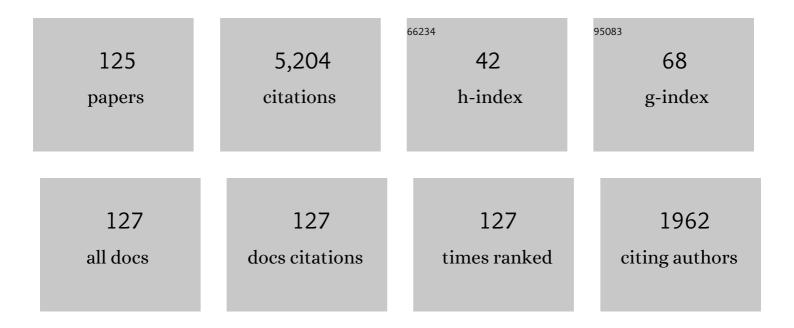
List of Publications by Year in descending order

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C. P. MCKEE

| # | Article | IF | CITATIONS |
|----|---|----------------------------------|-------------|
| 1 | Transport by intermittent convection in the boundary of the DIII-D tokamak. Physics of Plasmas, 2001, 8, 4826-4833. | 0.7 | 322 |
| 2 | Quiescent double barrier high-confinement mode plasmas in the DIII-D tokamak. Physics of Plasmas, 2001, 8, 2153-2162. | 0.7 | 190 |
| 3 | The beam emission spectroscopy diagnostic on the DIII-D tokamak. Review of Scientific Instruments, 1999, 70, 913-916. | 0.6 | 183 |
| 4 | Experimental characterization of coherent, radially-sheared zonal flows in the DIII-D tokamak. Physics of Plasmas, 2003, 10, 1712-1719. | 0.7 | 168 |
| 5 | Quiescent H-mode plasmas in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2002, 44, A253-A263. | 0.9 | 149 |
| 6 | A review of experimental drift turbulence studies. Plasma Physics and Controlled Fusion, 2009, 51, 113001. | 0.9 | 142 |
| 7 | Pedestal Bifurcation and Resonant Field Penetration at the Threshold of Edge-Localized Mode Suppression in the DIII-D Tokamak. Physical Review Letters, 2015, 114, 105002. | 2.9 | 141 |
| 8 | Implementation and application of two synthetic diagnostics for validating simulations of core tokamak turbulence. Physics of Plasmas, 2009, 16, . | 0.7 | 119 |
| 9 | Observation of Coherent Sheared Turbulence Flows in the DIII-D Tokamak. Physical Review Letters, 2002, 89, 265003. | 2.9 | 114 |
| 10 | Edge localized mode control with an edge resonant magnetic perturbation. Physics of Plasmas, 2005, 12, 056119. | 0.7 | 109 |
| 11 | Measurements of core electron temperature and density fluctuations in DIII-D and comparison to nonlinear gyrokinetic simulations. Physics of Plasmas, 2008, 15, . | 0.7 | 102 |
| 12 | Structure and scaling properties of the geodesic acoustic mode. Plasma Physics and Controlled Fusion, 2006, 48, S123-S136. | 0.9 | 98 |
| 13 | Validation in fusion research: Towards guidelines and best practices. Physics of Plasmas, 2008, 15, . | 0.7 | 92 |
| 14 | Observation of the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:mi>L</mml:mi><mml:mtext>â^²</mml:mtext><mml:mi>H</mml:mi>Bifurcation Triggered by a Turbulence-Driven Shear Flow in a Tokamak Plasma. Physical Review Letters, 2014, 112, 125002.</mml:mrow></mml:math> | nl:mrow> <td>nml;math>Co</td> | nml;math>Co |
| 15 | Observation and characterization of radially sheared zonal flows in DIII-D. Plasma Physics and Controlled Fusion, 2003, 45, A477-A485. | 0.9 | 90 |
| 16 | Measurements and modeling of Alfvén eigenmode induced fast ion transport and loss in DIII-D and ASDEX Upgrade. Physics of Plasmas, 2011, 18, . | 0.7 | 90 |
| 17 | Achievement of Reactor-Relevant Performance in Negative Triangularity Shape in the DIII-D Tokamak. Physical Review Letters, 2019, 122, 115001. | 2.9 | 86 |
| 18 | Detection of Zero-Mean-Frequency Zonal Flows in the Core of a High-Temperature Tokamak Plasma. Physical Review Letters, 2006, 97, 125002. | 2.9 | 84 |

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|----|--|-----|-----------|
| 19 | Measurements of the cross-phase angle between density and electron temperature fluctuations and comparison with gyrokinetic simulations. Physics of Plasmas, 2010, 17, 056103. | 0.7 | 77 |
