# Axel Brandenburg

List of Publications by Year
in descending order



| 482 | 17,684 | 18887 64 | 25230 113 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 495 | 495 | 495 | 6409 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Spectral characterisation of inertial particle clustering in turbulence. Journal of Fluid Mechanics, 2022, 934, . | 1.4 | 8 |
| 2 | Dynamo instabilities in plasmas with inhomogeneous chiral chemical potential. Physical Review D, 2022, 105, . | 1.6 | 9 |
| 3 | Production of a Chiral Magnetic Anomaly with Emerging Turbulence and Mean-Field Dynamo Action. Physical Review Letters, 2022, 128, 065002. | 2.9 | 8 |
| 4 | Collision fluctuations of lucky droplets with superdroplets. Journals of the Atmospheric Sciences, 2022, , . | 0.6 | 0 |
| 5 | Dynamo effect in unstirred self-gravitating turbulence. Monthly Notices of the Royal Astronomical Society, 2022, 513, 2136-2151. | 1.6 | 5 |
| 6 | Evolution of Primordial Magnetic Fields during Large-scale Structure Formation. Astrophysical Journal, 2022, 929, 127. | 1.6 | 14 |
| 7 | Polarization of gravitational waves from helical MHD turbulent sources. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 019. | 1.9 | 13 |
| 8 | Big Bang Nucleosynthesis Limits and Relic Gravitational-Wave Detection Prospects. Physical Review Letters, 2022, 128, . | 2.9 | 8 |
| 9 | Compressible Test-field Method and Its Application to Shear Dynamos. Astrophysical Journal, 2022, 932, 8. | 1.6 | 8 |
| 10 | Circular polarization of gravitational waves from early-Universe helical turbulence. Physical Review Research, 2021, 3, . | 1.3 | 26 |
| 11 | The Pencil Code, a modular MPI code for partial differential equations and particles: multipurpose and multiuser-maintained. Journal of Open Source Software, 2021, 6, 2807. | 2.0 | 92 |
| 12 | The effect of a dynamo-generated field on the Parker wind. Astronomy and Astrophysics, 2021, 647, A18. | 2.1 | 3 |
| 13 | Relic Gravitational Waves from the Chiral Magnetic Effect. Astrophysical Journal, 2021, 911, 110. | 1.6 | 23 |
| 14 | The scalar, vector, and tensor modes in gravitational wave turbulence simulations. Classical and Quantum Gravity, 2021, 38, 145002. | 1.5 | 14 |
| 15 | Tensor spectrum of turbulence-sourced gravitational waves as a constraint on graviton mass. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 015. | 1.9 | 4 |
| 16 | Can we observe the QCD phase transition-generated gravitational waves through pulsar timing arrays?. Physical Review D, 2021, 104, . | 1.6 | 36 |
| 17 | Turbulent radiative diffusion and turbulent Newtonian cooling. Physics of Fluids, 2021, 33, 095125. | 1.6 | 3 |
| 18 | A simple model for the total number of SARS-CoV-2 infections on a national level. Epidemiology and Infection, 2021, 149, e80. | 1.0 | 6 |

| # | Article | IF | Citations |
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| 19 | Simulating Relic Gravitational Waves from Inflationary Magnetogenesis. Astrophysical Journal, 2021, 920, 26. | 1.6 | 7 |
| 20 | Simulations of Helical Inflationary Magnetogenesis and Gravitational Waves. Astrophysical Journal, 2021, 922, 192. | 1.6 | 6 |
| 21 | Homochirality: A Prerequisite or Consequence of Life?. Advances in Astrobiology and Biogeophysics, 2021, , 87-115. | 0.6 | 6 |
