

Darren T Garnier

List of Publications by Year in descending order

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papers

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1040056

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642732

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28
all docs

28
docs citations

28
times ranked

457
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Overview of the SPARC tokamak. <i>Journal of Plasma Physics</i> , 2020, 86, . | 2.1 | 181 |
| 2 | Turbulent inward pinch of plasma confined by a levitated dipole magnet. <i>Nature Physics</i> , 2010, 6, 207-212. | 16.7 | 93 |
| 3 | Magnetohydrodynamic stability in a levitated dipole. <i>Physics of Plasmas</i> , 1999, 6, 3431-3434. | 1.9 | 60 |
| 4 | Production and study of high-beta plasma confined by a superconducting dipole magnet. <i>Physics of Plasmas</i> , 2006, 13, 056111. | 1.9 | 55 |
| 5 | Overview of the SPARC physics basis towards the exploration of burning-plasma regimes in high-field, compact tokamaks. <i>Nuclear Fusion</i> , 2022, 62, 042003. | 3.5 | 37 |
| 6 | H-modes on Alcator C-Mod. <i>Plasma Physics and Controlled Fusion</i> , 1996, 38, 1127-1136. | 2.1 | 32 |
| 7 | MHD stability and disruptions in the SPARC tokamak. <i>Journal of Plasma Physics</i> , 2020, 86, . | 2.1 | 31 |
| 8 | Modeling the complete prevention of disruption-generated runaway electron beam formation with a passive 3D coil in SPARC. <i>Nuclear Fusion</i> , 2021, 61, 124003. | 3.5 | 17 |
| 9 | Turbulent fluctuations during pellet injection into a dipole confined plasma torus. <i>Physics of Plasmas</i> , 2017, 24, . | 1.9 | 13 |
| 10 | Stabilization of a low-frequency instability in a dipole plasma. <i>Journal of Plasma Physics</i> , 2008, 74, 733-740. | 2.1 | 8 |
| 11 | Multichannel microwave interferometer for the levitated dipole experiment. <i>Review of Scientific Instruments</i> , 2009, 80, 043502. | 1.3 | 8 |
| 12 | Fluctuation driven transport and stationary profiles. <i>Physics of Plasmas</i> , 2011, 18, 050703. | 1.9 | 8 |
| 13 | Convective cell formation in a levitated dipole. <i>Physics of Plasmas</i> , 2000, 7, 2733-2737. | 1.9 | 7 |
| 14 | Effects of the Hot Electron Interchange Instability on Plasma Confined in a Dipolar Magnetic Field. <i>Journal of Fusion Energy</i> , 2007, 26, 139-144. | 1.2 | 7 |
| 15 | Stationary density profiles in the Levitated Dipole Experiment: toward fusion without tritium fuel. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 124036. | 2.1 | 7 |
| 16 | Pressure profiles of plasmas confined in the field of a magnetic dipole. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 095021. | 2.1 | 7 |
| 17 | Density Profiles in the Levitated Dipole Experiment. <i>Journal of Fusion Energy</i> , 2008, 27, 11-15. | 1.2 | 5 |
| 18 | Observations and modeling of the electron cyclotron emission background in the Levitated Dipole Experiment. <i>Journal of Physics: Conference Series</i> , 2010, 227, 012021. | 0.4 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Equilibrium Reconstruction of Anisotropic Pressure Profile in the Levitated Dipole Experiment. Journal of Fusion Energy, 2007, 26, 99-102. | 1.2 | 2 |
| 20 | Varying Electron Cyclotron Resonance Heating on the Levitated Dipole Experiment. Journal of Fusion Energy, 2007, 26, 57-60. | 1.2 | 2 |
| 21 | Initial Results of Multi-Frequency Electron Cyclotron Heating in the Levitated Dipole Experiment. AIP Conference Proceedings, 2005, , . | 0.4 | 1 |
| 22 | Thermal Performance of the LDX Floating Coil. AIP Conference Proceedings, 2006, , . | 0.4 | 1 |
| 23 | Millimeter-wave radiometer diagnostics of harmonic electron cyclotron emission in the Levitated Dipole Experiment. Review of Scientific Instruments, 2010, 81, 10D910. | 1.3 | 1 |
| 24 | ECRH in the Levitated Dipole Experiment. , 1999, , . | | 0 |
| 25 | Quench Detection for the Levitated Dipole Experiment (LDX) Charging Coil. IEEE Transactions on Applied Superconductivity, 2007, 17, 2482-2485. | 1.7 | 0 |
| 26 | 137 and 165 GHZ radiometer measurements of hot electrons in LDX. , 2009, , . | | 0 |
| 27 | 28ÂGHz Gyrotron ECRH on LDX. Journal of Fusion Energy, 2010, 29, 588-591. | 1.2 | 0 |
| 28 | Multiple source 2.45 to 28 GHz electron cyclotron heating on the levitated dipole experiment. , 2010, , . | | 0 |