| 20 | Turbulence imaging and applications using beam emission spectroscopy on DIII-D (invited). Review of Scientific Instruments, 2003, 74, 2014-2019. | 0.6 | 76 |
| 21 | Core barrier formation near integer q surfaces in DIII-D. Physics of Plasmas, 2006, 13, 082502. | 0.7 | 73 |
| 22 | Advances in validating gyrokinetic turbulence models against L- and H-mode plasmas. Physics of Plasmas, 2011, 18, 056113. | 0.7 | 69 |
| 23 | Modulation of Core Turbulent Density Fluctuations by Large-Scale Neoclassical Tearing Mode Islands in the DIII-D Tokamak. Physical Review Letters, 2016, 116, 215001. | 2.9 | 69 |
| 24 | SlowLâ^'HTransitions in DIII-D Plasmas. Physical Review Letters, 2002, 88, 255002. | 2.9 | 68 |
| 25 | Edge-localized mode dynamics and transport in the scrape-off layer of the DIII-D tokamak. Physics of Plasmas, 2005, 12, 072516. | 0.7 | 66 |
| 26 | Tempest Simulations of Collisionless Damping of the Geodesic-Acoustic Mode in Edge-Plasma Pedestals. Physical Review Letters, 2008, 100, 215001. | 2.9 | 63 |
| 27 | Impurity-induced turbulence suppression and reduced transport in the DIII-D tokamak. Physics of Plasmas, 2000, 7, 1870-1877. | 0.7 | 60 |
| 28 | Impurity-Induced Suppression of Core Turbulence and Transport in the DIII-D Tokamak. Physical Review Letters, 2000, 84, 1922-1925. | 2.9 | 59 |
| 29 | Experimental evidence of long-range correlations and self-similarity in plasma fluctuations. Physics of Plasmas, 1999, 6, 1885-1892. | 0.7 | 57 |
| 30 | Turbulence velocimetry of density fluctuation imaging data. Review of Scientific Instruments, 2004, 75, 3490-3492. | 0.6 | 56 |
| 31 | Overview of physics results from the conclusive operation of the National Spherical Torus Experiment. Nuclear Fusion, 2013, 53, 104007. | 1.6 | 53 |
| 32 | Confined Alpha Distribution Measurements in a Deuterium-Tritium Tokamak Plasma. Physical Review Letters, 1995, 75, 649-652. | 2.9 | 52 |
| 33 | Large-scale behavior of the tokamak density fluctuations. Physics of Plasmas, 2000, 7, 3691-3698. | 0.7 | 52 |
| 34 | Zonal-flow-driven nonlinear energy transfer in experiment and simulation. Physics of Plasmas, 2007, 14, 056112. | 0.7 | 50 |
| 35 | Understanding and control of transport in Advanced Tokamak regimes in DIII-D. Physics of Plasmas, 2000, 7, 1959-1967. | 0.7 | 49 |
| 36 | Observation of simultaneous internal transport barriers in all four transport channels and correlation with turbulence behaviour in NCS discharges on DIII-D. Plasma Physics and Controlled Fusion, 2000, 42, A237-A246. | 0.9 | 47 |

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| 37 | Enhanced sensitivity beam emission spectroscopy system for nonlinear turbulence measurements. Review of Scientific Instruments, 2004, 75, 3493-3495. | 0.6 | 47 |
| 38 | Multi-field/-scale interactions of turbulence with neoclassical tearing mode magnetic islands in the DIII-D tokamak. Physics of Plasmas, 2017, 24, . | 0.7 | 46 |
| 39 | Overview of NSTX Upgrade initial results and modelling highlights. Nuclear Fusion, 2017, 57, 102006. | 1.6 | 45 |
| 40 | A correlation electron cyclotron emission diagnostic and the importance of multifield fluctuation measurements for testing nonlinear gyrokinetic turbulence simulations. Review of Scientific Instruments, 2008, 79, 103505. | 0.6 | 44 |
| 41 | Wavelet-based time-delay estimation for time-resolved turbulent flow analysis. Review of Scientific Instruments, 2001, 72, 996-999. | 0.6 | 43 |
