetically confined plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 085003. | 2.1 | 15 |
| 31 | The stochastic field transport associated with the slab ITG modes. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 125003. | 2.1 | 9 |
| 32 | Improved criterion for sawtooth trigger and modelling. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 074005. | 2.1 | 3 |
| 33 | Fast Collisionless Reconnection and Electron Heating in Strongly Magnetized Plasmas. <i>Physical Review Letters</i> , 2013, 111, 025002. | 7.8 | 69 |
| 34 | Unified theory of the semi-collisional tearing mode and internal kink mode in a hot tokamak: implications for sawtooth modelling. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 035003. | 2.1 | 22 |
| 35 | Global gyrokinetic particle-in-cell simulations of internal kink instabilities. <i>Physics of Plasmas</i> , 2012, 19, 122104. | 1.9 | 20 |
| 36 | Reduced fluid-kinetic equations for low-frequency dynamics, magnetic reconnection, and electron heating in low-beta plasmas. <i>Physics of Plasmas</i> , 2011, 18, . | 1.9 | 99 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Fast ion stabilization of the ion temperature gradient driven modes in the Joint European Torus hybrid-scenario plasmas: a trigger mechanism for internal transport barrier formation. Plasma Physics and Controlled Fusion, 2010, 52, 045007. | 2.1 | 46 |
| 38 | Magnetic Reconnection Triggering Magnetohydrodynamic Instabilities during a Sawtooth Crash in a Tokamak Plasma. Physical Review Letters, 2010, 105, 255002. | 7.8 | 46 |
| 39 | Fundamental role of ion viscosity on fast magnetic reconnection in large-guide-field regimes. Physics of Plasmas, 2010, 17, . | 1.9 | 10 |
| 40 | Current sheet bifurcation and collapse in electron magnetohydrodynamics. Physics of Plasmas, 2009, 16, 110703. | 1.9 | 17 |
| 41 | Electron inertia effects in 2D driven reconnection in electron MHD. , 2008, , . | | 3 |
| 42 | Fast Reconnection in Nonrelativistic 2D Electron-Positron Plasmas. Physical Review Letters, 2008, 101, 025003. | 7.8 | 22 |
| 43 | Steady-State Properties of Driven Magnetic Reconnection in 2D Electron Magnetohydrodynamics. Physical Review Letters, 2007, 99, 235001. | 7.8 | 58 |