

Th Gundrum

List of Publications by Year in descending order

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papers

717
citations

933447

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794594

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19
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19
docs citations

19
times ranked

375
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of a Flow Induced Magnetic Field Eigenmode in the Riga Dynamo Facility. Physical Review Letters, 2000, 84, 4365-4368.	7.8	256
2	Experimental Evidence for Magnetorotational Instability in a Taylor-Couette Flow under the Influence of a Helical Magnetic Field. Physical Review Letters, 2006, 97, 184502.	7.8	151
3	Experimental Evidence for a Transient Taylor Instability in a Cylindrical Liquid-Metal Column. Physical Review Letters, 2012, 108, 244501.	7.8	76
4	Experimental Evidence for Nonaxisymmetric Magnetorotational Instability in a Rotating Liquid Metal Exposed to an Azimuthal Magnetic Field. Physical Review Letters, 2014, 113, 024505.	7.8	63
5	Subcritical transition to turbulence of a precessing flow in a cylindrical vessel. Physics of Fluids, 2015, 27, .	4.0	23
6	Nonlinear Large Scale Flow in a Precessing Cylinder and Its Ability To Drive Dynamo Action. Physical Review Letters, 2018, 120, 024502.	7.8	22
7	Towards a precession driven dynamo experiment. Magnetohydrodynamics, 2015, 51, 275-284.	0.3	22
8	MULTIMAG – A MULTIpurpose MAGnetic system for physical modelling in magnetohydrodynamics. Flow Measurement and Instrumentation, 2009, 20, 241-251.	2.0	19
9	Contactless Inductive Bubble Detection in a Liquid Metal Flow. Sensors, 2016, 16, 63.	3.8	15
10	The DRESDYN project: liquid metal experiments on dynamo action and magnetorotational instability. Geophysical and Astrophysical Fluid Dynamics, 2019, 113, 51-70.	1.2	15
11	Inductive System for Reliable Magnesium Level Detection in a Titanium Reduction Reactor. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2089-2096.	2.1	11
12	Experimental investigation of the return flow instability in magnetized spherical Couette flows. Physics of Fluids, 2020, 32, .	4.0	11
13	Kinematic dynamo action of a precession-driven flow based on the results of water experiments and hydrodynamic simulations.. Geophysical and Astrophysical Fluid Dynamics, 2019, 113, 235-255.	1.2	9
14	Generating a tide-like flow in a cylindrical vessel by electromagnetic forcing. Physics of Fluids, 2020, 32, .	4.0	7
15	Instability of precession driven Kelvin modes: Evidence of a detuning effect. Physical Review Fluids, 2019, 4, .	2.5	6
16	Numerical simulations for the DRESDYN precession dynamo. Magnetohydrodynamics, 2015, 51, 293-302.	0.3	5
17	Experimental Validation of an Inductive System for Magnesium Level Detection in a Titanium Reduction Reactor. Sensors, 2020, 20, 6798.	3.8	2
18	Dynamic transitions of the magnetized spherical Couette flow between its base state and the return flow instability. IOP Conference Series: Materials Science and Engineering, 2022, 1223, 012004.	0.6	2

#	ARTICLE	IF	CITATIONS
19	Mode Conversion and Period Doubling in a Liquid Rubidium Alfvén-Wave Experiment with Coinciding Sound and Alfvén Speeds. Physical Review Letters, 2021, 127, 275001.	7.8	2