# Hui Li

List of Publications by Year
in descending order



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|---|---|---|---|
| 146 papers | 5,582 citations | 61984 43 h-index | 95266 68 g-index |
| 154 all docs | 154 docs citations | 154 times ranked | 4403 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Formation of Hard Power Laws in the Energetic Particle Spectra Resulting from Relativistic Magnetic Reconnection. Physical Review Letters, 2014, 113, 155005. | 7.8 | 333 |
| 2 | Ringed Structures of the HD 163296 Protoplanetary Disk Revealed by ALMA. Physical Review Letters, 2016, 117, 251101. | 7.8 | 269 |
| 3 | PARTICLE ACCELERATION AND PLASMA DYNAMICS DURING MAGNETIC RECONNECTION IN THE MAGNETICALLY DOMINATED REGIME. Astrophysical Journal, 2015, 806, 167. | 4.5 | 238 |
| 4 | Multiple Disk Gaps and Rings Generated by a Single Super-Earth. Astrophysical Journal, 2017, 843, 127. | 4.5 | 157 |
| 5 | 3D turbulent reconnection: Theory, tests, and astrophysical implications. Physics of Plasmas, 2020, 27, . | 1.9 | 128 |
| 6 | THE TWO STATES OF STAR-FORMING CLOUDS. Astrophysical Journal, 2012, 750, 13. | 4.5 | 119 |
| 7 | MODELING DUST EMISSION OF HL TAU DISK BASED ON PLANETâ€“DISK INTERACTIONS. Astrophysical Journal, 2016, 818, 76. | 4.5 | 117 |
| 8 | Whistler turbulence: Particle-in-cell simulations. Physics of Plasmas, 2008, 15, . | 1.9 | 115 |
| 9 | EFFICIENT PRODUCTION OF HIGH-ENERGY NONTHERMAL PARTICLES DURING MAGNETIC RECONNECTION IN A MAGNETICALLY DOMINATED IONâ€“ELECTRON PLASMA. Astrophysical Journal Letters, 2016, 818, L9. | 8.3 | 113 |
| 10 | Potential Vorticity Evolution of a Protoplanetary Disk with an Embedded Protoplanet. Astrophysical Journal, 2005, 624, 1003-1009. | 4.5 | 103 |
| 11 | COSMOLOGICAL MAGNETOHYDRODYNAMIC SIMULATIONS OF GALAXY CLUSTER RADIO RELICS: INSIGHTS AND WARNINGS FOR OBSERVATIONS. Astrophysical Journal, 2013, 765, 21. | 4.5 | 101 |
| 12 | Cascade of whistler turbulence: Particleâ€inâ€cell simulations. Geophysical Research Letters, 2008, 35, . | 4.0 | 97 |
| 13 | EFFECTS OF DUST FEEDBACK ON VORTICES IN PROTOPLANETARY DISKS. Astrophysical Journal Letters, 2014, 795, L39. | 8.3 | 93 |
| 14 | THE GROWTH OF THE STELLAR SEEDS OF SUPERMASSIVE BLACK HOLES. Astrophysical Journal, 2012, 750, 66. | 4.5 | 88 |
| 15 | SUPERMASSIVE SEEDS FOR SUPERMASSIVE BLACK HOLES. Astrophysical Journal, 2013, 771, 116. | 4.5 | 88 |
| 16 | Particle Acceleration during Magnetic Reconnection in a Low-beta Plasma. Astrophysical Journal, 2017, 843, 21. | 4.5 | 85 |
| 17 | Vortices in the Co-orbital Region of an Embedded Protoplanet. Astrophysical Journal, 2003, 596, L91-L94. | 4.5 | 83 |
| 18 | TURBULENCE AND DYNAMO IN GALAXY CLUSTER MEDIUM: IMPLICATIONS ON THE ORIGIN OF CLUSTER MAGNETIC FIELDS. Astrophysical Journal, 2009, 698, L14-L17. | 4.5 | 81 |

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| 19 | Modeling the Largeâ€Scale Structures of Astrophysical Jets in the Magnetically Dominated Limit. Astrophysical Journal, 2006, 643, 92-100. | 4.5 | 79 |
| 20 | NONTHERMALLY DOMINATED ELECTRON ACCELERATION DURING MAGNETIC RECONNECTION IN A LOW-Î² PLASMA. Astrophysical Journal Letters, 2015, 811, L24. | 8.3 | 79 |
