Michael Ruderman

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119 3,127 30 51 h-index g-index citations papers 126 3,452 3.7 5.79 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
119	Reflection and Evolution of Torsional Alfvii Pulses in Zero-beta Flux Tubes. <i>Astrophysical Journal</i> , 2021 , 922, 118	4.7	O
118	Nonlinear Damping of Standing Kink Waves Computed With ElsBser Variables. <i>Astrophysical Journal</i> , 2021 , 910, 58	4.7	8
117	Propagation of Torsional AlfvE Pulses in Zero-beta Flux Tubes. <i>Astrophysical Journal</i> , 2021 , 911, 39	4.7	2
116	Resonant Instability of Kink Oscillations in Magnetic Flux Tubes with Siphon Flow. <i>Solar Physics</i> , 2021 , 296, 1	2.6	O
115	Significance of Cooling Effect on Comprehension of Kink Oscillations of Coronal Loops. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 7,	3.8	3
114	Decayless Kink Oscillations Excited by Random Driving: Motion in Transitional Layer. <i>Solar Physics</i> , 2021 , 296, 1	2.6	3
113	Excitation of decayless kink oscillations by random motion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 ,	4.3	5
112	Resonant damping and instability of propagating kink waves in flowing and twisted magnetic flux tubes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 496, 67-79	4.3	5
111	Quasi-parallel propagation of solitary waves in magnetised non-relativistic electron positron plasmas. <i>Journal of Plasma Physics</i> , 2020 , 86,	2.7	2
110	Formation of Chromospheric Spicules in Magnetic Bright Points: An Analytical Approach Using Cartesian Slab Geometry. <i>Astrophysical Journal</i> , 2020 , 905, 168	4.7	3
109	Resonant Damping of Propagating Kink Waves in Non-stationary, Longitudinally Stratified, and Expanding Solar Waveguides. <i>Frontiers in Astronomy and Space Sciences</i> , 2019 , 6,	3.8	5
108	Effect of siphon flow on resonant damping of kink oscillations in magnetic flux tubes. <i>Astronomy and Astrophysics</i> , 2019 , 631, A31	5.1	9
107	An Analytical Model of the KelvinHelmholtz Instability of Transverse Coronal Loop Oscillations. <i>Astrophysical Journal</i> , 2019 , 870, 108	4.7	17
106	Negative energy standing wave instability in the presence of flow. <i>Journal of Plasma Physics</i> , 2018 , 84,	2.7	5
105	Phase mixing of AlfvE waves in axisymmetric non-reflective magnetic plasma configurations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 2289-2301	4.3	5
104	Resonant damping of kink oscillations of thin expanding magnetic tubes. <i>Astronomy and Astrophysics</i> , 2018 , 615, A156	5.1	8
103	Rayleigh Taylor instability of a magnetic tangential discontinuity in the presence of oscillating gravitational acceleration. <i>Astronomy and Astrophysics</i> , 2018 , 615, A130	5.1	1

(2015-2018)

102	Resonant damping of kink oscillations of thin cooling and expanding coronal magnetic loops. <i>Astronomy and Astrophysics</i> , 2018 , 619, A173	5.1	9	
101	Propagation of leaky surface waves on contact magnetohydrodynamic discontinuities in incompressible plasmas. <i>Physics of Plasmas</i> , 2018 , 25, 122107	2.1	2	
100	Phase mixing of AlfvB waves in two-dimensional magnetic plasma configurations with exponentially decreasing density. <i>Astronomy and Astrophysics</i> , 2018 , 620, A44	5.1	4	
99	Rayleigh-Taylor instabilities with sheared magnetic fields in partially ionised plasmas. <i>Astronomy and Astrophysics</i> , 2018 , 609, A23	5.1	7	
98	Phase mixing of AlfvB waves propagating in non-reflective magnetic plasma configurations. <i>Astronomy and Astrophysics</i> , 2017 , 600, A122	5.1	6	
97	Kink oscillations of cooling coronal loops with variable cross-section. <i>Astronomy and Astrophysics</i> , 2017 , 602, A50	5.1	12	
96	Compressibility Effect on the Rayleigh Taylor Instability with Sheared Magnetic Fields. <i>Solar Physics</i> , 2017 , 292, 1	2.6	7	
95	Nonlinear Generation of Fluting Perturbations by Kink Mode. <i>Solar Physics</i> , 2017 , 292, 111	2.6	7	
94	On the Evolution of Pre-Flare Patterns of a 3-Dimensional Model of AR 11429. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 294-297	0.1	1	
93	On the Ratio of Periods of the Fundamental Harmonic and First Overtone of Magnetic Tube Kink Oscillations. <i>Solar Physics</i> , 2016 , 291, 1143-1157	2.6	21	
92	Damping of prominence longitudinal oscillations due to mass accretion. <i>Astronomy and Astrophysics</i> , 2016 , 591, A131	5.1	26	
91	Nonlinear radial oscillations of coronal loops. <i>Geomagnetism and Aeronomy</i> , 2016 , 56, 1040-1044	0.9	3	
90	Possible Cross-Section for a Coronal Loop of Given Shape?. <i>Solar Physics</i> , 2015 , 290, 423-435	2.6	4	
89	Non-reflective Propagation of Kink Pulses in Magnetic Waveguides in the Solar Atmosphere. <i>Solar Physics</i> , 2015 , 290, 1323-1335	2.6	6	
88	PROPAGATION AND DISPERSION OF SAUSAGE WAVE TRAINS IN MAGNETIC FLUX TUBES. Astrophysical Journal, 2015 , 806, 56	4.7	32	
87	Nonlinear fast sausage waves in homogeneous magnetic flux tubes. <i>Journal of Plasma Physics</i> , 2015 , 81,	2.7	17	
86	Standing kink oscillations of thin twisted magnetic tubes with continuous equilibrium magnetic field. <i>Astronomy and Astrophysics</i> , 2015 , 580, A57	5.1	15	
85	Propagating kink waves in thin twisted magnetic tubes with continuous equilibrium magnetic field. <i>Astronomy and Astrophysics</i> , 2015 , 575, A130	5.1	30	