| 22 | Chiral fermion asymmetry in high-energy plasma simulations. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 106-129. | 0.4 | 16 |
| 23 | f-mode strengthening from a localised bipolar subsurface magnetic field. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 196-212. | 0.4 | 4 |
| 24 | Convergence properties of detonation simulations. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 58-76. | 0.4 | 8 |
| 25 | Sensitivity to luminosity, centrifugal force, and boundary conditions in spherical shell convection. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 8-34. | 0.4 | 17 |
| 26 | The timestep constraint in solving the gravitational wave equations sourced by hydromagnetic turbulence. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 130-161. | 0.4 | 22 |
| 27 | Condensational and Collisional Growth of Cloud Droplets in a Turbulent Environment. Journals of the Atmospheric Sciences, 2020, 77, 337-353. | 0.6 | 17 |
| 28 | Application of a helicity proxy to edge-on galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4749-4759. | 1.6 | 3 |
| 29 | Piecewise quadratic growth during the 2019 novel coronavirus epidemic. Infectious Disease Modelling, 2020, 5, 681-690. | 1.2 | 24 |
| 30 | Primordial magnetic helicity evolution with a homogeneous magnetic field from inflation. Physical Review D, 2020, 102, . | 1.6 | 14 |
| 31 | Numerical simulations of gravitational waves from early-universe turbulence. Physical Review D, 2020, 102, . | 1.6 | 70 |
| 32 | The Turbulent Stress Spectrum in the Inertial and Subinertial Ranges. Astrophysical Journal, 2020, 892, 80. | 1.6 | 14 |
| 33 | Dynamo in Weakly Collisional Nonmagnetized Plasmas Impeded by Landau Damping of Magnetic Fields. Physical Review Letters, 2020, 124, 255102. | 2.9 | 13 |
| 34 | The nature of mean-field generation in three classes of optimal dynamos. Journal of Plasma Physics, 2020, 86, . | 0.7 | 6 |
| 35 | The time step constraint in radiation hydrodynamics. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 162-195. | 0.4 | 1 |
| 36 | Magnetic Helicity Dissipation and Production in an Ideal MHD Code. Astrophysical Journal, 2020, 889, 55. | 1.6 | 7 |

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| 37 | Turbulent viscosity and magnetic Prandtl number from simulations of isotropically forced turbulence. Astronomy and Astrophysics, 2020, 636, A93. | 2.1 | 7 |
| 38 | Helicity proxies from linear polarisation of solar active regions. Astronomy and Astrophysics, 2020, 641, A46. | 2.1 | 6 |
| 39 | On the Measurement of Handedness in Fermi Large Area Telescope Data. Astrophysical Journal, 2020, 898, 124. | 1.6 | 6 |
| 40 | Hall Cascade with Fractional Magnetic Helicity in Neutron Star Crusts. Astrophysical Journal, 2020, 901, 18. | 1.6 | 13 |
| 41 | On the Existence of Shear-current Effects in Magnetized Burgulence. Astrophysical Journal, 2020, 905, 179. | 1.6 | 5 |
| 42 | Hemispheric Handedness in the Galactic Synchrotron Polarization Foreground. Astrophysical Journal Letters, 2020, 896, L14. | 3.0 | 3 |
| 43 | Ambipolar diffusion in large Prandtl number turbulence. Monthly Notices of the Royal Astronomical Society, 2019, 487, 2673-2684. | 1.6 | 7 |
| 44 | The Limited Roles of Autocatalysis and Enantiomeric Cross-Inhibition in Achieving Homochirality in Dilute Systems. Origins of Life and Evolution of Biospheres, 2019, 49, 49-60. | 0.8 | 11 |
