Siyao Xu

List of Publications by Year in descending order

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361413 414414 1,085 43 20 32 h-index citations g-index papers 43 43 43 797 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Shock Acceleration with Oblique and Turbulent Magnetic Fields. Astrophysical Journal, 2022, 925, 48. | 4.5 | 12 |
| 2 | Superdiffusion of cosmic rays in compressible magnetized turbulence. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2111-2124. | 4.4 | 22 |
| 3 | Cosmic Ray Streaming in the Turbulent Interstellar Medium. Astrophysical Journal, 2022, 927, 94. | 4.5 | 12 |
| 4 | The velocity statistics of turbulent clouds in the presence of gravity, magnetic fields, radiation, and outflow feedback. Monthly Notices of the Royal Astronomical Society, 2022, 513, 2100-2110. | 4.4 | 12 |
| 5 | Damping of Alfv \tilde{A} @n Waves in MHD Turbulence and Implications for Cosmic Ray Streaming Instability and Galactic Winds. Frontiers in Physics, 2022, 10, . | 2.1 | 7 |
| 6 | Nanoflare Theory Revisited. Astrophysical Journal, 2021, 906, 109. | 4.5 | 7 |
| 7 | Measuring Turbulence with Young Stars in the Orion Complex. Astrophysical Journal Letters, 2021, 907, L40. | 8.3 | 24 |
| 8 | Polarization Predictions in the GRB Prompt Phase with the Internal Shock Model. Astrophysical Journal, 2021, 909, 184. | 4.5 | 4 |
| 9 | Measuring Magnetization with Rotation Measures and Velocity Centroids in Supersonic MHD Turbulence. Astrophysical Journal, 2021, 910, 88. | 4.5 | 16 |
| 10 | Anisotropies in Compressible MHD Turbulence: Probing Magnetic Fields and Measuring Magnetization. Astrophysical Journal, 2021, 911, 37. | 4.5 | 19 |
| 11 | Small-scale turbulent dynamo in astrophysical environments: nonlinear dynamo and dynamo in a partially ionized plasma. Reviews of Modern Plasma Physics, 2021, 5, 1. | 4.1 | 2 |
| 12 | Anisotropic Turbulence in Position–Position–Velocity Space: Probing Three-dimensional Magnetic Fields. Astrophysical Journal, 2021, 915, 67. | 4.5 | 14 |
| 13 | Statistical Measurements of Dispersion Measure Fluctuations in Fast Radio Bursts. Astrophysical Journal Letters, 2021, 922, L31. | 8.3 | 2 |
| 14 | Mirror Diffusion of Cosmic Rays in Highly Compressible Turbulence Near Supernova Remnants. Astrophysical Journal, 2021, 922, 264. | 4.5 | 8 |
| 15 | Diffusion of Cosmic Rays in MHD Turbulence with Magnetic Mirrors. Astrophysical Journal, 2021, 923, 53. | 4.5 | 28 |
| 16 | Projected velocity statistics of interstellar turbulence. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1044-1048. | 4.4 | 14 |
| 17 | Turbulence in a Self-gravitating Molecular Cloud Core. Astrophysical Journal, 2020, 890, 157. | 4.5 | 28 |
| 18 | Trapping of Cosmic Rays in MHD Turbulence. Astrophysical Journal, 2020, 894, 63. | 4.5 | 20 |

