

Binod Sreenivasan

List of Publications by Year in descending order

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24
papers

774
citations

759233

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610901

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g-index

24
all docs

24
docs citations

24
times ranked

435
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of forced magnetohydrodynamic waves in a stratified fluid. <i>Journal of Fluid Mechanics</i> , 2021, 922, .	3.4	6
2	Convection in a rapidly rotating cylindrical annulus with laterally varying boundary heat flux. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	2
3	Response of Earth's magnetic field to large lower mantle heterogeneity. <i>Earth and Planetary Science Letters</i> , 2020, 549, 116507.	4.4	6
4	Experimental study of the convection in a rotating tangent cylinder. <i>Journal of Fluid Mechanics</i> , 2018, 843, 355-381.	3.4	14
5	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
6	Confinement of rotating convection by a laterally varying magnetic field. <i>Journal of Fluid Mechanics</i> , 2017, 822, 590-616.	3.4	11
7	Damping of magnetohydrodynamic waves in a rotating fluid. <i>Journal of Fluid Mechanics</i> , 2017, 828, 867-905.	3.4	9
8	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
9	Little Earth Experiment: An instrument to model planetary cores. <i>Review of Scientific Instruments</i> , 2016, 87, 084502.	1.3	8
10	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
11	Onset of plane layer magnetoconvection at low Ekman number. <i>Physics of Fluids</i> , 2015, 27, 106602.	4.0	9
12	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
13	The role of buoyancy in polarity reversals of the geodynamo. <i>Geophysical Journal International</i> , 2014, 199, 1698-1708.	2.4	21
14	Helicity generation and subcritical behaviour in rapidly rotating dynamos. <i>Journal of Fluid Mechanics</i> , 2011, 688, 5-30.	3.4	65
15	Melting of the Earth's inner core. <i>Nature</i> , 2011, 473, 361-363.	27.8	125
16	On dynamo action produced by boundary thermal coupling. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 177, 130-138.	1.9	28
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Thermal core-mantle interaction: Exploring regimes for "locked" dynamo action. <i>Physics of the Earth and Planetary Interiors</i> , 2007, 165, 83-92.	1.9	95
21	The role of inertia in the evolution of spherical dynamos. <i>Geophysical Journal International</i> , 2006, 164, 467-476.	2.4	87
22	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
23	Structure and dynamics of the polar vortex in the Earth's core. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	48
24	Experimental study of a vortex in a magnetic field. <i>Journal of Fluid Mechanics</i> , 2002, 464, 287-309.	3.4	25