| 45 | Spectral Magnetic Helicity of Solar Active Regions between 2006 and 2017. Astrophysical Journal, 2019, 882, 80. | 1.6 | 8 |
| 46 | Cloud-droplet growth due to supersaturation fluctuations in stratiform clouds. Atmospheric Chemistry and Physics, 2019, 19, 639-648. | 1.9 | 15 |
| 47 | Is there a left-handed magnetic field in the solar neighborhood?. Astronomy and Astrophysics, 2019, 621, A97. | 2.1 | 16 |
| 48 | E and B Polarizations from Inhomogeneous and Solar Surface Turbulence. Astrophysical Journal, 2019, 870, 87. | 1.6 | 12 |
| 49 | Effects of a subadiabatic layer on convection and dynamos in spherical wedge simulations. Geophysical and Astrophysical Fluid Dynamics, 2019, 113, 149-183. | 0.4 | 21 |
| 50 | Magnetic field evolution in solar-type stars. Proceedings of the International Astronomical Union, 2019, 15, 169-180. | 0.0 | 3 |
| 51 | Reversed Dynamo at Small Scales and Large Magnetic Prandtl Number. Astrophysical Journal, 2019, 879, 57. | 1.6 | 19 |
| 52 | Energetics of turbulence generated by chiral MHD dynamos. Geophysical and Astrophysical Fluid Dynamics, 2019, 113, 107-130. | 0.4 | 14 |
| 53 | Magnetic bipoles in rotating turbulence with coronal envelope. Astronomy and Astrophysics, 2019, 621, A61. | 2.1 | 1 |
| 54 | Dynamo effect in decaying helical turbulence. Physical Review Fluids, 2019, 4, . | 1.0 | 23 |

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| 55 | A Global Two-scale Helicity Proxy from Ï€-ambiguous Solar Magnetic Fields. Astrophysical Journal, 2019, 883, 119. | 1.6 | 8 |
| 56 | Strong nonlocality variations in a spherical meanâ€field dynamo. Astronomische Nachrichten, 2018, 339, 118-126. | 0.6 | 8 |
| 57 | Enhanced Stellar Activity for Slow Antisolar Differential Rotation?. Astrophysical Journal Letters, 2018, 855, L22. | 3.0 | 24 |
| 58 | Magnetic helicity and fluxes in an inhomogeneous Î±<sup>2</sup> dynamo. Astronomische Nachrichten, 2018, 339, 631-640. | 0.6 | 5 |
| 59 | Large-scale dynamos in rapidly rotating plane layer convection. Astronomy and Astrophysics, 2018, 612, A97. | 2.1 | 16 |
| 60 | Bihelical Spectrum of Solar Magnetic Helicity and Its Evolution. Astrophysical Journal, 2018, 863, 182. | 1.6 | 18 |
| 61 | Laminar and Turbulent Dynamos in Chiral Magnetohydrodynamics. II. Simulations. Astrophysical Journal, 2018, 858, 124. | 1.6 | 56 |
| 62 | Crossâ€helically forced and decaying hydromagnetic turbulence. Astronomische Nachrichten, 2018, 339, 641-646. | 0.6 | 1 |
| 63 | Spontaneous flux concentrations from the negative effective magnetic pressure instability beneath a radiative stellar surface. Astronomy and Astrophysics, 2018, 609, A99. | 2.1 | 5 |
| 64 | Turbulent transport coefficients in spherical wedge dynamo simulations of solar-like stars. Astronomy and Astrophysics, 2018, 609, A51. | 2.1 | 50 |
| 65 | Magnetic Helicity from Multipolar Regions on the Solar Surface. Astrophysical Journal, 2018, 869, 3. | 1.6 | 10 |
| 66 | Magnetic Helicity Reversal in the Corona at Small Plasma Beta. Astrophysical Journal, 2018, 869, 2. | 1.6 | 8 |
| 67 | Compressibility in turbulent magnetohydrodynamics and passive scalar transport: mean-field theory. Journal of Plasma Physics, 2018, 84, . | 0.7 | 12 |