| 42 | Observation of a Critical Gradient Threshold for Electron Temperature Fluctuations in the DIII-D Tokamak. Physical Review Letters, 2013, 110, 045003. | 2.9 | 43 |
| 43 | Validation of the model for ELM suppression with 3D magnetic fields using low torque ITER baseline scenario discharges in DIII-D. Physics of Plasmas, 2017, 24, . | 0.7 | 43 |
| 44 | Optimizing stability, transport, and divertor operation through plasma shaping for steady-state scenario development in DIII-D. Physics of Plasmas, 2009, 16, . | 0.7 | 42 |
| 45 | Multi-field characteristics and eigenmode spatial structure of geodesic acoustic modes in DIII-D L-mode plasmas. Physics of Plasmas, 2013, 20, . | 0.7 | 42 |
| 46 | Confinement improvement in the high poloidal beta regime on DIII-D and application to steady-state H-mode on EAST. Physics of Plasmas, 2017, 24, . | 0.7 | 41 |
| 47 | 2D properties of core turbulence on DIII-D and comparison to gyrokinetic simulations. Physics of Plasmas, 2012, 19, . | 0.7 | 40 |
| 48 | Pedestal density fluctuation dynamics during the inter-ELM cycle in DIII-D. Physics of Plasmas, 2011, 18, 056117. | 0.7 | 38 |
| 49 | H-mode grade confinement in L-mode edge plasmas at negative triangularity on DIII-D. Physics of Plasmas, 2019, 26, . | 0.7 | 38 |
| 50 | Evidence for the role of velocity shear on the L-H transition in DIII-D. Plasma Physics and Controlled Fusion, 2002, 44, A333-A339. | 0.9 | 36 |
| 51 | Chapter 6: Active Spectroscopy. Fusion Science and Technology, 2008, 53, 487-527. | 0.6 | 36 |
| 52 | The quiescent double barrier regime in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2001, 43, A95-A112. | 0.9 | 35 |
| 53 | Spatial transfer function for the beam emission spectroscopy diagnostic on DIII-D. Review of Scientific Instruments, 2006, 77, 10F110. | 0.6 | 35 |
| 54 | Wide-field turbulence imaging with beam emission spectroscopy. Review of Scientific Instruments, 2010, 81, 10D741. | 0.6 | 35 |

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| 55 | Changes in particle transport as a result of resonant magnetic perturbations in DIII-D. Physics of Plasmas, 2012, 19, . | 0.7 | 35 |
| 56 | Energetic ion transport by microturbulence is insignificant in tokamaks. Physics of Plasmas, 2013, 20, 056108. | 0.7 | 35 |
| 57 | Dynamics of pedestal perturbations by ELMs and edge harmonic oscillations in DIII-D. Plasma Physics and Controlled Fusion, 2004, 46, A121-A129. | 0.9 | 33 |
| 58 | Investigation of the time-delay estimation method for turbulent velocity inference. Review of Scientific Instruments, 2004, 75, 4278-4280. | 0.6 | 33 |
| 59 | Progress toward steady-state tokamak operation exploiting the high bootstrap current fraction regime. Physics of Plasmas, 2016, 23, . | 0.7 | 33 |
| 60 | Direct Observation of Nonlinear Coupling between Pedestal Modes Leading to the Onset of Edge Localized Modes. Physical Review Letters, 2018, 121, 235001. | 2.9 | 28 |
| 61 | Effects of plasma turbulence on the nonlinear evolution of magnetic island in tokamak. Nature Communications, 2021, 12, 375. | 5.8 | 27 |
| 62 | Localized Turbulence Suppression and Increased Flow Shear near theq=2Surface during Internal-Transport-Barrier Formation. Physical Review Letters, 2009, 103, 075004. | 2.9 | 26 |
| 63 | Overview of the beam emission spectroscopy diagnostic system on the National Spherical Torus Experiment. Review of Scientific Instruments, 2010, 81, 10D717. | 0.6 | 26 |
