# Jonathan C Mckinney

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 54 papers | 8,295 citations | 71102 41 h-index | 175258 52 g-index |
| 54 all docs | 54 docs citations | 54 times ranked | 3594 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Efficient generation of jets from magnetically arrested accretion on a rapidly spinning black hole. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 418, L79-L83. | 3.3 | 771 |
| 2 | General relativistic magnetohydrodynamic simulations of magnetically choked accretion flows around black holes. Monthly Notices of the Royal Astronomical Society, 2012, 423, 3083-3117. | 4.4 | 666 |
| 3 | HARM: A Numerical Scheme for General Relativistic Magnetohydrodynamics. Astrophysical Journal, 2003, 589, 444-457. | 4.5 | 569 |
| 4 | A Measurement of the Electromagnetic Luminosity of a Kerr Black Hole. Astrophysical Journal, 2004, 611, 977-995. | 4.5 | 470 |
| 5 | BLACK HOLE SPIN AND THE RADIO LOUD/QUIET DICHOTOMY OF ACTIVE GALACTIC NUCLEI. Astrophysical Journal, 2010, 711, 50-63. | 4.5 | 396 |
| 6 | Stability of relativistic jets from rotating, accreting black holes via fully three-dimensional magnetohydrodynamic simulations. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 394, L126-L130. | 3.3 | 331 |
| 7 | Black Hole Spin Evolution. Astrophysical Journal, 2004, 602, 312-319. | 4.5 | 255 |
| 8 | Simulations of magnetized discs around black holes: effects of black hole spin, disc thickness and magnetic field geometry. Monthly Notices of the Royal Astronomical Society, 2010, 408, 752-782. | 4.4 | 242 |
| 9 | Three-dimensional general relativistic radiation magnetohydrodynamical simulation of super-Eddington accretion, using a new code harmrad with M1 closure. Monthly Notices of the Royal Astronomical Society, 2014, 441, 3177-3208. | 4.4 | 228 |
| 10 | Numerical simulations of super-critical black hole accretion flows in general relativity. Monthly Notices of the Royal Astronomical Society, 2014, 439, 503-520. | 4.4 | 228 |
| 11 | Primitive Variable Solvers for Conservative General Relativistic Magnetohydrodynamics. Astrophysical Journal, 2006, 641, 626-637. | 4.5 | 218 |
| 12 | Total and Jet Blandford-Znajek Power in the Presence of an Accretion Disk. Astrophysical Journal, 2005, 630, L5-L8. | 4.5 | 213 |
| 13 | Simulations of ultrarelativistic magnetodynamic jets from gamma-ray burst engines. Monthly Notices of the Royal Astronomical Society, 2008, 388, 551-572. | 4.4 | 210 |
| 14 | A Unified Model for Tidal Disruption Events. Astrophysical Journal Letters, 2018, 859, L20. | 8.3 | 200 |
| 15 | A reconnection switch to trigger gamma-ray burst jet dissipation. Monthly Notices of the Royal Astronomical Society, 2012, 419, 573-607. | 4.4 | 189 |
| 16 | THE SUBMILLIMETER BUMP IN Sgr A* FROM RELATIVISTIC MHD SIMULATIONS. Astrophysical Journal, 2010, 717, 1092-1104. | 4.5 | 182 |
| 17 | Resolved magnetic-field structure and variability near the event horizon of Sagittarius A*. Science, 2015, 350, 1242-1245. | 12.6 | 176 |
| 18 | The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. Astrophysical Journal, Supplement Series, 2019, 243, 26. | 7.7 | 175 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Alignment of Magnetized Accretion Disks and Relativistic Jets with Spinning Black Holes. Science, 2013, 339, 49-52. | 12.6 | 172 |
| 20 | EFFICIENCY OF MAGNETIC TO KINETIC ENERGY CONVERSION IN A MONOPOLE MAGNETOSPHERE. Astrophysical Journal, 2009, 699, 1789-1808. | 4.5 | 163 |
| 21 | Prograde and retrograde black holes: whose jet is more powerful?. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 423, L55-L59. | 3.3 | 158 |
| 22 | Three-Dimensional Simulations of Magnetized Thin Accretion Disks around Black Holes: Stress in the Plunging Region. Astrophysical Journal, 2008, 687, L25-L28. | 4.5 | 146 |
| 23 | Equation of state in relativistic magnetohydrodynamics: variable versus constant adiabatic index. Monthly Notices of the Royal Astronomical Society, 2007, 378, 1118-1130. | 4.4 | 145 |
| 24 | Global simulations of axisymmetric radiative black hole accretion discs in general relativity with a mean-field magnetic dynamo. Monthly Notices of the Royal Astronomical Society, 2015, 447, 49-71. | 4.4 | 137 |
| 25 | SAGITTARIUS A* ACCRETION FLOW AND BLACK HOLE PARAMETERS FROM GENERAL RELATIVISTIC DYNAMICAL AND POLARIZED RADIATIVE MODELING. Astrophysical Journal, 2012, 755, 133. | 4.5 | 132 |