| 68 | Transition from axi- to nonaxisymmetric dynamo modes in spherical convection models of solar-like stars. Astronomy and Astrophysics, 2018, 616, A160. | 2.1 | 48 |
| 69 | Advances in mean-field dynamo theory and applications to astrophysical turbulence. Journal of Plasma Physics, 2018, 84, . | 0.7 | 55 |
| 70 | Magnetism in the Early Universe. Proceedings of the International Astronomical Union, 2018, 14, 295-298. | 0.0 | 2 |
| 71 | Smallâ€scale dynamos in simulations of stratified turbulent convection. Astronomische Nachrichten, 2018, 339, 127-133. | 0.6 | 12 |
| 72 | Solar Kinetic Energy and Cross Helicity Spectra. Astrophysical Journal Letters, 2018, 862, L17. | 3.0 | 9 |

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| 73 | Varying the forcing scale in low Prandtl number dynamos. Monthly Notices of the Royal Astronomical Society, 2018, 479, 2827-2833. | 1.6 | 15 |
| 74 | Statistical properties of scale-invariant helical magnetic fields and applications to cosmology. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 034-034. | 1.9 | 16 |
| 75 | Effect of Turbulence on Collisional Growth of Cloud Droplets. Journals of the Atmospheric Sciences, 2018, 75, 3469-3487. | 0.6 | 14 |
| 76 | The Global Solar Dynamo. Space Science Reviews, 2017, 210, 367-395. | 3.7 | 51 |
| 77 | Two-scale Analysis of Solar Magnetic Helicity. Astrophysical Journal, 2017, 836, 21. | 1.6 | 22 |
| 78 | Classes of Hydrodynamic and Magnetohydrodynamic Turbulent Decay. Physical Review Letters, 2017, 118, 055102. | 2.9 | 101 |
| 79 | Eulerian and L agrangian approaches to multidimensional condensation and collection. Journal of Advances in Modeling Earth Systems, 2017, 9, 1116-1137. | 1.3 | 22 |
| 80 | The contribution of kinetic helicity to turbulent magnetic diffusivity. Astronomische Nachrichten, 2017, 338, 790-793. | 0.6 | 5 |
| 81 | The Turbulent Chiral Magnetic Cascade in the Early Universe. Astrophysical Journal Letters, 2017, 845, L21. | 3.0 | 70 |
| 82 | Laminar and Turbulent Dynamos in Chiral Magnetohydrodynamics. I. Theory. Astrophysical Journal, 2017, 846, 153. | 1.6 | 64 |
| 83 | Evolution of Co-existing Long and Short Period Stellar Activity Cycles. Astrophysical Journal, 2017, 845, 79. | 1.6 | 63 |
| 84 | Convection-driven spherical shell dynamos at varying Prandtl numbers. Astronomy and Astrophysics, 2017, 599, A4. | 2.1 | 39 |
| 85 | Sharp magnetic structures from dynamos with density stratification. Monthly Notices of the Royal Astronomical Society, 2017, , stx148. | 1.6 | 2 |
| 86 | Evolution of hydromagnetic turbulence from the electroweak phase transition. Physical Review D, 2017, 96, . | 1.6 | 70 |
| 87 | Enhancement of Small-scale Turbulent Dynamo by Large-scale Shear. Astrophysical Journal Letters, 2017, 850, L8. | 3.0 | 11 |
| 88 | Scale-invariant helical magnetic field evolution and the duration of inflation. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 002-002. | 1.9 | 22 |
| 89 | Extended Subadiabatic Layer in Simulations of Overshooting Convection. Astrophysical Journal Letters, 2017, 845, L23. | 3.0 | 44 |
| 90 | Compensating Faraday Depolarization by Magnetic Helicity in the Solar Corona. Astrophysical Journal Letters, 2017, 845, L15. | 3.0 | 6 |

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| 91 | Analytic solution of an oscillatory migratoryÎ±<sup>2</sup>stellar dynamo. Astronomy and Astrophysics, 2017, 598, A117. | 2.1 | 5 |