| 64 | Simultaneous measurement of core electron temperature and density fluctuations during electron cyclotron heating on DIII-D. Physics of Plasmas, 2010, 17, . | 0.7 | 26 |
| 65 | Formation of a High Pressure Staircase Pedestal with Suppressed Edge Localized Modes in the DIII-D Tokamak. Physical Review Letters, 2019, 123, 115001. | 2.9 | 24 |
| 66 | Effect of ion â^‡B drift direction on density fluctuation poloidal flow and flow shear. Physics of Plasmas, 2005, 12, 062307. | 0.7 | 22 |
| 67 | Impact of neoclassical tearing mode–turbulence multi-scale interaction in global confinement degradation and magnetic island stability. Physics of Plasmas, 2017, 24, . | 0.7 | 22 |
| 68 | Initial beam emission spectroscopy diagnostic system on HL-2A tokamak. Review of Scientific Instruments, 2018, 89, 10D122. | 0.6 | 22 |
| 69 | Main-ion intrinsic toroidal rotation across the ITG/TEM boundary in DIII-D discharges during ohmic and electron cyclotron heating. Physics of Plasmas, 2019, 26, 042304. | 0.7 | 22 |
| 70 | Dependence of the impurity transport on the dominant turbulent regime in ELM-y H-mode discharges on the DIII-D tokamak. Physics of Plasmas, 2020, 27, . | 0.7 | 22 |
| 71 | High sensitivity beam emission spectroscopy for core plasma turbulence imaging (invited). Review of Scientific Instruments, 2006, 77, 10F104. | 0.6 | 21 |
| 72 | Experimental characterization of multiscale and multifield turbulence as a critical gradient threshold is surpassed in the DIII-D tokamak. Physics of Plasmas, 2013, 20, . | 0.7 | 21 |

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| 73 | Evidence of Toroidally Localized Turbulence with Applied 3D Fields in the DIII-D Tokamak. Physical Review Letters, 2016, 117, 135001. | 2.9 | 21 |
| 74 | Progress in extending high poloidal beta scenarios on DIII-D towards a steady-state fusion reactor and impact of energetic particles. Nuclear Fusion, 2020, 60, 126007. | 1.6 | 21 |
| 75 | Shrinking of core neoclassical tearing mode magnetic islands due to edge localized modes and the role of ion-scale turbulence in island recovery in DIII-D. Physics of Plasmas, 2017, 24, . | 0.7 | 20 |
| 76 | Transport measurements for confined non-thermal alpha particles in TFTR DT plasmas. Nuclear Fusion, 1997, 37, 501-516. | 1.6 | 19 |
| 77 | Application of wavelet spectral analysis to plasma fluctuation measurements using beam emission spectroscopy. Review of Scientific Instruments, 1999, 70, 874-877. | 0.6 | 19 |
| 78 | Increased electron temperature turbulence during suppression of edge localized mode by resonant magnetic perturbations in the DIII-D tokamak. Physics of Plasmas, 2017, 24, . | 0.7 | 19 |
| 79 | Multi-scale transport in the DIII-D ITER baseline scenario with direct electron heating and projection to ITER. Physics of Plasmas, 2018, 25, . | 0.7 | 18 |
| 80 | Effect of magnetic perturbations on turbulence-flow dynamics at the L-H transition on DIII-D. Physics of Plasmas, 2020, 27, 062507. | 0.7 | 18 |
| 81 | Simulations of drift resistive ballooning L-mode turbulence in the edge plasma of the DIII-D tokamak. Physics of Plasmas, 2013, 20, . | 0.7 | 17 |
| 82 | Characterization and parametric dependencies of low wavenumber pedestal turbulence in the National Spherical Torus Experiment. Physics of Plasmas, 2013, 20, . | 0.7 | 17 |
| 83 | Dynamic neutral beam current and voltage control to improve beam efficacy in tokamaks. Physics of Plasmas, 2018, 25, . | 0.7 | 17 |
