

Matteo Valerio Falessi

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

201
citations

1040056

9
h-index

1058476

14
g-index

18
all docs

18
docs citations

18
times ranked

164
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Transport theory of phase space zonal structures. <i>Physics of Plasmas</i> , 2019, 26, . | 1.9 | 29 |
| 2 | Lagrangian coherent structures and plasma transport processes. <i>Journal of Plasma Physics</i> , 2015, 81, . | 2.1 | 23 |
| 3 | Nonlinear physics and energetic particle transport features of the beamâ€ plasma instability. <i>Journal of Plasma Physics</i> , 2015, 81, . | 2.1 | 19 |
| 4 | Shear AlfvÃ©n and acoustic continuum in general axisymmetric toroidal geometry. <i>Physics of Plasmas</i> , 2019, 26, 082502. | 1.9 | 16 |
| 5 | Nonlinear radial envelope evolution equations and energetic particle transport in tokamak plasmas. <i>Journal of Physics: Conference Series</i> , 2021, 1785, 012005. | 0.4 | 16 |
| 6 | Coherent magnetic structures in self-organized plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 044003. | 2.1 | 15 |
| 7 | Coherent transport structures in magnetized plasmas. I. Theory. <i>Physics of Plasmas</i> , 2018, 25, . | 1.9 | 12 |
| 8 | On the polarization of shear AlfvÃ©n and acoustic continuous spectra in toroidal plasmas. <i>Journal of Plasma Physics</i> , 2020, 86, . | 2.1 | 12 |
| 9 | Mixed Diffusive-Convective Relaxation of a Warm Beam of Energetic Particles in Cold Plasma. <i>Entropy</i> , 2016, 18, 143. | 2.2 | 10 |
| 10 | Coherent transport structures in magnetized plasmas. II. Numerical results. <i>Physics of Plasmas</i> , 2018, 25, . | 1.9 | 9 |
| 11 | A linear benchmark between HYMAGYC, MEGA and ORB5 codes using the NLED-AUG test case to study AlfvÃ©nic modes driven by energetic particles. <i>Nuclear Fusion</i> , 0, , . | 3.5 | 9 |
| 12 | Gyrokinetic theory for particle and energy transport in fusion plasmas. <i>Physics of Plasmas</i> , 2018, 25, 032306. | 1.9 | 7 |
| 13 | Collisionless losses of fast ions in the Divertor Tokamak Test due to toroidal field ripple. <i>Nuclear Fusion</i> , 0, , . | 3.5 | 6 |
| 14 | Beta-induced AlfvÃ©n eigenmodes and geodesic acoustic modes in the presence of strong tearing activity during the current ramp-down on JET. <i>Plasma Physics and Controlled Fusion</i> , 2022, 64, 045023. | 2.1 | 5 |
| 15 | Analysis of the nonlinear dynamics of a chirping-frequency AlfvÃ©n mode in a tokamak equilibrium. <i>Physics of Plasmas</i> , 2022, 29, . | 1.9 | 5 |
| 16 | Lagrangian Coherent Structures as a new frame to investigate the particle transport in highly chaotic magnetic systems. <i>Journal of Physics: Conference Series</i> , 2018, 1125, 012008. | 0.4 | 3 |
| 17 | Resonance overlap and nonlinear features of the beamâ€ plasma system. <i>Journal of Plasma Physics</i> , 2020, 86, . | 2.1 | 3 |
| 18 | Evidence of â€two plasmonâ€™ decay of energetic particle induced geodesic acoustic mode. <i>New Journal of Physics</i> , 2021, 23, 063045. | 2.9 | 2 |