| 21 | COSMOLOGICAL ADAPTIVE MESH REFINEMENT MAGNETOHYDRODYNAMICS WITH ENZO. Astrophysical Journal, Supplement Series, 2010, 186, 308-333. | 7.7 | 75 |
| 22 | THE FIRST PLANETS: THE CRITICAL METALLICITY FOR PLANET FORMATION. Astrophysical Journal, 2012, 751, 81. | 4.5 | 75 |
| 23 | The Biermann Battery in Cosmological MHD Simulations of Population III Star Formation. Astrophysical Journal, 2008, 688, L57-L60. | 4.5 | 72 |
| 24 | Constraining the Nature of Xâ€Ray Cavities in Clusters and Galaxies. Astrophysical Journal, 2008, 687, 173-192. | 4.5 | 71 |
| 25 | ON THE AMPLIFICATION OF MAGNETIC FIELD BY A SUPERNOVA BLAST SHOCK WAVE IN A TURBULENT MEDIUM. Astrophysical Journal, 2012, 747, 98. | 4.5 | 70 |
| 26 | CONSERVATIVE CASCADE OF KINETIC ENERGY IN COMPRESSIBLE TURBULENCE. Astrophysical Journal Letters, 2012, 751, L29. | 8.3 | 70 |
| 27 | Scaling of Magnetic Reconnection in Relativistic Collisionless Pair Plasmas. Physical Review Letters, 2015, 114, 095002. | 7.8 | 69 |
| 28 | POLARIZATION SWINGS REVEAL MAGNETIC ENERGY DISSIPATION IN BLAZARS. Astrophysical Journal, 2015, 804, 58. | 4.5 | 69 |
| 29 | Electrodynamics of neutron stars. Physics Reports, 1999, 318, 227-297. | 25.6 | 66 |
| 30 | Including Dust Coagulation in Hydrodynamic Models of Protoplanetary Disks: Dust Evolution in the Vicinity of a Jupiter-mass Planet. Astrophysical Journal, 2019, 885, 91. | 4.5 | 65 |
| 31 | Stability Properties of Magnetic Tower Jets. Astrophysical Journal, 2007, 656, 721-732. | 4.5 | 64 |
| 32 | LONG-TERM EVOLUTION OF PLANET-INDUCED VORTICES IN PROTOPLANETARY DISKS. Astrophysical Journal Letters, 2014, 788, L41. | 8.3 | 61 |
| 33 | On the dissipation of magnetic fluctuations in the solar wind. Geophysical Research Letters, 2001, 28, 1347-1350. | 4.0 | 60 |
| 34 | The Roles of Fluid Compression and Shear in Electron Energization during Magnetic Reconnection. Astrophysical Journal, 2018, 855, 80. | 4.5 | 59 |
| 35 | Particle energization in 3D magnetic reconnection of relativistic pair plasmas. Physics of Plasmas, 2011, 18, . | 1.9 | 56 |
| 36 | New Constraints on Turbulence and Embedded Planet Mass in the HD 163296 Disk from Planetâ€“Disk Hydrodynamic Simulations. Astrophysical Journal, 2018, 857, 87. | 4.5 | 56 |

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| 37 | The origin of the magnetic fields of the universe: The plasma astrophysics of the free energy of the universe. Physics of Plasmas, 2001, 8, 2425-2431. | 1.9 | 54 |
| 38 | Determining the Dominant Acceleration Mechanism during Relativistic Magnetic Reconnection in Large-scale Systems. Astrophysical Journal Letters, 2019, 879, L23. | 8.3 | 54 |
| 39 | Formation of Power-law Electron Energy Spectra in Three-dimensional Low-Î² Magnetic Reconnection. Astrophysical Journal, 2019, 884, 118. | 4.5 | 53 |
| 40 | Structure of Magnetic Tower Jets in Stratified Atmospheres. Astrophysical Journal, 2006, 652, 1059-1067. | 4.5 | 49 |
| 41 | EVOLUTION AND DISTRIBUTION OF MAGNETIC FIELDS FROM ACTIVE GALACTIC NUCLEI IN GALAXY CLUSTERS. II. THE EFFECTS OF CLUSTER SIZE AND DYNAMICAL STATE. Astrophysical Journal, 2011, 739, 77. | 4.5 | 49 |
| 42 | RELATIVISTIC MHD SIMULATIONS OF COLLISION-INDUCED MAGNETIC DISSIPATION IN POYNTING-FLUX-DOMINATED JETS/OUTFLOWS. Astrophysical Journal, 2015, 805, 163. | 4.5 | 48 |