| 84 | Alfvén wave experiments in the Phaedrusâ€T tokamak*. Physics of Fluids B, 1993, 5, 2506-2512. | 1.7 | 16 |
| 85 | Scenario development for highβplow torque plasma withqminabove 2 and large-radius internal transport barrier in DIII-D. Nuclear Fusion, 2017, 57, 022016. | 1.6 | 15 |
| 86 | Ultra-fast charge exchange spectroscopy for turbulent ion temperature fluctuation measurements on the DIII-D tokamak (invited). Review of Scientific Instruments, 2012, 83, 10D526. | 0.6 | 14 |
| 87 | Advances in physics understanding of high poloidal beta regime toward steady-state operation of CFETR. Physics of Plasmas, 2021, 28, . | 0.7 | 14 |
| 88 | Low-noise, high-speed detector development for optical turbulence fluctuation measurements for NSTX. Review of Scientific Instruments, 2010, 81, 10D718. | 0.6 | 13 |
| 89 | Diagnostic performance of the beam emission spectroscopy system on the National Spherical Torus Experiment. Review of Scientific Instruments, 2012, 83, 10D502. | 0.6 | 13 |
| 90 | Measurements and simulations of low-wavenumber pedestal turbulence in the National Spherical Torus Experiment. Nuclear Fusion, 2013, 53, 113029. | 1.6 | 13 |

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| 91 | Changes in density fluctuations as a result of resonant magnetic perturbations correlate with the density inverse scale length. Physics of Plasmas, 2012, 19, 024504. | 0.7 | 11 |
| 92 | Gyrokinetic GENE simulations of DIII-D near-edge L-mode plasmas. Physics of Plasmas, 2019, 26, . | 0.7 | 11 |
| 93 | Regulation of Alfvén Eigenmodes by Microturbulence in Fusion Plasmas. Physical Review Letters, 2022, 128, 185001. | 2.9 | 11 |
| 94 | Implementation of the α HERS diagnostic for D–T operation of TFTR. Review of Scientific Instruments, 1995, 66, 643-645. | 0.6 | 9 |
| 95 | DIII-D Diagnostic Systems. Fusion Science and Technology, 2005, 48, 834-851. | 0.6 | 9 |
| 96 | Comparison of resonant magnetic perturbation-induced particle transport changes in H-mode (DIII-D) and L-mode (MAST). Plasma Physics and Controlled Fusion, 2011, 53, 122001. | 0.9 | 9 |
| 97 | Excitation of Geodesic Acoustic Modes by External Fields. Physical Review Letters, 2012, 109, 245001. | 2.9 | 9 |
| 98 | Observation of fully detached divertor integrated with improved core confinement for tokamak fusion plasmas. Physics of Plasmas, 2021, 28, . | 0.7 | 9 |
| 99 | Ion thermal transport in the H-mode edge transport barrier on DIII-D. Physics of Plasmas, 2022, 29, . | 0.7 | 9 |
| 100 | Ultrafast ion temperature and toroidal velocity fluctuation spectroscopy diagnostic design. Review of Scientific Instruments, 2008, 79, 10F528. | 0.6 | 8 |
| 101 | Multi-field/multi-scale turbulence response to electron cyclotron heating of DIII-D ohmic plasmas. Physics of Plasmas, 2011, 18, 082504. | 0.7 | 8 |
| 102 | Extracting the turbulent flow-field from beam emission spectroscopy images using velocimetry. Review of Scientific Instruments, 2018, 89, 10E107. | 0.6 | 8 |
| 103 | Evidence of <i>E</i> â€^ × â€^ <i>B</i> staircase in HL-2A L-mode tokamak discharges. Physics of Plasmas 2021, 28, . | ' 0.7 | 8 |
| 104 | Alpha HERS: A spectroscopic experiment to detect nonthermal alpha particles on TFTR. Review of Scientific Instruments, 1992, 63, 5179-5181. | 0.6 | 7 |
| 105 | Spectrometer system and detector tests for the TFTR alphaâ€CHERS experiment. Review of Scientific Instruments, 1992, 63, 5182-5184. | 0.6 | 7 |
