

Andrew Jackson

List of Publications by Year in descending order

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papers

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580821

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times ranked

449
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | 3-D analysis and interpretation of magnetotelluric data from the Aluto-Langano geothermal field, Ethiopia. <i>Geophysical Journal International</i> , 2015, 202, 1923-1948. | 2.4 | 76 |
| 2 | Performance benchmarks for a next generation numerical dynamo model. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1586-1607. | 2.5 | 66 |
| 3 | Precession-driven dynamos in a full sphere and the role of large scale cyclonic vortices. <i>Physics of Fluids</i> , 2016, 28, . | 4.0 | 54 |
| 4 | Full sphere hydrodynamic and dynamo benchmarks. <i>Geophysical Journal International</i> , 2014, 197, 119-134. | 2.4 | 41 |
| 5 | Taylor state dynamos found by optimal control: axisymmetric examples. <i>Journal of Fluid Mechanics</i> , 2018, 853, 647-697. | 3.4 | 37 |
| 6 | Experimental study of fluid flows in a precessing cylindrical annulus. <i>Physics of Fluids</i> , 2014, 26, . | 4.0 | 34 |
| 7 | An optimal Galerkin scheme to solve the kinematic dynamo eigenvalue problem in a full sphere. <i>Journal of Computational Physics</i> , 2010, 229, 8666-8683. | 3.8 | 27 |
| 8 | On magnetic energy instability in spherical stationary flows. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004, 460, 1453-1476. | 2.1 | 21 |
| 9 | Enumeration, orthogonality and completeness of the incompressible Coriolis modes in a sphere. <i>Journal of Fluid Mechanics</i> , 2015, 766, 468-498. | 3.4 | 21 |
| 10 | Magnetic reversals from planetary dynamo waves. <i>Nature</i> , 2016, 539, 551-554. | 27.8 | 21 |
| 11 | Variational data assimilation for the initial-value dynamo problem. <i>Physical Review E</i> , 2011, 84, 056321. | 2.1 | 20 |
| 12 | The optimal kinematic dynamo driven by steady flows in a sphere. <i>Journal of Fluid Mechanics</i> , 2018, 839, 1-32. | 3.4 | 18 |
| 13 | The structure of Taylor's constraint in three dimensions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008, 464, 3149-3174. | 2.1 | 16 |
| 14 | Scale separated low viscosity dynamos and dissipation within the Earth's core. <i>Scientific Reports</i> , 2018, 8, 12566. | 3.3 | 16 |
| 15 | Variational data assimilation for a forced, inertia-free magnetohydrodynamic dynamo model. <i>Geophysical Journal International</i> , 2014, 199, 1662-1676. | 2.4 | 15 |
| 16 | Characterization of columnar inertial modes in rapidly rotating spheres and spheroids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170181. | 2.1 | 15 |
| 17 | Optimal dynamo action by steady flows confined to a cube. <i>Journal of Fluid Mechanics</i> , 2015, 783, 23-45. | 3.4 | 14 |
| 18 | Geophysical inversion and optimal transport. <i>Geophysical Journal International</i> , 2022, 231, 172-198. | 2.4 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A comparison of numerical schemes to solve the magnetic induction eigenvalue problem in a spherical geometry. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2005, 99, 467-480. | 1.2 | 12 |
| 20 | Experimental and numerical study of electrically driven magnetohydrodynamic flow in a modified cylindrical annulus. I. Base flow. <i>Physics of Fluids</i> , 2015, 27, . | 4.0 | 12 |
| 21 | Transient magnetic energy growth in spherical stationary flows. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006, 462, 2457-2479. | 2.1 | 11 |
| 22 | A fully spectral methodology for magnetohydrodynamic calculations in a whole sphere. <i>Journal of Computational Physics</i> , 2016, 305, 403-422. | 3.8 | 11 |
| 23 | Electromagnetically driven zonal flows in a rapidly rotating spherical shell. <i>Journal of Fluid Mechanics</i> , 2013, 725, 428-445. | 3.4 | 10 |
| 24 | Experimental and numerical study of electrically driven magnetohydrodynamic flow in a modified cylindrical annulus. II. Instabilities. <i>Physics of Fluids</i> , 2015, 27, 084108. | 4.0 | 10 |
| 25 | Large-scale vortices and zonal flows in spherical rotating convection. <i>Journal of Fluid Mechanics</i> , 2021, 912, . | 3.4 | 10 |
| 26 | The evolution of a magnetic field subject to Taylor's constraint using a projection operator. <i>Geophysical Journal International</i> , 2011, 187, 690-704. | 2.4 | 9 |
| 27 | Propagation and reflection of diffusionless torsional waves in a sphere. <i>Geophysical Journal International</i> , 2016, 204, 1477-1489. | 2.4 | 7 |
| 28 | Plesio-geostrophy for Earth's core: I. Basic equations, inertial modes and induction. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200513. | 2.1 | 7 |
| 29 | A trio of simple optimized axisymmetric kinematic dynamos in a sphere. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190308. | 2.1 | 6 |
| 30 | Kinematic validation of a quasi-geostrophic model for the fast dynamics in the Earth's outer core. <i>Geophysical Journal International</i> , 2017, 210, 1772-1786. | 2.4 | 5 |
| 31 | The inverse problem of unpolarized infrared spectroscopy of geological materials: Estimation from noisy random sampling of a quadratic form. <i>American Mineralogist</i> , 2018, 103, 1176-1184. | 1.9 | 4 |
| 32 | Waves in the Earth's core. I. Mildly diffusive torsional oscillations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, . | 2.1 | 4 |
| 33 | Waves in the Earth's core. II. Magneto-Coriolis modes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, . | 2.1 | 4 |
| 34 | Optimal kinematic dynamos in a sphere. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190675. | 2.1 | 2 |
| 35 | Accurate and efficient Jones-Worland spectral transforms for planetary applications. , 2021, , . | | 2 |
| 36 | The Surface Expression of Deep Columnar Flows. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009039. | 2.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Large-scale vortices and zonal flows in spherical rotating convection “ CORRIGENDUM. Journal of Fluid Mechanics, 2021, 916, . | 3.4 | 1 |
| 38 | Low-cost Solutions for Velocimetry in Rotating and Opaque Fluid Experiments using Ultrasonic Time of Flight. Experimental Techniques, 2022, 46, 429-439. | 1.5 | 0 |
| 39 | Can a 1D mantle electrical conductivity model generate geomagnetic jerk differential time delays?. , 2007, , . | | 0 |