| 43 | Orbital Evolution of Binary Black Holes in Active Galactic Nucleus Disks: A Disk Channel for Binary Black Hole Mergers?. Astrophysical Journal, 2021, 911, 124. | 4.5 | 44 |
| 44 | EVOLUTION AND DISTRIBUTION OF MAGNETIC FIELDS FROM ACTIVE GALACTIC NUCLEI IN GALAXY CLUSTERS. I. THE EFFECT OF INJECTION ENERGY AND REDSHIFT. Astrophysical Journal, 2010, 725, 2152-2165. | 4.5 | 42 |
| 45 | Radiation Hydrodynamical Simulations of the First Quasars. Astrophysical Journal, 2018, 865, 126. | 4.5 | 42 |
| 46 | CosmoMHD: A Cosmological Magnetohydrodynamics Code. Astrophysical Journal, Supplement Series, 2008, 174, 1-12. | 7.7 | 41 |
| 47 | POLARIZATION SIGNATURES OF RELATIVISTIC MAGNETOHYDRODYNAMIC SHOCKS IN THE BLAZAR EMISSION REGION. I. FORCE-FREE HELICAL MAGNETIC FIELDS. Astrophysical Journal, 2016, 817, 63. | 4.5 | 39 |
| 48 | MIGRATION AND GROWTH OF PROTOPLANETARY EMBRYOS. I. CONVERGENCE OF EMBRYOS IN PROTOPLANETARY DISKS. Astrophysical Journal, 2014, 797, 20. | 4.5 | 38 |
| 49 | Large-scale Compression Acceleration during Magnetic Reconnection in a Low-Î² Plasma. Astrophysical Journal, 2018, 866, 4. | 4.5 | 38 |
| 50 | Efficient Nonthermal Ion and Electron Acceleration Enabled by the Flux-Rope Kink Instability in 3D Nonrelativistic Magnetic Reconnection. Physical Review Letters, 2021, 127, 185101. | 7.8 | 37 |
| 51 | RESONANCES OF MULTIPLE EXOPLANETS AND IMPLICATIONS FOR THEIR FORMATION. Astrophysical Journal Letters, 2014, 789, L23. | 8.3 | 35 |
| 52 | FIRST-ORDER PARTICLE ACCELERATION IN MAGNETICALLY DRIVEN FLOWS. Astrophysical Journal, 2016, 819, 90. | 4.5 | 34 |
| 53 | Magnetic Energy Release, Plasma Dynamics, and Particle Acceleration in Relativistic Turbulent Magnetic Reconnection. Astrophysical Journal, 2021, 919, 111. | 4.5 | 34 |
| 54 | The Acceleration of High-energy Protons at Coronal Shocks: The Effect of Large-scale Streamer-like Magnetic Field Structures. Astrophysical Journal, 2017, 851, 38. | 4.5 | 33 |

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| 55 | Long-lived Dust Asymmetries at Dead Zone Edges in Protoplanetary Disks. Astrophysical Journal, 2017, 835, 118. | 4.5 | 32 |
| 56 | Polarization Signatures of Kink Instabilities in the Blazar Emission Region from Relativistic Magnetohydrodynamic Simulations. Astrophysical Journal, 2017, 835, 125. | 4.5 | 30 |
| 57 | COLLISION-INDUCED MAGNETIC RECONNECTION AND A UNIFIED INTERPRETATION OF POLARIZATION PROPERTIES OF GRBs AND BLAZARS. Astrophysical Journal Letters, 2016, 821, L12. | 8.3 | 29 |
| 58 | Investigating the Early Evolution of Planetary Systems with ALMA and the Next Generation Very Large Array. Astrophysical Journal, 2018, 853, 110. | 4.5 | 29 |
| 59 | Stochastic Electron Acceleration in Shell-Type Supernova Remnants. Astrophysical Journal, 2008, 683, L163-L166. | 4.5 | 28 |
| 60 | Particle acceleration during magnetic reconnection in a low-beta pair plasma. Physics of Plasmas, 2016, 23, . | 1.9 | 28 |
| 61 | Symmetric Set of Transport Coefficients for Collisional Magnetized Plasma. Physical Review Letters, 2021, 126, 075001. | 7.8 | 28 |
| 62 | Exploring the Acceleration Mechanisms for Particle Injection and Power-law Formation during Transrelativistic Magnetic Reconnection. Astrophysical Journal, 2020, 899, 151. | 4.5 | 28 |