84	Rayleigh-Taylor instability of a magnetic tangential discontinuity in the presence of flow. <i>Astronomy and Astrophysics</i> , 2015 , 580, A37	5.1	6
83	Nonlinear Kink Oscillations of Coronal Magnetic Loops. <i>Solar Physics</i> , 2014 , 289, 1999-2020	2.6	11
82	ELECTRON THERMAL CONDUCTION AS A POSSIBLE PHYSICAL MECHANISM TO MAKE THE INNER HELIOSHEATH THINNER. <i>Astrophysical Journal Letters</i> , 2014 , 795, L7	7.9	20
81	The structure of fast sausage waves in current-carrying coronal loops. <i>Annales Geophysicae</i> , 2014 , 32, 1189-1193	2	15
80	PROPAGATION AND DISPERSION OF TRANSVERSE WAVE TRAINS IN MAGNETIC FLUX TUBES. Astrophysical Journal, 2014 , 789, 48	4.7	25
79	Kink Oscillations of Thin Magnetic Tubes with Discontinuous Density. <i>Solar Physics</i> , 2014 , 289, 2473-248	35 .6	
78	Non-reflective Propagation of Kink Waves in Coronal Magnetic Loops. <i>Solar Physics</i> , 2013 , 286, 417-426	2.6	8
77	On the effect of transport coefficient anisotropy on the plasma flow in heliospheric interface. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 434, 3202-3207	4.3	7
76	Effect of stratification on the frequency of bounded Rossby modes over a non-flat bottom. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2013 , 107, 541-563	1.4	
75	Damping of coronal loop kink oscillations due to mode conversion. <i>Astronomy and Astrophysics</i> , 2013 , 555, A27	5.1	43
74	Fast Sausage Waves in Current-Carrying Coronal Loops. <i>Solar Physics</i> , 2012 , 280, 153-163	2.6	30
73	Observations of ubiquitous compressive waves in the Sun's chromosphere. <i>Nature Communications</i> , 2012 , 3, 1315	17.4	128
72	Damped kink oscillations of flowing prominence threads. <i>Astronomy and Astrophysics</i> , 2012 , 546, A82	5.1	13
71	Coronal Seismology Using Transverse Oscillations of Non-planar Coronal Loops. <i>Solar Physics</i> , 2012 , 278, 177-185	2.6	4
70	Torsional Alfv® waves: magneto-seismology in static and dynamic coronal plasmas. <i>Astronomy and Astrophysics</i> , 2011 , 534, A27	5.1	14
69	Resonant damping of kink oscillations of cooling coronal magnetic loops. <i>Astronomy and Astrophysics</i> , 2011 , 534, A78	5.1	30
68	Resonantly damped oscillations of two coronal loops. <i>Astronomy and Astrophysics</i> , 2011 , 525, A4	5.1	8
67	Transverse Oscillations of Coronal Loops with Slowly Changing Density. <i>Solar Physics</i> , 2011 , 271, 41-54	2.6	35

