Krzysztof Andrzej Mizerski

List of Publications by Year
in descending order

35 papers	**300** citations	**9** h-index	**17** g-index
35 all docs	**35** docs citations	**35** times ranked	**235** citing authors

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#	Article	IF	Citations
1	Generalization of the Rotne–Prager–Yamakawa mobility and shear disturbance tensors. Journal of Fluid Mechanics, 2013, 731, .	3.4	90
2	Pinch dynamics in a low-β plasma. Fluid Dynamics Research, 2018, 50, 011401.	1.3	28
3	Dynamo generation of a magnetic field by decaying Lehnert waves in a highly conducting plasma. Geophysical and Astrophysical Fluid Dynamics, 2018, 112, 165-174.	1.2	27
4	The magnetoelliptic instability of rotating systems. Journal of Fluid Mechanics, 2009, 632, 401-430.	3.4	23
5	On the connection between the magneto-elliptic and magneto-rotational instabilities. Journal of Fluid Mechanics, 2012, 698, 358-373.	3.4	15
6	On the effect of mantle conductivity on the super-rotating jets near the liquid core surface. Physics of the Earth and Planetary Interiors, 2007, 160, 245-268.	1.9	11
7	SHORT-WAVELENGTH MAGNETIC BUOYANCY INSTABILITY. Astrophysical Journal, Supplement Series, 2013, 205, 16.	7.7	10
8	The Rotne-Prager-Yamakawa approximation for periodic systems in a shear flow. Journal of Chemical Physics, 2014, 140, 184103.	3.0	10
9	The effect of stratification and compressibility on anelastic convection in a rotating plane layer. Geophysical and Astrophysical Fluid Dynamics, 2011, 105, 566-585.	1.2	9
10	The mean electromotive force generated by elliptic instability. Journal of Fluid Mechanics, 2012, 707, 111-128.	3.4	9
11	Large-scale convective dynamos in a stratified rotating plane layer. Geophysical and Astrophysical Fluid Dynamics, 2013, 107, 218-243.	1.2	8
12	The influence of magnetic field on short-wavelength instability of Riemann ellipsoids. Physica D: Nonlinear Phenomena, 2011, 240, 1629-1635.	2.8	7
13	Large-Scale HydroMagnetic Dynamo by Lehnert Waves in Nonresistive Plasma. SIAM Journal on Applied Mathematics, 2018, 78, 1402-1421.	1.8	7
14	Elliptical Flow Instability in a Conducting Fluid Triggered by an External Magnetic Field. Physical Review Letters, 2013, 110, 104503.	7.8	6
15	Large-scale dynamo action driven by forced beating waves in a highly conducting plasma. Journal of Plasma Physics, 2018, 84, .	2.1	6
16	Foundations of Convection with Density Stratification. GeoPlanet: Earth and Planetary Sciences, 2021, , .	0.2	6
17	Renormalization group analysis of the magnetohydrodynamic turbulence and dynamo. Journal of Fluid Mechanics, 2021, 926, .	3.4	6
18	Fully developed anelastic convection with no-slip boundaries. Journal of Fluid Mechanics, 2022, 930, .	3.4	6

#	Article	IF	Citations
19	Renormalization Group Analysis of the Turbulent Hydromagnetic Dynamo: The Effect of Nonstationarity. Astrophysical Journal, Supplement Series, 2020, 251, 21.	7.7	5
20	Scale Selection in the Stratified Convection of the Solar Photosphere. Astrophysical Journal, 2019, 874, 103.	4.5	4
21	The Effect of Weak Resistivity and Weak Thermal Diffusion on Short-wavelength Magnetic Buoyancy Instability. Astrophysical Journal, Supplement Series, 2018, 235, 13.	7.7	2
22	Rigorous entropy formulation of the anelastic liquid equations in an ideal gas. Journal of Fluid Mechanics, 2017, 833, 677-686.	3.4	1
23	Possible Role of Non-Stationarity of Magnetohydrodynamic Turbulence in Understanding of Geomagnetic Excursions. Symmetry, 2021, 13, 1881.	2.2	1
24	The Oberbeck-Boussinesq Convection. GeoPlanet: Earth and Planetary Sciences, 2021, , 21-85.	0.2	1
25	Anelastic Convection. GeoPlanet: Earth and Planetary Sciences, 2021, , 87-197.	0.2	1
26	Nonlinear turbulent dynamo induced by fluctuations of the Lorentz force. Physical Review E, 2021, 104, L053102.	2.1	1
27	Compressible Ekman–Hartmann boundary layers. Geophysical and Astrophysical Fluid Dynamics, 2010, 104, 403-418.	1.2	0
28	The short-wavelength instability of magnetically buoyant layer. Journal of Physics: Conference Series, 2011, 318, 072033.	0.4	0
29	The detrimental effect of hydrodynamic interactions on the process of Brownian flocculation in shear flow. Journal of Fluid Mechanics, 2014, 748, 328-349.	3.4	0
30	Short-time self-diffusion, collective diffusion and effective viscosity of dilute hard sphere magnetic suspensions. Journal of Fluid Mechanics, 2016, 791, 237-259.	3.4	0
31	Large scale EMF in current sheets induced by tearing modes. Fluid Dynamics Research, 2018, 50, 011402.	1.3	0
32	Renormalization group analysis of the turbulent hydromagnetic dynamo: Effect of anisotropy. Applied Mathematics and Computation, 2021, 405, 126252.	2.2	0
33	Possible risk resulting from the recent decay of the dipolar component of the terrestrial magnetic field. Acta Geophysica, 2021, 69, 47-52.	2.0	0
34	The Equations of Hydrodynamics. GeoPlanet: Earth and Planetary Sciences, 2021, , 1-20.	0.2	0
35	Inclusion of Compositional Effects. GeoPlanet: Earth and Planetary Sciences, 2021, , 199-246.	0.2	0