| 63 | COMPARISONS OF COSMOLOGICAL MAGNETOHYDRODYNAMIC GALAXY CLUSTER SIMULATIONS TO RADIO OBSERVATIONS. Astrophysical Journal, 2012, 759, 40. | 4.5 | 26 |
| 64 | A Numerical Model of Hercules A by Magnetic Tower: Jet/Lobe Transition, Wiggling, and the Magnetic Field Distribution. Astrophysical Journal, 2008, 686, 843-850. | 4.5 | 26 |
| 65 | Particle Energization in an Expanding Magnetized Relativistic Plasma. Physical Review Letters, 2003, 90, 085001. | 7.8 | 25 |
| 66 | Relaxed states in relativistic multifluid plasmas. Physics of Plasmas, 2010, 17, . | 1.9 | 25 |
| 67 | A novel approach of divergence-free reconstruction for adaptive mesh refinement. Journal of Computational Physics, 2004, 199, 1-15. | 3.8 | 24 |
| 68 | MAGNETOHYDRODYNAMIC TURBULENCE AND COSMIC-RAY REACCELERATION IN GALAXY CLUSTERS. Astrophysical Journal, 2013, 771, 131. | 4.5 | 23 |
| 69 | Identifying Anticyclonic Vortex Features Produced by the Rossby Wave Instability in Protoplanetary Disks. Astrophysical Journal, 2018, 867, 3. | 4.5 | 23 |
| 70 | The Preservation of Super-Earths and the Emergence of Gas Giants after Their Progenitor Cores Have Entered the Pebble-isolation Phase. Astrophysical Journal, 2020, 896, 135. | 4.5 | 23 |
| 71 | Hot Circumsingle Disks Drive Binary Black Hole Mergers in Active Galactic Nucleus Disks. Astrophysical Journal Letters, 2022, 928, L19. | 8.3 | 23 |
| 72 | POLARIZED EMISSION OF SAGITTARIUS A*. Astrophysical Journal, 2009, 703, 557-568. | 4.5 | 22 |

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| 73 | RELATIVISTIC MHD SIMULATIONS OF POYNTING FLUX-DRIVEN JETS. Astrophysical Journal, 2014, 781, 48. | 4.5 | 22 |
| 74 | The Parametric Decay Instability of AlfvÃ©n Waves in Turbulent Plasmas and the Applications in the Solar Wind. Astrophysical Journal, 2017, 842, 63. | 4.5 | 21 |
| 75 | THREE-DIMENSIONAL MHD SIMULATION OF THE CALTECH PLASMA JET EXPERIMENT: FIRST RESULTS. Astrophysical Journal, 2014, 791, 40. | 4.5 | 21 |
| 76 | Whistler anisotropy instability: Wave-particle scattering rate. Journal of Geophysical Research, 2002, 107, SMP 18-1. | 3.3 | 20 |
| 77 | Probing the Emission Mechanism and Magnetic Field of Neutrino Blazars with Multiwavelength Polarization Signatures. Astrophysical Journal, 2019, 876, 109. | 4.5 | 20 |
| 78 | Particle Acceleration in Kinetic Simulations of Nonrelativistic Magnetic Reconnection with Different Ionâ€“Electron Mass Ratios. Astrophysical Journal, 2019, 879, 5. | 4.5 | 20 |
| 79 | Fast Magnetic Reconnection with Turbulence in High Lundquist Number Limit. Astrophysical Journal Letters, 2020, 901, L22. | 8.3 | 20 |
| 80 | Magnetic reconnection in a force-free plasma: Simulations of micro- and macroinstabilities. Physics of Plasmas, 2003, 10, 347-356. | 1.9 | 19 |
| 81 | Linearly and Circularly Polarized Emission in Sagittarius A*. Astrophysical Journal, 2008, 676, L119-L122. | 4.5 | 19 |
| 82 | Effects of Ringed Structures and Dust Size Growth on Millimeter Observations of Protoplanetary Disks. Astrophysical Journal, 2019, 878, 39. | 4.5 | 19 |
| 83 | NONAXISYMMETRIC ROSSBY VORTEX INSTABILITY WITH TOROIDAL MAGNETIC FIELDS IN RADIALLY STRUCTURED DISKS. Astrophysical Journal, 2009, 702, 75-84. | 4.5 | 18 |