66	Resonant MHD Waves in the Solar Atmosphere. Space Science Reviews, 2011, 158, 289-338	7.5	153
65	Nonlinear Effects in Resonant Layers in Solar and Space Plasmas. <i>Space Science Reviews</i> , 2011 , 158, 421	-459	6
64	MHD Waves and Instabilities in Space Plasma Flows. Space Science Reviews, 2011, 158, 505-523	7.5	11
63	Kink and fluting modes of stratified coronal magnetic loops with elliptical cross-sections. <i>Astronomy and Astrophysics</i> , 2011 , 527, A53	5.1	15
62	Transverse oscillations of non-planar coronal loops. <i>Astronomy and Astrophysics</i> , 2011 , 529, A33	5.1	8
61	The structure of the hydrodynamic plasma flow near the heliopause stagnation point. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 401, 607-612	4.3	7
60	The effect of density stratification on the transverse oscillations of two parallel coronal loops. <i>Astronomy and Astrophysics</i> , 2010 , 515, A33	5.1	11
59	Nonlinear propagating kink waves in thin magnetic tubes. <i>Physics of Plasmas</i> , 2010 , 17, 082108	2.1	39
58	Stability of MHD shear flows: Application to space physics. <i>Journal of Physics: Conference Series</i> , 2010 , 216, 012016	0.3	7
57	The Effect of Flows on Transverse Oscillations of Coronal Loops. <i>Solar Physics</i> , 2010 , 267, 377-391	2.6	35
56	On the vertical and horizontal transverse oscillations of curved coronal loops. <i>Astronomy and Astrophysics</i> , 2009 , 506, 885-893	5.1	13
55	Kinetic-Gasdynamic Modeling of the Heliospheric Interface. <i>Space Science Reviews</i> , 2009 , 146, 329-351	7.5	97
54	Transverse Oscillations of Coronal Loops. <i>Space Science Reviews</i> , 2009 , 149, 199-228	7.5	138
53	On the Convection in a Porous Medium with Inclined Temperature Gradient and Vertical Throughflow. Part I. Normal Modes. <i>Transport in Porous Media</i> , 2009 , 80, 137-151	3.1	25
52	On the Convection in a Porous Medium with Inclined Temperature Gradient and Vertical Throughflow. Part II. Absolute and Convective Instabilities, and Spatially Amplifying Waves. <i>Transport in Porous Media</i> , 2009 , 80, 153-172	3.1	24
51	Dynamics of modulationally unstable ion-acoustic wavepackets in plasmas with negative ions. <i>Journal of Plasma Physics</i> , 2008 , 74, 639-656	2.7	71
50	Parametric instabilities of circularly polarized small-amplitude Alfv® waves in Hall plasmas. <i>Journal of Plasma Physics</i> , 2008 , 74, 119-138	2.7	6
49	Transverse Oscillations of Longitudinally Stratified Coronal Loops with Variable Cross Section. <i>Astrophysical Journal</i> , 2008 , 686, 694-700	4.7	106

48	Transverse oscillations of two parallel coronal loops. Astronomy and Astrophysics, 2008, 485, 849-857	5.1	36
47	Resonantly damped oscillations of longitudinally stratified coronal loops. <i>Astronomy and Astrophysics</i> , 2007 , 463, 759-759	5.1	8
46	Nonaxisymmetric Oscillations of Thin Twisted Magnetic Tubes. <i>Solar Physics</i> , 2007 , 246, 119-131	2.6	60
45	Non-axisymmetric oscillations of thin twisted magnetic tubes. <i>Proceedings of the International Astronomical Union</i> , 2007 , 3, 344-350	0.1	
44	Absolute and convective instabilities of parallel propagating circularly polarized Alfv® waves: numerical results. <i>Astronomy and Astrophysics</i> , 2006 , 452, 641-646	5.1	7
43	Stability of an MHD shear flow with a piecewise linear velocity profile. <i>Astronomy and Astrophysics</i> , 2006 , 448, 1177-1184	5.1	7
42	Resonantly damped oscillations of longitudinally stratified coronal loops. <i>Astronomy and Astrophysics</i> , 2006 , 457, 1059-1070	5.1	78
41	Nonlinear waves in the solar atmosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006 , 364, 485-504	3	28
40	Leaky and non-leaky kink oscillations of magnetic flux tubes. <i>Journal of Plasma Physics</i> , 2006 , 72, 285	2.7	23
39	Comment on Note on the Initial Value Problem for Coronal Loop Kink WavesBy P. S. Cally. <i>Solar Physics</i> , 2006 , 237, 119-121	2.6	8
38	The geometry effect on transverse oscillations of coronal loops. <i>Astronomy and Astrophysics</i> , 2006 , 459, 241-244	5.1	36
37	Non-Axisymmetric Oscillations of Thin Prominence Fibrils. <i>Solar Physics</i> , 2005 , 229, 79-94	2.6	104
36	Absolute and Convective Instabilities of Circularly Polarized Alfvli Waves. <i>Space Science Reviews</i> , 2005 , 121, 287-297	7.5	2
35	Comment on Blow nonlinear waves in magnetic flux tubes[[Phys. Plasmas 11, 2256 (2004)]. <i>Physics of Plasmas</i> , 2005 , 12, 034701	2.1	23
34	Absolute and convective instabilities of parallel propagating circularly polarized AlfvII waves: Beat instability. <i>Physics of Plasmas</i> , 2005 , 12, 062103	2.1	7
33	Absolute and convective instabilities of parallel propagating circularly polarized AlfvE waves: Decay instability. <i>Physics of Plasmas</i> , 2004 , 11, 4178-4187	2.1	5
32	KelvinHelmholtz absolute and convective instabilities of, and signalling in, an inviscid fluidNiscous fluid configuration. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004 , 460, 847-874	2.4	13
31	The stability of parallel-propagating circularly polarized AlfvE waves revisited. <i>Journal of Plasma Physics</i> , 2004 , 70, 143-153	2.7	14

