

Radostin D Simitev

List of Publications by Year in descending order

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47
papers

799
citations

567144

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526166

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51
times ranked

488
citing authors

#	ARTICLE	IF	CITATIONS
1	Conventional rigid 2D substrates cause complex contractile signals in monolayers of human induced pluripotent stem cell-derived cardiomyocytes. <i>Journal of Physiology</i> , 2022, 600, 483-507.	1.3	8
2	Electrophysiological heterogeneity in large populations of rabbit ventricular cardiomyocytes. <i>Cardiovascular Research</i> , 2022, 118, 3112-3125.	1.8	13
3	Regimes of thermo-compositional convection and related dynamos in rotating spherical shells. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2021, 115, 61-84.	0.4	6
4	Action potential propagation and block in a model of atrial tissue with myocyte-fibroblast coupling. <i>Mathematical Medicine and Biology</i> , 2021, 38, 106-131.	0.8	3
5	Onset of Inertial Magnetoconvection in Rotating Fluid Spheres. <i>Fluids</i> , 2021, 6, 41.	0.8	3
6	Addendum: Action potential propagation and block in a model of atrial tissue with myocyte-fibroblast coupling. <i>Mathematical Medicine and Biology</i> , 2021, 38, 292-298.	0.8	1
7	Electrophysiology of hiPSC-Cardiomyocytes Co-Cultured with HEK Cells Expressing the Inward Rectifier Channel. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6621.	1.8	3
8	Kelvin-Helmholtz instability and collapse of a twisted magnetic null point with anisotropic viscosity. <i>Astronomy and Astrophysics</i> , 2021, 650, A143.	2.1	3
9	On self and mutual winding helicity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 103, 106015.	1.7	3
10	The effect of anisotropic viscosity on the nonlinear MHD kink instability. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 83, 105131.	1.7	3
11	Effects of Shell Thickness on Cross-Helicity Generation in Convection-Driven Spherical Dynamos. <i>Fluids</i> , 2020, 5, 245.	0.8	2
12	The onset of thermo-compositional convection in rotating spherical shells. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2019, 113, 377-404.	0.4	5
13	Flows and dynamos in a model of stellar radiative zones. <i>Journal of Plasma Physics</i> , 2018, 84, .	0.7	1
14	Baroclinically-driven flows and dynamo action in rotating spherical fluid shells. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2017, 111, 369-379.	0.4	6
15	Performance benchmarks for a next generation numerical dynamo model. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1586-1607.	1.0	66
16	Semianalytical approach to criteria for ignition of excitation waves. <i>Physical Review E</i> , 2015, 92, 042917.	0.8	8
17	DYNAMO EFFECTS NEAR THE TRANSITION FROM SOLAR TO ANTI-SOLAR DIFFERENTIAL ROTATION. <i>Astrophysical Journal</i> , 2015, 810, 80.	1.6	26
18	Planetary Dynamos. , 2015, , 239-254.		6

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19	The magnetic structure of surges in small-scale emerging flux regions. <i>Astronomy and Astrophysics</i> , 2015, 576, A4.	2.1	21
20	A spherical shell numerical dynamo benchmark with pseudo-vacuum magnetic boundary conditions. <i>Geophysical Journal International</i> , 2014, 196, 712-723.	1.0	25
21	Full sphere hydrodynamic and dynamo benchmarks. <i>Geophysical Journal International</i> , 2014, 197, 119-134.	1.0	41
22	Quasi-geostrophic approximation of anelastic convection. <i>Journal of Fluid Mechanics</i> , 2014, 751, 216-227.	1.4	6
23	Solar cycle properties described by simple convection-driven dynamos. <i>Physica Scripta</i> , 2012, 86, 018407.	1.2	1
24	Bistable attractors in a model of convection-driven spherical dynamos. <i>Physica Scripta</i> , 2012, 86, 018409.	1.2	9
25	HOW FAR CAN MINIMAL MODELS EXPLAIN THE SOLAR CYCLE?. <i>Astrophysical Journal</i> , 2012, 749, 9.	1.6	13
26	Double-diffusive convection in a rotating cylindrical annulus with conical caps. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 186, 183-190.	0.7	9
27	Asymptotics of Conduction Velocity Restitution in Models of Electrical Excitation in the Heart. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 72-115.	0.9	14
28	Remarks on some typical assumptions in dynamo theory. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2011, 105, 234-247.	0.4	17
29	Bistability and hysteresis of dipolar dynamos generated by turbulent convection in rotating spherical shells. <i>Europhysics Letters</i> , 2009, 85, 19001.	0.7	97
30	Asymptotic Analysis and Analytical Solutions of a Model of Cardiac Excitation. <i>Bulletin of Mathematical Biology</i> , 2008, 70, 517-554.	0.9	12
31	Toroidal flux oscillation as possible cause of geomagnetic excursions and reversals. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 168, 237-243.	0.7	26
32	Reynolds stresses and mean fields generated by pure waves: applications to shear flows and convection in a rotating shell. <i>Journal of Fluid Mechanics</i> , 2008, 602, 303-326.	1.4	18
33	Planetary Dynamos. , 2007, , 281-298.		3
34	Can cellular convection in a rotating spherical shell maintain both global and local magnetic fields?. <i>International Journal of Geomagnetism and Aeronomy</i> , 2007, 7, .	0.2	1
35	Parameter dependences of convection-driven dynamos in rotating spherical fluid shells. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2006, 100, 341-361.	0.4	77
36	Conditions for Propagation and Block of Excitation in an Asymptotic Model of Atrial Tissue. <i>Biophysical Journal</i> , 2006, 90, 2258-2269.	0.2	24

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37	Generation of coupled global and local magnetic fields by a cellular MHD dynamo. Proceedings of the International Astronomical Union, 2006, 2, 482-487.	0.0	0
38	Dynamos of giant planets. Proceedings of the International Astronomical Union, 2006, 2, 467-474.	0.0	0
39	Asymptotic properties of mathematical models of excitability. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 1283-1298.	1.6	20
40	Prandtl-number dependence of convection-driven dynamos in rotating spherical fluid shells. Journal of Fluid Mechanics, 2005, 532, 365-388.	1.4	89
41	Convection in rotating spherical fluid shells and its dynamo states. The Fluid Mechanics of Astrophysics and Geophysics, 2005, , .	0.2	11
42	Inertial convection in rotating fluid spheres. Journal of Fluid Mechanics, 2004, 498, 23-30.	1.4	37
43	Patterns of convection in rotating spherical shells. New Journal of Physics, 2003, 5, 97-97.	1.2	50
44	Parameter Dependences of Convection Driven Spherical Dynamos. , 2003, , 15-35.		1
45	Convection in rotating spherical shells and its dynamo action. The Fluid Mechanics of Astrophysics and Geophysics, 2003, , 130-152.	0.2	5
46	Buoyancy Driven Convection in Rotating Spherical Shells and Its Dynamo Action. , 2002, , 12-34.		1
47	Flute and kink instabilities in a dynamically twisted flux tube with anisotropic plasma viscosity. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	0