| 84 | On the Existence of Fast Modes in Compressible Magnetohydrodynamic Turbulence. Astrophysical Journal, 2022, 926, 222. | 4.5 | 18 |
| 85 | Three-dimensional Magnetohydrodynamical Simulations of the Morphology of Headâ€“Tail Radio Galaxies Based on theÂMagnetic Tower Jet Model. Astrophysical Journal, 2017, 839, 14. | 4.5 | 17 |
| 86 | Parametric Decay Instability and Dissipation of Low-frequency AlfvÃ©n Waves in Low-beta Turbulent Plasmas. Astrophysical Journal, 2018, 855, 139. | 4.5 | 17 |
| 87 | The Observability of Vortex-driven Spiral Arms in Protoplanetary Disks: Basic Spiral Properties. Astrophysical Journal Letters, 2019, 883, L39. | 8.3 | 17 |
| 88 | New Constraints on the Dust and Gas Distribution in the LkCa 15 Disk from ALMA. Astrophysical Journal, 2019, 881, 108. | 4.5 | 17 |
| 89 | Cosmological Mestel Disks and the Rossby Vortex Instability: The Origin of Supermassive Black Holes. Astrophysical Journal, 2003, 598, L7-L10. | 4.5 | 16 |
| 90 | Meso-scale Instability Triggered by Dust Feedback in Dusty Rings: Origin and Observational Implications. Astrophysical Journal, 2020, 893, 89. | 4.5 | 16 |

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| 91 | Stochastic Acceleration in the Western Hot Spot of Pictor A. Astrophysical Journal, 2008, 673, L139-L142. | 4.5 | 15 |
| 92 | A FAST POTENTIAL AND SELF-GRAVITY SOLVER FOR NONAXISYMMETRIC DISKS. Astrophysical Journal, Supplement Series, 2009, 181, 244-254. | 7.7 | 15 |
| 93 | Monte Carlo simulations of the broad-band spectra of Sagittarius A* through the use of general relativistic magnetohydrodynamics. Monthly Notices of the Royal Astronomical Society, 2010, 401, 1620-1627. | 4.4 | 15 |
| 94 | High Magnetic Shear Gain in a Liquid Sodium Stable Couette Flow Experiment: A Prelude to an<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi><mml:mo>â^'</mml:mo><mml:mi>Î©</mml:mi></mml:math>Dynamo. Physical Review Letters, 2011, 106, 175003. | 7.8 | 15 |
| 95 | Simulations of electron/electron instabilities: Electromagnetic fluctuations. Physics of Plasmas, 2000, 7, 448-456. | 1.9 | 14 |
| 96 | Equilibrium and magnetic properties of a rotating plasma annulus. Physics of Plasmas, 2008, 15, . | 1.9 | 14 |
| 97 | Retention of Long-period Gas Giant Planets: Type II Migration Revisited. Astrophysical Journal, 2020, 900, 44. | 4.5 | 14 |
| 98 | DERIVATION OF THE ELECTRON DISTRIBUTION IN SUPERNOVA REMNANT RX J1713.7â€“3946 VIA A SPECTRAL INVERSION METHOD. Astrophysical Journal Letters, 2011, 742, L10. | 8.3 | 13 |
| 99 | BASIC BELL-MHD TURBULENCE. Astrophysical Journal, 2014, 788, 107. | 4.5 | 13 |
| 100 | Acceleration mechanisms 2: force-free reconnection. Comptes Rendus Physique, 2004, 5, 431-440. | 0.9 | 11 |
| 101 | Magnetized Reverse Shock: Density-fluctuation-induced Field Distortion, Polarization Degree Reduction, and Application to GRBs. Astrophysical Journal Letters, 2017, 845, L3. | 8.3 | 11 |
| 102 | Reverse Current Model for Coronal Mass Ejection Cavity Formation. Astrophysical Journal Letters, 2018, 862, L15. | 8.3 | 11 |
| 103 | Planet-induced Vortices with Dust Coagulation in Protoplanetary Disks. Astrophysical Journal Letters, 2020, 892, L19. | 8.3 | 11 |