| 106 | A Lyman-alpha-based (VUV) plasma density fluctuation diagnostic design. Review of Scientific Instruments, 2001, 72, 992-995. | 0.6 | 7 |
| 107 | Initial results of high resolution L–H transition studies on DIII-D. Plasma Physics and Controlled Fusion, 2004, 46, A363-A371. | 0.9 | 7 |
| 108 | Velocity fluctuation analysis via dynamic programming. Review of Scientific Instruments, 2006, 77, 10F518. | 0.6 | 7 |

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| 109 | â€~Beam-emission spectroscopy' diagnostics also measure edge fast-ion light. Plasma Physics and Controlled Fusion, 2011, 53, 085007. | 0.9 | 7 |
| 110 | Ultrafast spectroscopy diagnostic to measure localized ion temperature and toroidal velocity fluctuations. Review of Scientific Instruments, 2010, 81, 10D714. | 0.6 | 6 |
| 111 | Helical variation of density profiles and fluctuations in the tokamak pedestal with applied 3D fields and implications for confinement. Physics of Plasmas, 2018, 25, . | 0.7 | 6 |
| 112 | Spectroscopic observation of 0-300 keV3He ions produced by ICRF heating in TFTR. Nuclear Fusion, 1994, 34, 734-739. | 1.6 | 5 |
| 113 | Evolution of E × B shear and coherent fluctuations prior to H-L transitions in DIII-D and control strategies for H-L transitions. Physics of Plasmas, 2015, 22, . | 0.7 | 5 |
| 114 | Experimental characterization of the effect of <i>E</i> × <i>B</i> shear on edge-harmonic oscillation mode structure. Plasma Physics and Controlled Fusion, 2019, 61, 085003. | 0.9 | 5 |
| 115 | Relating the L–H power threshold scaling to edge turbulence dynamics. Nuclear Fusion, 2013, 53, 113038. | 1.6 | 4 |
| 116 | Optimization and application of cooled avalanche photodiodes for spectroscopic fluctuation measurements with ultra-fast charge exchange recombination spectroscopy. Review of Scientific Instruments, 2016, 87, 11E551. | 0.6 | 4 |
| 117 | Spatial heterodyne spectroscopy for high speed measurements of Stark split neutral beam emission in a high temperature plasma. Review of Scientific Instruments, 2018, 89, 10D114. | 0.6 | 4 |
| 118 | Comparison of Experimental Fluctuation and Turbulence Measurements with Theory and Simulation at DIII-D. Fusion Science and Technology, 2005, 48, 1042-1050. | 0.6 | 3 |
| 119 | Dependence of the low to high confinement mode transition power threshold and turbulence flow shear on injected torque. Physics of Plasmas, 2009, 16, . | 0.7 | 3 |
| 120 | Safety factor and turbulence dynamics dependence of the L-H power threshold on DIII-D. Physics of Plasmas, 2019, 26, 062507. | 0.7 | 3 |
| 121 | Doppler-shift compensated spatial heterodyne spectroscopy for rapidly moving sources. Applied Optics, 2021, 60, 4885. | 0.9 | 3 |
| 122 | Singular value decomposition filtering for enhanced signal extraction from two-dimensional beam emission spectroscopy measurements. Review of Scientific Instruments, 2008, 79, 10F534. | 0.6 | 2 |
| 123 | lon temperature and rotation fluctuation measurements with ultra-fast charge exchange recombination spectroscopy (UF-CHERS) in the DIII-D tokamak. Review of Scientific Instruments, 2021, 92, 053513. | 0.6 | 1 |
| 124 | Evolution patterns and parameter regimes in edge localized modes on the National Spherical Torus Experiment. Plasma Physics and Controlled Fusion, 2016, 58, 045003. | 0.9 | 1 |
| 125 | Physics of increased edge electron temperature and density turbulence during ELM-free QH-mode operation on DIII-D. Physics of Plasmas, 2018, 25, 055904. | 0.7 | 0 |