

# Leonid Kitchatinov

## List of Publications by Year in descending order

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23  
papers

511  
citations

840776  
11  
h-index

713466  
21  
g-index

23  
all docs

23  
docs citations

23  
times ranked

220  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hall instability: origin, properties and asymptotic theory for its tearing mode. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	2
2	Dynamo Model for North-South Asymmetry of Solar Activity. <i>Astrophysical Journal</i> , 2021, 919, 36.	4.5	12
3	Subcritical dynamo and hysteresis in a Babcock-Leighton type kinematic dynamo model. <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 266.	1.7	3
4	Stability of a force-free Hall equilibrium and release of magnetic energy. <i>Astronomische Nachrichten</i> , 2019, 340, 475-482.	1.2	4
5	Modelling differential rotation of red giants: the case of the evolved sun. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 490, L71-L75.	3.3	0
6	Can the long-term hemispheric asymmetry of solar activity result from fluctuations in dynamo parameters?. <i>Astronomy and Astrophysics</i> , 2019, 625, A37.	5.1	12
7	How supercritical are stellar dynamos, or why do old main-sequence dwarfs not obey gyrochronology?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 3124-3130.	4.4	25
8	Instability of magnetized and differentially rotating stellar radiation zones with high magnetic Mach number. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 3004-3010.	4.4	3
9	Helicity and dynamo action in magnetized stellar radiation zones. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 2267-2276.	4.4	19
10	Suppression of the large-scale Lorentz force by turbulence. <i>Astronomische Nachrichten</i> , 2012, 333, 84-91.	1.2	9
11	Cross Helicity and Turbulent Magnetic Diffusivity in the Solar Convection Zone. <i>Solar Physics</i> , 2011, 269, 3-12.	2.5	35
12	The kink-type instability of toroidal stellar magnetic fields with thermal diffusion. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2010, 104, 273-285.	1.2	11
13	Magnetic pinch-type instability in stellar radiative zones. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 167-176.	0.0	0
14	Structure and stability of the magnetic solar tachocline. <i>New Journal of Physics</i> , 2007, 9, 302-302.	2.9	21
15	Negative Reynolds stress generation by accretion disc convection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 332, 435-440.	4.4	4
16	Global vortex systems on standard accretion disc surfaces. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 303, 792-796.	4.4	2
17	Global magnetic shear instability in spherical geometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 1997, 286, 757-764.	4.4	25
18	The influence of turbulence on the solar p-mode frequencies I. Free-mode approximation. <i>Astronomische Nachrichten</i> , 1997, 318, 173-181.	1.2	3

#	ARTICLE	IF	CITATIONS
19	The slender solar tachocline: a magnetic model. <i>Astronomische Nachrichten</i> , 1997, 318, 273-279.	1.2	91
20	The rotational quenching of the rotation-induced kinetic alpha-effect. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1996, 83, 119-133.	1.2	11
21	The Internal Solar Rotation in Its Spin-down History. <i>Astrophysical Journal</i> , 1996, 466, 1078.	4.5	48
22	Dynamo models with magnetic diffusivity-quenching. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1994, 78, 247-259.	1.2	17
23	Turbulent viscosity, magnetic diffusivity, and heat conductivity under the influence of rotation and magnetic field. <i>Astronomische Nachrichten</i> , 1994, 315, 157-170.	1.2	154