| 104 | Ideal magnetohydrodynamic simulations of low beta compact toroid injection into a hot strongly magnetized plasma. Nuclear Fusion, 2009, 49, 095008. | 3.5 | 10 |
| 105 | Multiwavelength Investigation of Pulsar Wind Nebula DA 495 with HAWC, VERITAS, and NuSTAR. Astrophysical Journal, 2019, 878, 126. | 4.5 | 10 |
| 106 | On the Dust Signatures Induced by Eccentric Super-Earths in Protoplanetary Disks. Astrophysical Journal, 2019, 886, 62. | 4.5 | 10 |
| 107 | Magnetization around mix jets entering inertial confinement fusion fuel. Physics of Plasmas, 2020, 27, . | 1.9 | 10 |
| 108 | Ring Morphology with Dust Coagulation in Protoplanetary Disks. Astrophysical Journal Letters, 2020, 889, L8. | 8.3 | 10 |

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| 109 | Constraints on planet formation via gravitational instability across cosmic time. Monthly Notices of the Royal Astronomical Society, 2013, 431, 972-977. | 4.4 | 9 |
| 110 | QUASI-STATIC MODEL OF COLLIMATED JETS AND RADIO LOBES. I. ACCRETION DISK AND JETS. Astrophysical Journal, 2014, 789, 144. | 4.5 | 9 |
| 111 | The Halo Beaming Model for Gammaâ€Ray Bursts. Astrophysical Journal, 1997, 484, 720-740. | 4.5 | 9 |
| 112 | The Nature of Linearly Polarized Millimeter and Submillimeter Emission in Sagittarius A*. Astrophysical Journal, 2007, 668, L127-L130. | 4.5 | 8 |
| 113 | QUASI-STATIC MODEL OF MAGNETICALLY COLLIMATED JETS AND RADIO LOBES. II. JET STRUCTURE AND STABILITY. Astrophysical Journal, 2015, 813, 136. | 4.5 | 8 |
| 114 | Dissipation and particle energization in moderate to low beta turbulent plasma via PIC simulations. Journal of Physics: Conference Series, 2017, 837, 012004. | 0.4 | 8 |
| 115 | Overcoming the dephasing limit in multiple-pulse laser wakefield acceleration. Physical Review Accelerators and Beams, 2020, 23, . | 1.6 | 8 |
| 116 | Long-Term Evolution of Magnetized Bubbles in Galaxy Clusters. Astrophysical Journal, 2008, 684, L57-L60. | 4.5 | 7 |
| 117 | Thermoresistive instability in magnetar crusts. Monthly Notices of the Royal Astronomical Society, 2012, 420, 949-956. | 4.4 | 7 |
| 118 | Apex Dips of Experimental Flux Ropes: Helix or Cusp?. Astrophysical Journal, 2017, 848, 89. | 4.5 | 7 |
| 119 | Heating of Heavy Ions in Low-beta Compressible Turbulence. Astrophysical Journal, 2020, 890, 161. | 4.5 | 7 |
| 120 | The structure of TeV-bright shell-type supernova remnants. Astronomy and Astrophysics, 2015, 573, A37. | 5.1 | 7 |
| 121 | Ideal magnetohydrodynamic simulation of magnetic bubble expansion as a model for extragalactic radio lobes. Physics of Plasmas, 2008, 15, . | 1.9 | 6 |
| 122 | A Quasi-static Hyper-resistive Model of Ultra-high-energy Cosmic-ray Acceleration by Magnetically Collimated Jets Created by Active Galactic Nuclei. Astrophysical Journal, 2019, 885, 4. | 4.5 | 6 |
| 123 | Similarity solutions for magnetic bubble expansion. Physics of Plasmas, 2004, 11, 2082-2096. | 1.9 | 5 |
| 124 | Determination of a macro- to micro-scale progression leading to a magnetized plasma disruption. Physics of Plasmas, 2020, 27, . | 1.9 | 5 |
| 125 | Modeling hydrodynamics, magnetic fields, and synthetic radiographs for high-energy-density plasma flows in shock-shear targets. Physics of Plasmas, 2020, 27, . | 1.9 | 5 |
| 126 | Data acquisition in a high-speed rotating frame for New Mexico Institute of Mining and Technology liquid sodium Î±Ï‰ dynamo experiment. Review of Scientific Instruments, 2013, 84, 104501. | 1.3 | 4 |

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| 127 | MPRAD: A Monte Carlo and ray-tracing code for the proton radiography in high-energy-density plasma experiments. Review of Scientific Instruments, 2019, 90, 123503. | 1.3 | 4 |
| 128 | Magnetic Energy Conversion in Magnetohydrodynamics: Curvature Relaxation and Perpendicular Expansion of Magnetic Fields. Astrophysical Journal, 2022, 925, 128. | 4.5 | 4 |
| 129 | Mini-conference and related sessions on laboratory plasma astrophysics. Physics of Plasmas, 2004, 11, 2976-2983. | 1.9 | 3 |
| 130 | Observation of an Enhanced Magnetic Helicity Injection Mode by a Rotating Plasma Annulus. Journal of Fusion Energy, 2007, 26, 233-238. | 1.2 | 3 |
| 131 | Simulations of the Polarized Sky for the SKA: How to Constrain Intracluster Magnetic Fields. Galaxies, 2018, 6, 133. | 3.0 | 3 |
| 132 | Magnetically Induced Current Piston for Generating Extreme-ultraviolet Fronts in the Solar Corona. Astrophysical Journal, 2019, 874, 137. | 4.5 | 3 |
| 133 | Ring Formation in Protoplanetary Disks Driven by an Eccentric Instability. Astrophysical Journal, 2021, 910, 79. | 4.5 | 3 |
| 134 | 3D Numerical Simulation of Kink-driven Rayleighâ€“Taylor Instability Leading to Fast Magnetic Reconnection. Astrophysical Journal Letters, 2020, 895, L7. | 8.3 | 3 |
| 135 | A Cosmological AMR MHD Module for Enzo. , 2008, , . | | 2 |
| 136 | The role of disk self-gravity on gap formation of the HL Tau proto-planetary disk. Journal of Physics: Conference Series, 2016, 719, 012007. | 0.4 | 2 |
| 137 | Faster ablative Kelvinâ€“Helmholtz instability growth in a magnetic field. Physics of Plasmas, 2022, 29, . | 1.9 | 2 |
| 138 | Role of self-generated magnetic fields in the inertial fusion ignition threshold. Physics of Plasmas, 2022, 29, 072701. | 1.9 | 2 |
| 139 | Spheromaks and how plasmas may explain the ultra high energy cosmic ray mystery. Journal of Plasma Physics, 2016, 82, . | 2.1 | 1 |
| 140 | Thermomagnetic instability of plasma composition gradients. Physics of Plasmas, 2020, 27, . | 1.9 | 1 |
| 141 | Design of a compact coaxial magnetized plasma gun for magnetic bubble expansion experiments. , 2009, , . | | 0 |
| 142 | The magnetized universe: its origin and dissipation through acceleration and leakage to the voids. Proceedings of the International Astronomical Union, 2010, 6, 2-9. | 0.0 | 0 |
| 143 | General relativistic magnetohydrodynamic and Monte Carlo Modeling of sagittarius A*. Astrophysics and Space Science, 2011, 336, 145-149. | 1.4 | 0 |
| 144 | The growth of the stellar seeds of supermassive black holes. , 2012, , . | | 0 |

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| 145 | 3D Simulations of Type-I Migration in Nearly Laminar Disks. EPJ Web of Conferences, 2013, 46, 05003. | 0.3 | 0 |
| 146 | Modified FARGO algorithm and its combination with adaptive mesh refinement. Journal of Computational and Applied Mathematics, 2016, 307, 170-182. | 2.0 | 0 |