| 92 | Robustness of oscillatoryÎ±<sup>2</sup>dynamos in spherical wedges. Astronomy and Astrophysics, 2016, 593, A134. | 2.1 | 9 |
| 93 | Hydraulic effects in a radiative atmosphere with ionization. Astronomy and Astrophysics, 2016, 587, A90. | 2.1 | 5 |
| 94 | Influence of a coronal envelope as a free boundary to global convective dynamo simulations. Astronomy and Astrophysics, 2016, 596, A115. | 2.1 | 27 |
| 95 | Magnetic concentrations in stratified turbulence: the negative effective magnetic pressure instability. New Journal of Physics, 2016, 18, 125011. | 1.2 | 20 |
| 96 | Multiple dynamo modes as a mechanism for long-term solar activity variations. Astronomy and Astrophysics, 2016, 589, A56. | 2.1 | 68 |
| 97 | Magnetic flux concentrations from turbulent stratified convection. Astronomy and Astrophysics, 2016, 588, A150. | 2.1 | 23 |
| 98 | HIGH-WAVENUMBER SOLAR f-MODE STRENGTHENING PRIOR TO ACTIVE REGION FORMATION. Astrophysical Journal, 2016, 832, 120. | 1.6 | 13 |
| 99 | The evolution of primordial magnetic fields since their generation. Physica Scripta, 2016, 91, 104008. | 1.2 | 21 |
| 100 | A unified large/small-scale dynamo in helical turbulence. Monthly Notices of the Royal Astronomical Society, 2016, 461, 240-247. | 1.6 | 29 |
| 101 | A New Twist in Simulating Solar Flares. Physics Magazine, 2016, 9, . | 0.1 | 0 |
| 102 | Large-scale flow generation by inhomogeneous helicity. Physical Review E, 2016, 93, 033125. | 0.8 | 34 |
| 103 | A new look at sunspot formation using theory and observations. Proceedings of the International Astronomical Union, 2016, 12, 46-59. | 0.0 | 5 |
| 104 | Turbulent reconnection of magnetic bipoles in stratified turbulence. Monthly Notices of the Royal Astronomical Society, 2016, 459, 4046-4056. | 1.6 | 14 |
| 105 | EVOLUTION OF MAGNETIC HELICITY AND ENERGY SPECTRA OF SOLAR ACTIVE REGIONS. Astrophysical Journal, 2016, 819, 146. | 1.6 | 23 |
| 106 | IS THE SMALL-SCALE MAGNETIC FIELD CORRELATED WITH THE DYNAMO CYCLE?. Astrophysical Journal, 2016, 816, 28. | 1.6 | 18 |
| 107 | The Global Solar Dynamo. Space Sciences Series of ISSI, 2016, , 367-395. | 0.0 | 4 |
| 108 | Bipolar region formation in stratified two-layer turbulence. Astronomy and Astrophysics, 2016, 589, A125. | 2.1 | 19 |

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| 109 | STELLAR MIXING LENGTH THEORY WITH ENTROPY RAIN. Astrophysical Journal, 2016, 832, 6. | 1.6 | 55 |
| 110 | COMMISSION 12: SOLAR RADIATION AND STRUCTURE. Proceedings of the International Astronomical Union, 2015, 11, 278-299. | 0.0 | 1 |
| 111 | Large-Eddy Simulations of Magnetohydrodynamic Turbulence in Heliophysics and Astrophysics. Space Science Reviews, 2015, 194, 97-137. | 3.7 | 56 |
| 112 | Dynamical quenching with nonâ€‐local Î± and downward pumping. Astronomische Nachrichten, 2015, 336, 91-96. | 0.6 | 2 |
| 113 | BIPOLAR MAGNETIC SPOTS FROM DYNAMOS IN STRATIFIED SPHERICAL SHELL TURBULENCE. Astrophysical Journal, 2015, 805, 166. | 1.6 | 14 |
| 114 | Properties of p and f modes in hydromagnetic turbulence. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3708-3722. | 1.6 | 6 |
| 115 | Nonhelical Inverse Transfer of a Decaying Turbulent Magnetic Field. Physical Review Letters, 2015, 114, 075001. | 2.9 | 113 |
| 116 | NEGATIVE MAGNETIC EDDY DIFFUSIVITIES FROM THE TEST-FIELD METHOD AND MULTISCALE STABILITY THEORY. Astrophysical Journal, 2015, 811, 135. | 1.6 | 9 |
| 117 | HYSTERESIS BETWEEN DISTINCT MODES OF TURBULENT DYNAMOS. Astrophysical Journal, 2015, 803, 95. | 1.6 | 17 |
| 118 | Simulations of Galactic Dynamos. Astrophysics and Space Science Library, 2015, , 529-555. | 1.0 | 6 |
| 119 | Magnetically controlled stellar differential rotation near the transition from solar to anti-solar profiles. Astronomy and Astrophysics, 2015, 576, A26. | 2.1 | 82 |
| 120 | Mean-field and direct numerical simulations of magnetic flux concentrations from vertical field. Astronomy and Astrophysics, 2014, 562, A53. | 2.1 | 26 |
| 121 | Quantifying the effect of turbulent magnetic diffusion on the growth rate of the magnetoâ^rotational instability. Astronomy and Astrophysics, 2014, 567, A139. | 2.1 | 6 |
| 122 | Magnetic flux concentrations in a polytropic atmosphere. Astronomy and Astrophysics, 2014, 564, A2. | 2.1 | 8 |
| 123 | Confirmation of bistable stellar differential rotation profiles. Astronomy and Astrophysics, 2014, 570, A43. | 2.1 | 80 |
| 124 | QUENCHING AND ANISOTROPY OF HYDROMAGNETIC TURBULENT TRANSPORT. Astrophysical Journal, 2014, 795, 16. | 1.6 | 30 |
| 125 | FANNING OUT OF THE SOLAR f -MODE IN THE PRESENCE OF NON-UNIFORM MAGNETIC FIELDS?. Astrophysical Journal Letters, 2014, 795, L8. | 3.0 | 8 |
| 126 | ON THE CAUSE OF SOLAR-LIKE EQUATORWARD MIGRATION IN GLOBAL CONVECTIVE DYNAMO SIMULATIONS. Astrophysical Journal Letters, 2014, 796, L12. | 3.0 | 46 |

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| 127 | AN AZIMUTHAL DYNAMO WAVE IN SPHERICAL SHELL CONVECTION. Astrophysical Journal Letters, 2014, 780, L22. | 3.0 | 27 |
| 128 | Traces of large-scale dynamo action in the kinematic stage. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2930-2940. | 1.6 | 27 |
| 129 | Mean-field dynamo action from delayed transport. Monthly Notices of the Royal Astronomical Society, 2014, 441, 116-126. | 1.6 | 16 |
| 130 | Î±effect in a turbulent liquid-metal plane Couette flow. Physical Review E, 2014, 89, 033009. | 0.8 | 4 |
| 131 | Evolution of the magnetic field generated by the Kelvin-Helmholtz instability. Physics of Plasmas, 2014, 21, . | 0.7 | 6 |
| 132 | Particle energization through time-periodic helical magnetic fields. Physical Review E, 2014, 89, 042919. | 0.8 | 4 |
| 133 | FARADAY SIGNATURE OF MAGNETIC HELICITY FROM REDUCED DEPOLARIZATION. Astrophysical Journal, 2014, 786, 91. | 1.6 | 28 |
| 134 | Magnetic flux concentrations from dynamo-generated fields. Astronomy and Astrophysics, 2014, 568, A112. | 2.1 | 15 |
| 135 | SUPERFLARE OCCURRENCE AND ENERGIES ON G-, K-, AND M-TYPE DWARFS. Astrophysical Journal, 2014, 792, 67. | 1.6 | 86 |
| 136 | Intense bipolar structures from stratified helical dynamos. Monthly Notices of the Royal Astronomical Society, 2014, 445, 761-769. | 1.6 | 25 |
| 137 | MAGNETIC HELICITY AND ENERGY SPECTRA OF A SOLAR ACTIVE REGION. Astrophysical Journal Letters, 2014, 784, L45. | 3.0 | 24 |
| 138 | MAGNETIC PRANDTL NUMBER DEPENDENCE OF THE KINETIC-TO-MAGNETIC DISSIPATION RATIO. Astrophysical Journal, 2014, 791, 12. | 1.6 | 55 |
| 139 | Near-polytropic stellar simulations with a radiative surface. Astronomy and Astrophysics, 2014, 571, A68. | 2.1 | 16 |
| 140 | Active Region Formation through the Negative Effective Magnetic Pressure Instability. Solar Physics, 2013, 287, 293-313. | 1.0 | 30 |
| 141 | Microphysics of Cosmic Ray Driven Plasma Instabilities. Space Science Reviews, 2013, 178, 201-232. | 3.7 | 63 |
| 142 | Astrophysical Hydromagnetic Turbulence. Space Science Reviews, 2013, 178, 163-200. | 3.7 | 101 |
| 143 | Coherent structures and the saturation of a nonlinear dynamo. Journal of Fluid Mechanics, 2013, 729, 309-329. | 1.4 | 29 |
| 144 | BIPOLAR MAGNETIC STRUCTURES DRIVEN BY STRATIFIED TURBULENCE WITH A CORONAL ENVELOPE. Astrophysical Journal Letters, 2013, 777, L37. | 3.0 | 42 |

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| 145 | EFFECTS OF ENHANCED STRATIFICATION ON EQUATORWARD DYNAMO WAVE PROPAGATION. Astrophysical Journal, 2013, 778, 41. | 1.6 | 106 |
| 146 | Yoshizawa's cross-helicity effect and its quenching. Geophysical and Astrophysical Fluid Dynamics, 2013, 107, 207-217. | 0.4 | 3 |
| 147 | A mean field dynamo from negative eddy diffusivity. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1651-1657. | 1.6 | 12 |
| 148 | SPOKE-LIKE DIFFERENTIAL ROTATION IN A CONVECTIVE DYNAMO WITH A CORONAL ENVELOPE. Astrophysical Journal, 2013, 778, 141. | 1.6 | 35 |
| 149 | Turbulent dynamos with advective magnetic helicity flux. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1686-1694. | 1.6 | 38 |
| 150 | Data assimilation for stratified convection. Monthly Notices of the Royal Astronomical Society, 2013, 433, 2278-2285. | 1.6 | 8 |
| 151 | SELF-ASSEMBLY OF SHALLOW MAGNETIC SPOTS THROUGH STRONGLY STRATIFIED TURBULENCE. Astrophysical Journal Letters, 2013, 776, L23. | 3.0 | 39 |
| 152 | CAN PLANETESIMALS FORM BY COLLISIONAL FUSION?. Astrophysical Journal, 2013, 773, 120. | 1.6 | 32 |
| 153 | Non-uniformity effects in the negative effective magnetic pressure instability. Physica Scripta, 2013, T155, 014027. | 1.2 | 2 |
| 154 | Evolution of primordial magnetic fields from phase transitions. Physical Review D, 2013, 87, . | 1.6 | 110 |
| 155 | Kinetic helicity needed to drive large-scale dynamos. Physical Review E, 2013, 87, 043104. | 0.8 | 15 |
| 156 | Oscillatory large-scale dynamos from Cartesian convection simulations. Geophysical and Astrophysical Fluid Dynamics, 2013, 107, 244-257. | 0.4 | 17 |
| 157 | Coronal influence on dynamos. Proceedings of the International Astronomical Union, 2013, 9, 134-137. | 0.0 | 4 |
| 158 | Surface flux concentrations in a sphericalÎ±<sup>2</sup>dynamo. Astronomy and Astrophysics, 2013, 556, A106. | 2.1 | 11 |
| 159 | NEW SCALING FOR THE ALPHA EFFECT IN SLOWLY ROTATING TURBULENCE. Astrophysical Journal, 2013, 762, 127. | 1.6 | 19 |
| 160 | Competition of rotation and stratification in flux concentrations. Astronomy and Astrophysics, 2013, 556, A83. | 2.1 | 19 |
| 161 | Helicity in Large-Scale Dynamo Simulations. Geophysical Monograph Series, 2013, , 65-73. | 0.1 | 4 |
| 162 | Astrophysical Hydromagnetic Turbulence. Space Sciences Series of ISSI, 2013, , 87-124. | 0.0 | 2 |

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| 163 | Microphysics of Cosmic Ray Driven Plasma Instabilities. Space Sciences Series of ISSI, 2013, , 125-156. | 0.0 | 1 |
| 164 | Lagrangian chaos in an ABC-forced nonlinear dynamo. Physica Scripta, 2012, 86, 018405. | 1.2 | 8 |
