Emmanuel Dormy

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Ocean Waves in the South Pacific: Complementarity of SWIM and SAR Observations. Earth and Space Science, 2022, 9, . | 1.1 | 3 |
| 2 | New Observations From the SWIM Radar On-Board CFOSAT: Instrument Validation and Ocean Wave Measurement Assessment. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5-26. | 2.7 | 88 |
| 3 | Inertial wave activity during spin-down in a rapidly rotating penny shaped cylinder. Journal of Fluid Mechanics, 2021, 915, . | 1.4 | 0 |
| 4 | Weak branch and multimodal convection in rapidly rotating spheres at low Prandtl number. Physical Review Fluids, 2021, 6, . | 1.0 | 0 |
| 5 | The Vortex Method for Two-Dimensional Ideal Flows in Exterior Domains. SIAM Journal on Mathematical Analysis, 2020, 52, 3881-3961. | 0.9 | 5 |
| 6 | Community composition predicts photogrammetry-based structural complexity on coral reefs. Coral Reefs, 2020, 39, 967-975. | 0.9 | 24 |
| 7 | On the inertial wave activity during spin-down in a rapidly rotating penny shaped cylinder: aÂreduced model. Journal of Fluid Mechanics, 2020, 888, . | 1.4 | 1 |
| 8 | Des cyclones plus destructeurs�. Pourlascience Fr, 2020, Nº 518 - décembre, 60-69. | 0.0 | 0 |
| 9 | Magnetokinematic Preliminaries. , 2019, , 20-58. | | 0 |
| 10 | Advection, Distortion and Diffusion. , 2019, , 59-98. | | 0 |
| 11 | The Magnetic Field of the Earth and Planets. , 2019, , 99-120. | | 0 |
| 12 | Astrophysical Magnetic Fields. , 2019, , 121-142. | | 0 |
| 13 | Laminar Dynamo Theory. , 2019, , 145-184. | | 0 |
| 14 | Mean-Field Electrodynamics. , 2019, , 185-215. | | 0 |
| 15 | Nearly Axisymmetric Dynamos. , 2019, , 216-230. | | 0 |
| 16 | Solution of the Mean-Field Equations. , 2019, , 231-278. | | 0 |
| 17 | The Fast Dynamo. , 2019, , 279-296. | | 0 |
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Low-Dimensional Models of the Geodynamo. , 2019, , 299-314.

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|----|---|-----|-----------|
| 19 | Dynamic Equilibration. , 2019, , 315-355. | | Ο |
| 20 | The Geodynamo: Instabilities and Bifurcations. , 2019, , 356-395. | | 0 |
| 21 | Astrophysical dynamic models. , 2019, , 396-416. | | 0 |
| 22 | Helical Turbulence. , 2019, , 417-440. | | 0 |
| 23 | Magnetic Relaxation under Topological Constraints. , 2019, , 441-462. | | 0 |
| 24 | Magnetic Relaxation in a Low-Î ² Plasma. , 2019, , 463-481. | | 0 |
| 25 | La dynamo terrestre, un défi centenaire. Pourlascience Fr, 2019, Nº 505 - novembre, 40-49. | 0.0 | 0 |
| 26 | Three branches of dynamo action. Fluid Dynamics Research, 2018, 50, 011415. | 0.6 | 39 |
| 27 | Formation of eyes in large-scale cyclonic vortices. Physical Review Fluids, 2018, 3, . | 1.0 | 9 |
| 28 | Eye formation in rotating convection. Journal of Fluid Mechanics, 2017, 812, 890-904. | 1.4 | 12 |
| 29 | Rapid Oceanic Response to Tropical Cyclone Oli (2010) over the South Pacific. Journal of Physical Oceanography, 2017, 47, 471-483. | 0.7 | 2 |
| 30 | Spin-down in a rapidly rotating cylinder container with mixed rigid and stress-free boundary conditions. Journal of Fluid Mechanics, 2017, 818, 205-240. | 1.4 | 3 |
| 31 | Equatorial symmetry breaking and the loss of dipolarity in rapidly rotating dynamos. Geophysical and Astrophysical Fluid Dynamics, 2017, 111, 380-393. | 0.4 | 8 |
| 32 | Multiâ€stage high order semi‣agrangian schemes for incompressible flows in Cartesian geometries. International Journal for Numerical Methods in Fluids, 2016, 82, 879-892. | 0.9 | 2 |
| 33 | On the equatorial Ekman layer. Journal of Fluid Mechanics, 2016, 803, 395-435. | 1.4 | 12 |
| 34 | Strong-field spherical dynamos. Journal of Fluid Mechanics, 2016, 789, 500-513. | 1.4 | 73 |
| 35 | Astrophysical dynamos: the limit of vanishing diffusivity. Proceedings of the International Astronomical Union, 2015, 11, 727-729. | 0.0 | 0 |
| 36 | Dipolar dynamos in stratified systems. Monthly Notices of the Royal Astronomical Society, 2015, 448, 2055-2065. | 1.6 | 32 |

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|----|--|-----|-----------|
| 37 | Oscillatory Convection in Rotating Spherical Shells: Low Prandtl Number and Non-Slip Boundary Conditions. SIAM Journal on Applied Dynamical Systems, 2015, 14, 1787-1807. | 0.7 | 9 |
| 38 | Toward an asymptotic behaviour of the ABC dynamo. Europhysics Letters, 2015, 110, 14003. | 0.7 | 29 |
| 39 | Influence of the mass distribution on the magnetic field topology. Astronomy and Astrophysics, 2014, 567, A107. | 2.1 | 31 |
| 40 | Predictive scaling laws for spherical rotating dynamos. Geophysical Journal International, 2014, 198, 828-847. | 1.0 | 59 |
| 41 | Topology and field strength in spherical, anelastic dynamo simulations. Astronomy and Astrophysics, 2014, 564, A78. | 2.1 | 25 |
| 42 | Transition between viscous dipolar and inertial multipolar dynamos. Geophysical Research Letters, 2014, 41, 7115-7120. | 1.5 | 44 |
| 43 | Cowling, Thomas George. , 2014, , 476-478. | | Ο |
| 44 | The vortex method for 2D ideal flows in the exterior of a disk. Journées Équations Aux Dérivées Partielles, 2014, , 1-22. | 0.2 | 0 |
| 45 | Gilbert, William. , 2014, , 807-808. | | Ο |
| 46 | Axisymmetric and non-axisymmetric magnetostrophic MRI modes. Physics of the Earth and Planetary Interiors, 2013, 223, 21-31. | 0.7 | 30 |
| 47 | Intermittency in spherical Couette dynamos. Physical Review E, 2013, 87, . | 0.8 | 15 |
| 48 | Revisiting the ABC flow dynamo. Physics of Fluids, 2013, 25, . | 1.6 | 47 |
| 49 | Energy transfers during dynamo reversals. Europhysics Letters, 2013, 104, 69002. | 0.7 | 2 |
| 50 | Action of differential rotation on the large-scale magnetic field of stars and planets. , 2012, , . | | 0 |
| 51 | Bistability between Equatorial and Axial Dipoles during Magnetic Field Reversals. Physical Review Letters, 2012, 108, 234501. | 2.9 | 16 |
| 52 | DIPOLE COLLAPSE AND DYNAMO WAVES IN GLOBAL DIRECT NUMERICAL SIMULATIONS. Astrophysical Journal, 2012, 752, 121. | 1.6 | 99 |
| 53 | Mechanisms of planetary and stellar dynamos. Proceedings of the International Astronomical Union, 2012, 8, 163-173. | 0.0 | 2 |
| 54 | Oscillatory dynamos and their induction mechanisms. Astronomy and Astrophysics, 2011, 530, A140. | 2.1 | 54 |

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|----|---|-----|-----------|
| 55 | Weak- and strong-field dynamos: from the Earth to the stars. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 418, L133-L137. | 1.2 | 60 |
| 56 | Stability and bifurcation of planetary dynamo models. Journal of Fluid Mechanics, 2011, 688, 1-4. | 1.4 | 8 |
| 57 | Shear-layers in magnetohydrodynamic spherical Couette flow with conducting walls. Journal of Fluid Mechanics, 2010, 645, 145-185. | 1.4 | 14 |
| 58 | Morphology of field reversals in turbulent dynamos. Europhysics Letters, 2010, 90, 49001. | 0.7 | 50 |
| 59 | Simple Mechanism for Reversals of Earth's Magnetic Field. Physical Review Letters, 2009, 102, 144503. | 2.9 | 134 |
| 60 | THE DYNAMO BIFURCATION IN ROTATING SPHERICAL SHELLS. International Journal of Modern Physics B, 2009, 23, 5467-5482. | 1.0 | 98 |
| 61 | On the ill-posedness of the Prandtl equation. Journal of the American Mathematical Society, 2009, 23, 591-609. | 1.9 | 169 |
| 62 | Direct numerical simulations of the galactic dynamo in the kinematic growing phase. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 394, L84-L88. | 1.2 | 40 |
| 63 | Geomagnetism and the dynamo: where do we stand?. Comptes Rendus Physique, 2008, 9, 711-720. | 0.3 | 11 |
| 64 | Magnetostrophic MRI in the Earth's outer core. Geophysical Research Letters, 2008, 35, . | 1.5 | 20 |
| 65 | Effect of magnetic boundary conditions on the dynamo threshold of von Kármán swirling flows. Europhysics Letters, 2008, 82, 29001. | 0.7 | 48 |
| 66 | Time scales separation for dynamo action. Europhysics Letters, 2008, 81, 64002. | 0.7 | 30 |
| 67 | Relations between the dynamo region geometry and the magnetic behavior of stars and planets. Europhysics Letters, 2008, 83, 59001. | 0.7 | 53 |
| 68 | Bypassing Cowling's Theorem in Axisymmetric Fluid Dynamos. Physical Review Letters, 2008, 101, 144502. | 2.9 | 24 |
| 69 | Core, Boundary Layers. , 2007, , 111-116. | | 5 |
| 70 | Barlow, Peter (1776–1862). , 2007, , 40-41. | | 0 |
| 71 | Ekman layers near wavy boundaries. Journal of Fluid Mechanics, 2006, 565, 115. | 1.4 | 4 |
| 72 | The origin of the Earth's magnetic field: fundamental or environmental research?. Europhysics News, 2006, 37, 22-25. | 0.1 | 6 |

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|----|--|-----|-----------|
| 73 | Kinematic dynamos using constrained transport with high order Godunov schemes and adaptive mesh refinement. Journal of Computational Physics, 2006, 218, 44-67. | 1.9 | 83 |
| 74 | Dissipation mechanisms for convection in rapidly rotating spheres and the formation of banded structures. Physics of Fluids, 2006, 18, 068104. | 1.6 | 12 |
| 75 | On magnetic boundary conditions for non-spectral dynamo simulations. Geophysical and Astrophysical Fluid Dynamics, 2005, 99, 481-492. | 0.4 | 18 |
| 76 | Tracking geomagnetic impulses at the core–mantle boundary. Earth and Planetary Science Letters, 2005, 237, 300-309. | 1.8 | 21 |
| 77 | Time dependent β-convection in rapidly rotating spherical shells. Physics of Fluids, 2004, 16, 1603-1609. | 1.6 | 29 |
| 78 | An integro-differential formulation for magnetic induction in bounded domains: boundary element–finite volume method. Journal of Computational Physics, 2004, 197, 540-554. | 1.9 | 44 |
| 79 | Boundary layer instability at the top of the Earth's outer core. Journal of Computational and Applied Mathematics, 2004, 166, 123-131. | 1.1 | 6 |
| 80 | The onset of thermal convection in rotating spherical shells. Journal of Fluid Mechanics, 2004, 501, 43-70. | 1.4 | 181 |
| 81 | Asymmetric behavior of magnetic dip poles. Earth, Planets and Space, 2003, 55, 153-157. | 0.9 | 57 |
| 82 | A super-rotating shear layer in magnetohydrodynamic spherical Couette flow. Journal of Fluid Mechanics, 2002, 452, 263-291. | 1.4 | 36 |
| 83 | Instability of Ekman–Hartmann boundary layers, with application to the fluid flow near the core–mantle boundary. Physics of the Earth and Planetary Interiors, 2001, 123, 15-26. | 0.7 | 10 |
| 84 | Instability of Ekman–Hartmann boundary layers, with application to the fluid flow near the core–mantle boundary. Physics of the Earth and Planetary Interiors, 2001, 124, 283-294. | 0.7 | 11 |
| 85 | A numerical dynamo benchmark. Physics of the Earth and Planetary Interiors, 2001, 128, 25-34. | 0.7 | 224 |
| 86 | Numerical models of the geodynamo and observational constraints. Geochemistry, Geophysics, Geosystems, 2000, 1, n/a-n/a. | 1.0 | 147 |
| 87 | Stability of mixed Ekman-Hartmann boundary layers. Nonlinearity, 1999, 12, 181-199. | 0.6 | 43 |
| 88 | An Accurate Compact Treatment of Pressure for Colocated Variables. Journal of Computational Physics, 1999, 151, 676-683. | 1.9 | 8 |
| 89 | MHD flow in a slightly differentially rotating spherical shell, with conducting inner core, in a dipolar magnetic field. Earth and Planetary Science Letters, 1998, 160, 15-30. | 1.8 | 165 |
| 90 | Binary tree models of high-Reynolds-number turbulence. Physical Review E, 1997, 56, 1692-1698. | 0.8 | 11 |

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|----|--|-----|-----------|
| 91 | Numerical simulation of elastic wave propagation using a finite volume method. Journal of Geophysical Research, 1995, 100, 2123-2133. | 3.3 | 53 |