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|----|---|-----|-----------|
| 19 | Direct Detection of Black Hole-driven Turbulence in the Centers of Galaxy Clusters. Astrophysical Journal Letters, 2020, 889, L1. | 8.3 | 48 |
| 20 | Cosmic ray transport in starburst galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2817-2833. | 4.4 | 47 |
| 21 | 3D turbulent reconnection: Theory, tests, and astrophysical implications. Physics of Plasmas, 2020, 27, | 1.9 | 128 |
| 22 | Nonlinear Turbulent Dynamo during Gravitational Collapse. Astrophysical Journal, 2020, 899, 115. | 4.5 | 19 |
| 23 | Nonuniversal Interstellar Density Spectra Probed by Pulsars. Astrophysical Journal, 2020, 905, 159. | 4.5 | 20 |
| 24 | Probing the Intergalactic Turbulence with Fast Radio Bursts. Astrophysical Journal Letters, 2020, 898, L48. | 8.3 | 16 |
| 25 | Nanoflare Theory and Stochastic Reconnection. Research Notes of the AAS, 2020, 4, 89. | 0.7 | 0 |
| 26 | On the Formation of Density Filaments in the Turbulent Interstellar Medium. Astrophysical Journal, 2019, 878, 157. | 4.5 | 42 |
| 27 | Gamma-Ray Bursts Induced by Turbulent Reconnection. Astrophysical Journal, 2019, 882, 184. | 4.5 | 24 |
| 28 | Turbulent Dynamo in a Weakly Ionized Medium. Astrophysical Journal, 2019, 872, 62. | 4.5 | 12 |
| 29 | On the Broadband Synchrotron Spectra of Pulsar Wind Nebulae. Astrophysical Journal, 2019, 872, 10. | 4.5 | 18 |
| 30 | 3D Turbulent Reconnection: 20 Years After. Journal of Physics: Conference Series, 2019, 1332, 012009. | 0.4 | 5 |
| 31 | Synchrotron spectra of GRB prompt emission and pulsar wind nebulae. Journal of Physics: Conference Series, 2019, 1332, 012019. | 0.4 | 1 |
| 32 | On the Synchrotron Spectrum of GRB Prompt Emission. Astrophysical Journal, 2018, 853, 43. | 4.5 | 17 |
| 33 | Resonance-broadened Transit Time Damping of Particles in MHD Turbulence. Astrophysical Journal, 2018, 868, 36. | 4.5 | 32 |
| 34 | Adiabatic Non-resonant Acceleration in Magnetic Turbulence and Hard Spectra of Gamma-Ray Bursts. Astrophysical Journal Letters, 2017, 846, L28. | 8.3 | 35 |
| 35 | Magnetic Field Amplification in Supernova Remnants. Astrophysical Journal, 2017, 850, 126. | 4.5 | 29 |
| 36 | Magnetohydrodynamic turbulence and turbulent dynamo in partially ionized plasma. New Journal of Physics, 2017, 19, 065005. | 2.9 | 20 |

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|----|--|-----|----------|
| 37 | SCATTER BROADENING OF PULSARS AND IMPLICATIONS ON THE INTERSTELLAR MEDIUM TURBULENCE. Astrophysical Journal, 2017, 835, 2. | 4.5 | 38 |
| 38 | INTERPRETATION OF THE STRUCTURE FUNCTION OF ROTATION MEASURE IN THE INTERSTELLAR MEDIUM. Astrophysical Journal, 2016, 824, 113. | 4.5 | 42 |
| 39 | DAMPING OF MAGNETOHYDRODYNAMIC TURBULENCE IN PARTIALLY IONIZED PLASMA: IMPLICATIONS FOR COSMIC RAY PROPAGATION. Astrophysical Journal, 2016, 826, 166. | 4.5 | 52 |
| 40 | ON THE ORIGIN OF THE SCATTER BROADENING OF FAST RADIO BURST PULSES AND ASTROPHYSICAL IMPLICATIONS. Astrophysical Journal, 2016, 832, 199. | 4.5 | 39 |
| 41 | TURBULENT DYNAMO IN A CONDUCTING FLUID AND A PARTIALLY IONIZED GAS. Astrophysical Journal, 2016, 833, 215. | 4.5 | 58 |
| 42 | THE LINE WIDTH DIFFERENCE OF NEUTRALS AND IONS INDUCED BY MHD TURBULENCE. Astrophysical Journal, 2015, 810, 44. | 4.5 | 25 |
| 43 | COSMIC-RAY PARALLEL AND PERPENDICULAR TRANSPORT IN TURBULENT MAGNETIC FIELDS. Astrophysical Journal, 2013, 779, 140. | 4.5 | 67 |