| 165 | Mean-field closure parameters for passive scalar turbulence. Physica Scripta, 2012, 86, 018406. | 1.2 | 3 |
| 166 | Detection of turbulent thermal diffusion of particles in numerical simulations. Physics of Fluids, 2012, 24, . | 1.6 | 18 |
| 167 | Magnetic twist: a source and property of space weather. Journal of Space Weather and Space Climate, 2012, 2, A11. | 1.1 | 21 |
| 168 | CATASTROPHIC QUENCHING IN Î±Î© DYNAMOS REVISITED. Astrophysical Journal, 2012, 748, 51. | 1.6 | 47 |
| 169 | Special issue on current research in astrophysical magnetism. Physica Scripta, 2012, 86, 010201. | 1.2 | 0 |
| 170 | MAGNETIC FIELDS FROM QCD PHASE TRANSITIONS. Astrophysical Journal, 2012, 759, 54. | 1.6 | 65 |
| 171 | CYCLIC MAGNETIC ACTIVITY DUE TO TURBULENT CONVECTION IN SPHERICAL WEDGE GEOMETRY. Astrophysical Journal Letters, 2012, 755, L22. | 3.0 | 149 |
| 172 | Topological constraints on magnetic field relaxation. Proceedings of the International Astronomical Union, 2012, 8, 353-357. | 0.0 | 0 |
| 173 | Flux concentrations in turbulent convection. Proceedings of the International Astronomical Union, 2012, 8, 283-288. | 0.0 | 1 |
| 174 | Solar-like differential rotation and equatorward migration in a convective dynamo with a coronal envelope. Proceedings of the International Astronomical Union, 2012, 8, 307-312. | 0.0 | 1 |
| 175 | Non-linear and chaotic dynamo regimes. Proceedings of the International Astronomical Union, 2012, 8, 387-398. | 0.0 | 0 |
| 176 | Ejections of Magnetic Structures Above a Spherical Wedge Driven by a Convective Dynamo with Differential Rotation. Solar Physics, 2012, 280, 299-319. | 1.0 | 20 |
| 177 | Spontaneous Formation of Magnetic Flux Concentrations in Stratified Turbulence. Solar Physics, 2012, 280, 321-333. | 1.0 | 31 |
| 178 | Current Status of Turbulent Dynamo Theory. Space Science Reviews, 2012, 169, 123-157. | 3.7 | 127 |
| 179 | Vorticity production and survival in viscous and magnetized cosmologies. Physical Review D, 2012, 85, . | 1.6 | 15 |
| 180 | Breakdown of chiral symmetry during saturation of the Tayler instability. Physical Review E, 2012, 86, 016313. | 0.8 | 22 |

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| 181 | Evolution of inflation-generated magnetic field through phase transitions. Physical Review D, 2012, 86, . | 1.6 | 38 |
| 182 | COSMIC-RAY CURRENT-DRIVEN TURBULENCE AND MEAN-FIELD DYNAMO EFFECT. Astrophysical Journal, 2012, 753, 6. | 1.6 | 40 |
| 183 | THE NEGATIVE EFFECTIVE MAGNETIC PRESSURE IN STRATIFIED FORCED TURBULENCE. Astrophysical Journal, 2012, 749, 179. | 1.6 | 40 |
| 184 | Mean-field transport in stratified and/or rotating turbulence. Astronomy and Astrophysics, 2012, 539, A35. | 2.1 | 27 |
| 185 | MRSA Variant in Companion Animals. Emerging Infectious Diseases, 2012, 18, 2017-2020. | 2.0 | 63 |
| 186 | Dynamics of saturated energy condensation in two-dimensional turbulence. Physical Review E, 2012, 85, 036315. | 0.8 | 21 |
| 187 | Properties of the negative effective magnetic pressure instability. Astronomische Nachrichten, 2012, 333, 95-100. | 0.6 | 25 |
| 188 | Transport of angular momentum and chemical species by anisotropic mixing in stellar radiative interiors. Astronomische Nachrichten, 2012, 333, 230-236. | 0.6 | 9 |
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