| 26 | TWO-DIMENSIONAL SIMULATIONS OF FU ORIONIS DISK OUTBURSTS. Astrophysical Journal, 2009, 701, 620-634. | 4.5 | 131 |
| 27 | The size of the jet launching region in M87. Monthly Notices of the Royal Astronomical Society, 2012, 421, 1517-1528. | 4.4 | 127 |
| 28 | Magnetohydrodynamic simulations of gamma-ray burst jets: Beyond the progenitor star. New Astronomy, 2010, 15, 749-754. | 1.8 | 124 |
| 29 | SOFT X-RAY TEMPERATURE TIDAL DISRUPTION EVENTS FROM STARS ON DEEP PLUNGING ORBITS. Astrophysical Journal Letters, 2015, 812, L39. | 8.3 | 116 |
| 30 | Measuring black hole spin by the continuum-fitting method: effect of deviations from the Novikov-Thorne disc model. Monthly Notices of the Royal Astronomical Society, 2011, 414, 1183-1194. | 4.4 | 106 |
| 31 | Radiative, two-temperature simulations of low-luminosity black hole accretion flows in general relativity. Monthly Notices of the Royal Astronomical Society, 2017, 466, 705-725. | 4.4 | 100 |
| 32 | General relativistic force-free electrodynamics: a new code and applications to black hole magnetospheres. Monthly Notices of the Royal Astronomical Society, 2006, 367, 1797-1807. | 4.4 | 98 |
| 33 | General Relativistic Modeling of Magnetized Jets from Accreting Black Holes. Journal of Physics: Conference Series, 2012, 372, 012040. | 0.4 | 79 |
| 34 | PARSEC-SCALE FARADAY ROTATION MEASURES FROM GENERAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF ACTIVE GALACTIC NUCLEUS JETS. Astrophysical Journal, 2010, 725, 750-773. | 4.5 | 76 |
| 35 | Efficiency of super-Eddington magnetically-arrested accretion. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 454, L6-L10. | 3.3 | 69 |
| 36 | Efficiency of thin magnetically arrested discs around black holes. Monthly Notices of the Royal Astronomical Society, 2016, 462, 636-648. | 4.4 | 67 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Probing the Magnetic Field Structure in  on Black Hole Horizon Scales with Polarized Radiative Transfer Simulations. Astrophysical Journal, 2017, 837, 180. | 4.5 | 66 |
| 38 | Magnetic reconnection with radiative cooling. I. Optically thin regime. Physics of Plasmas, 2011, 18, 042105. | 1.9 | 47 |
| 39 | Transient jet formation and state transitions from large-scale magnetic reconnection in black hole accretion discs. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2185-2190. | 4.4 | 46 |
| 40 | Numerical Models of Viscous Accretion Flows near Black Holes. Astrophysical Journal, 2002, 573, 728-737. | 4.5 | 45 |
| 41 | Thin-disc theory with a non-zero-torque boundary condition and comparisons with simulations. Monthly Notices of the Royal Astronomical Society, 2012, 420, 684-698. | 4.4 | 43 |
| 42 | Slowly balding black holes. Physical Review D, 2011, 84, . | 4.7 | 39 |
| 43 | PATOKA: Simulating Electromagnetic Observables of Black Hole Accretion. Astrophysical Journal, Supplement Series, 2022, 259, 64. | 7.7 | 25 |
| 44 | General relativistic radiation magnetohydrodynamic simulations of thin magnetically arrested discs. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3547-3561. | 4.4 | 22 |
| 45 | Angular momentum transport in thin magnetically arrested discs. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1837-1843. | 4.4 | 21 |
| 46 | SUBMILLIMETER QUASI-PERIODIC OSCILLATIONS IN MAGNETICALLY CHOKED ACCRETION FLOW MODELS OF SgrA*. Astrophysical Journal Letters, 2013, 774, L22. | 8.3 | 19 |
| 47 | Blazar Variability from Turbulence in Jets Launched by Magnetically Arrested Accretion Flows. Astrophysical Journal, 2017, 843, 81. | 4.5 | 18 |
| 48 | JET SIGNATURES IN THE SPECTRA OF ACCRETING BLACK HOLES. Astrophysical Journal, 2016, 819, 95. | 4.5 | 15 |
| 49 | Electromagnetic versus Lenseâ€“Thirring alignment of black hole accretion discs. Monthly Notices of the Royal Astronomical Society, 2017, 464, 2660-2671. | 4.4 | 9 |
| 50 | Observational Signatures of Mass-loading in Jets Launched by Rotating Black Holes. Astrophysical Journal, 2018, 853, 44. | 4.5 | 9 |
| 51 | EFFECTS OF SPIN ON HIGH-ENERGY RADIATION FROM ACCRETING BLACK HOLES. Astrophysical Journal, 2016, 831, 62. | 4.5 | 5 |
| 52 | Constraining the Accretion Flow in Sgr A* by General Relativistic Dynamical and Polarized Radiative Modeling. Proceedings of the International Astronomical Union, 2012, 8, 309-310. | 0.0 | 1 |
| 53 | Probing Black Hole Gravity. Science, 2012, 337, 916-917. | 12.6 | 0 |
| 54 | High energy radiation from jets and accretion disks near rotating black holes. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |