

Binod Sreenivasan

List of Publications by Year in descending order

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papers

774
citations

759233

12
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610901

24
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24
all docs

24
docs citations

24
times ranked

435
citing authors

#	ARTICLE	IF	CITATIONS
1	Melting of the Earth's inner core. <i>Nature</i> , 2011, 473, 361-363.	27.8	125
2	Correlation of Earth's magnetic field with lower mantle thermal and seismic structure. <i>Physics of the Earth and Planetary Interiors</i> , 2007, 162, 256-260.	1.9	95
3	Thermal core-mantle interaction: Exploring regimes for a "locked" dynamo action. <i>Physics of the Earth and Planetary Interiors</i> , 2007, 165, 83-92.	1.9	95
4	The role of inertia in the evolution of spherical dynamos. <i>Geophysical Journal International</i> , 2006, 164, 467-476.	2.4	87
5	Helicity generation and subcritical behaviour in rapidly rotating dynamos. <i>Journal of Fluid Mechanics</i> , 2011, 688, 5-30.	3.4	65
6	Azimuthal winds, convection and dynamo action in the polar regions of planetary cores. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2006, 100, 319-339.	1.2	54
7	Structure and dynamics of the polar vortex in the Earth's core. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	48
8	Dynamos with weakly convecting outer layers: implications for core-mantle boundary interaction. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2008, 102, 395-407.	1.2	35
9	On dynamo action produced by boundary thermal coupling. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 177, 130-138.	1.9	28
10	Experimental study of a vortex in a magnetic field. <i>Journal of Fluid Mechanics</i> , 2002, 464, 287-309.	3.4	25
11	The role of buoyancy in polarity reversals of the geodynamo. <i>Geophysical Journal International</i> , 2014, 199, 1698-1708.	2.4	21
12	Experimental study of the convection in a rotating tangent cylinder. <i>Journal of Fluid Mechanics</i> , 2018, 843, 355-381.	3.4	14
13	Confinement of rotating convection by a laterally varying magnetic field. <i>Journal of Fluid Mechanics</i> , 2017, 822, 590-616.	3.4	11
14	Onset of plane layer magnetoconvection at low Ekman number. <i>Physics of Fluids</i> , 2015, 27, 106602.	4.0	9
15	Damping of magnetohydrodynamic waves in a rotating fluid. <i>Journal of Fluid Mechanics</i> , 2017, 828, 867-905.	3.4	9
16	Little Earth Experiment: An instrument to model planetary cores. <i>Review of Scientific Instruments</i> , 2016, 87, 084502.	1.3	8
17	Dynamos driven by weak thermal convection and heterogeneous outer boundary heat flux. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 250, 35-45.	1.9	7
18	On the effect of laterally varying boundary heat flux on rapidly rotating spherical shell convection. <i>Physics of Fluids</i> , 2017, 29, 086602.	4.0	7

#	ARTICLE	IF	CITATIONS
19	Scale dependence of kinetic helicity and selection of the axial dipole in rapidly rotating dynamos. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	7
20	On the control of rapidly rotating convection by an axially varying magnetic field. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2015, 109, 567-586.	1.2	6
21	Response of Earth's magnetic field to large lower mantle heterogeneity. <i>Earth and Planetary Science Letters</i> , 2020, 549, 116507.	4.4	6
22	Evolution of forced magnetohydrodynamic waves in a stratified fluid. <i>Journal of Fluid Mechanics</i> , 2021, 922, .	3.4	6
23	Evolution of localized blobs of swirling or buoyant fluid with and without an ambient magnetic field. <i>Physical Review E</i> , 2007, 75, 026304.	2.1	4
24	Convection in a rapidly rotating cylindrical annulus with laterally varying boundary heat flux. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	2