

Darren Craig

List of Publications by Year in descending order

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36
papers

656
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567281

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552781

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36
times ranked

409
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Direct measurements of the 3D plasma velocity in single-helical-axis RFP plasmas. <i>Physics of Plasmas</i> , 2021, 28, 012510. | 1.9 | 0 |
| 2 | Intrinsic flow and tearing mode rotation in the RFP during improved confinement. <i>Physics of Plasmas</i> , 2019, 26, 072503. | 1.9 | 5 |
| 3 | Role of resistivity and viscosity in the excitation of stable $m=0$ modes during the RFP sawtooth crash. <i>Physics of Plasmas</i> , 2018, 25, 112506. | 1.9 | 5 |
| 4 | Measurements of Impurity Transport Due to Drift-Wave Turbulence in a Toroidal Plasma. <i>Physical Review Letters</i> , 2018, 121, 165002. | 7.8 | 7 |
| 5 | Magnetic and velocity fluctuations from nonlinearly coupled tearing modes in the reversed field pinch with and without the reversal surface. <i>Physics of Plasmas</i> , 2017, 24, . | 1.9 | 3 |
| 6 | Absolute wavelength calibration of a Doppler spectrometer with a custom Fabry-Perot optical system. <i>Review of Scientific Instruments</i> , 2016, 87, 11E509. | 1.3 | 3 |
| 7 | Statistical analysis of variations in impurity ion heating at reconnection events in the Madison Symmetric Torus. <i>Physics of Plasmas</i> , 2014, 21, . | 1.9 | 8 |
| 8 | Overview of results from the MST reversed field pinch experiment. <i>Nuclear Fusion</i> , 2013, 53, 104017. | 3.5 | 33 |
| 9 | Classical confinement and outward convection of impurity ions in the MST RFP. <i>Physics of Plasmas</i> , 2012, 19, . | 1.9 | 12 |
| 10 | Toroidal charge exchange recombination spectroscopy measurements on MST. <i>Review of Scientific Instruments</i> , 2010, 81, 10D716. | 1.3 | 4 |
| 11 | Local measurements of tearing mode flows and the magnetohydrodynamic dynamo in the Madison Symmetric Torus reversed-field pinch. <i>Physics of Plasmas</i> , 2010, 17, . | 1.9 | 11 |
| 12 | Spatially Resolved Measurements of Ion Heating during Impulsive Reconnection in the Madison Symmetric Torus. <i>Physical Review Letters</i> , 2007, 98, 075001. | 7.8 | 23 |
| 13 | High throughput spectrometer for fast localized Doppler measurements. <i>Review of Scientific Instruments</i> , 2007, 78, 013103. | 1.3 | 28 |
| 14 | Modeling fast charge exchange recombination spectroscopy measurements from the Madison Symmetric Torus. <i>Review of Scientific Instruments</i> , 2006, 77, 10F109. | 1.3 | 19 |
| 15 | Soft X-ray pulses in the reversed-field pinch. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 462-463. | 1.3 | 2 |
| 16 | Dynamo-free plasma in the reversed-field pinch: Advances in understanding the reversed-field pinch improved confinement mode. <i>Physics of Plasmas</i> , 2005, 12, 056118. | 1.9 | 20 |
| 17 | Reduced intermittency in the magnetic turbulence of reversed field pinch plasmas. <i>Physics of Plasmas</i> , 2005, 12, 030701. | 1.9 | 14 |
| 18 | Measurements of the MHD Dynamo in the Quasi-Single-Helicity Reversed-Field Pinch. <i>Physical Review Letters</i> , 2004, 93, 235001. | 7.8 | 29 |

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|----|--|-----|-----------|
| 19 | Observation of tearing mode deceleration and locking due to eddy currents induced in a conducting shell. <i>Physics of Plasmas</i> , 2004, 11, 2156-2171. | 1.9 | 37 |
| 20 | Measurement of the Hall Dynamo Effect during Magnetic Reconnection in a High-Temperature Plasma. <i>Physical Review Letters</i> , 2004, 93, 045002. | 7.8 | 56 |
| 21 | Measurement of current profile dynamics in the Madison Symmetric Torus. <i>Physics of Plasmas</i> , 2004, 11, 1079-1086. | 1.9 | 15 |
| 22 | Behavior of Impurity Ion Velocities during the Pulsed Poloidal Current Drive in the Madison Symmetric Torus Reversed-Field Pinch. <i>Japanese Journal of Applied Physics</i> , 2003, 42, L505-L507. | 1.5 | 1 |
| 23 | Tokamak-like confinement at high beta and low field in the reversed field pinch. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, A457-A470. | 2.1 | 27 |
| 24 | Direct removal of edge-localized pollutant emission in a near-infrared bremsstrahlung measurement. <i>Review of Scientific Instruments</i> , 2003, 74, 2107-2110. | 1.3 | 13 |
| 25 | Plasma Velocity Profile During The Pulsed Poloidal Current Drive In The MST RFP Plasma. <i>AIP Conference Proceedings</i> , 2003, , . | 0.4 | 0 |
| 26 | Quasi-single helicity spectra in the Madison Symmetric Torus. <i>Physics of Plasmas</i> , 2002, 9, 2868-2871. | 1.9 | 51 |
| 27 | High confinement plasmas in the Madison Symmetric Torus reversed-field pinch. <i>Physics of Plasmas</i> , 2002, 9, 2061-2068. | 1.9 | 87 |
| 28 | Electron Bernstein wave experiment in an overdense reversed field pinch plasma. <i>AIP Conference Proceedings</i> , 2001, , . | 0.4 | 1 |
| 29 | First charge exchange recombination spectroscopy and motional Stark effect results from the Madison Symmetric Torus reversed field pinch. <i>Review of Scientific Instruments</i> , 2001, 72, 1008-1011. | 1.3 | 32 |
| 30 | Control of magnetic fluctuations in the reversed field pinch with edge current drive. <i>Physics of Plasmas</i> , 2001, 8, 1463-1466. | 1.9 | 2 |
| 31 | Plasma flow in MST: Effects of edge biasing and momentum transport from nonlinear magnetic torques. <i>European Physical Journal D</i> , 2000, 50, 1471-1476. | 0.4 | 5 |
| 32 | Momentum Transport from Nonlinear Mode Coupling of Magnetic Fluctuations. <i>Physical Review Letters</i> , 2000, 85, 3408-3411. | 7.8 | 37 |
| 33 | Momentum transport and flow damping in the reversed-field pinch plasma. <i>Physics of Plasmas</i> , 1998, 5, 3982-3985. | 1.9 | 44 |
| 34 | Fluctuation and transport reduction by current profile control in MST. , 1995, , . | | 0 |
| 35 | Transport reduction by current profile control in the reversed-field pinch. <i>Physics of Plasmas</i> , 1995, 2, 2440-2446. | 1.9 | 22 |
| 36 | Current profile control and fluctuation reduction in MST via electrostatic current injection. , 0, , . | | 0 |