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30	Nonlinear Waves in the Magnetically Structured Solar Atmosphere. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2003 , 239-274		7
29	The resonant damping of oscillations of coronal loops with elliptic cross-sections. <i>Astronomy and Astrophysics</i> , 2003 , 409, 287-297	5.1	60
28	Propagation of solitons of the Derivative Nonlinear Schrdinger equation in a plasma with fluctuating density. <i>Physics of Plasmas</i> , 2002 , 9, 2940-2945	2.1	37
27	The Damping of Coronal Loop Oscillations. <i>Astrophysical Journal</i> , 2002 , 577, 475-486	4.7	382
26	The dynamics of current carriers in standing Alfvii waves: Parallel electric fields in the auroral acceleration region. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 19-1		32
25	The nature of convectively unstable waveguide mode disturbances on the magnetospheric flanks. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 14-1		9
24	DNLS equation for large-amplitude solitons propagating in an arbitrary direction in a high-[Hall plasma. <i>Journal of Plasma Physics</i> , 2002 , 67, 271-276	2.7	86
23	Interaction of sound waves with an inhomogeneous magnetized plasma in a strongly nonlinear resonant slow-wave layer. <i>Journal of Plasma Physics</i> , 2000 , 63, 43-77	2.7	10
22	Absolute and Convective Instability of Tangential Discontinuities in Viscous Fluids: Application to Heliopause. <i>Astrophysics and Space Science</i> , 2000 , 274, 327-341	1.6	15
21	Kelvin-Helmholtz instability on the magnetospheric flanks: An absolute and convective instability approach. <i>Journal of Geophysical Research</i> , 2000 , 105, 27685-27699		27
20	The absolute and convective instability of the magnetospheric flanks. <i>Journal of Geophysical Research</i> , 2000 , 105, 385-393		24
19	Coronal Loop Heating by Torsional Alfven Waves Directly Driven by Footpoint Motions: Harmonic Driving versus Stochastic Driving. <i>Astrophysical Journal</i> , 1999 , 521, 851-858	4.7	32
18	Excitation of resonant AlfvB waves in the magnetosphere by negative energy surface waves on the magnetopause. <i>Journal of Geophysical Research</i> , 1998 , 103, 26573-26584		21
17	Nonlinear theory of slow dissipative layers in anisotropic plasmas. <i>Physics of Plasmas</i> , 1998 , 5, 252-260	2.1	28
16	Nonlinear theory of resonant slow waves in dissipative layers. <i>Physics of Plasmas</i> , 1997 , 4, 75-90	2.1	32
15	Unified theory of damping of linear surface AlfvB waves in inhomogeneous incompressible plasmas. <i>Journal of Plasma Physics</i> , 1996 , 56, 107-125	2.7	3
14	Dissipative instability of the MHD tangential discontinuity in magnetized plasmas with anisotropic viscosity and thermal conductivity. <i>Journal of Plasma Physics</i> , 1996 , 56, 285-306	2.7	31
13	Analytic solutions for resonant AlfvE waves in 1D magnetic flux tubes in dissipative stationary MHD. <i>Solar Physics</i> , 1995 , 161, 123-138	2.6	23

12	Conservation laws and connection formulae for resonant MHD waves. <i>Physica Scripta</i> , 1995 , T60, 171-18	34 .6	57
11	Non-stationary resonant Alfvfi surface waves in one-dimensional magnetic plasmas. <i>Journal of Plasma Physics</i> , 1995 , 54, 129-148	2.7	32
10	Surface AlfvE waves of negative energy. <i>Journal of Plasma Physics</i> , 1995 , 54, 149-155	2.7	19
9	Nonlinearity effects on resonant absorption of surface AlfvII waves in incompressible plasmas. <i>Solar Physics</i> , 1993 , 143, 69-88	2.6	21
8	Long, nonlinear, non-axisymmetric surface-wave propagation in a magnetic tube. <i>Journal of Plasma Physics</i> , 1992 , 47, 175-191	2.7	24
7	Nonlinear dissipation of surface Alfven waves in the solar corona. <i>Astrophysical Journal</i> , 1992 , 399, 724	4.7	6
6	Viscous damping of surface magnetohydrodynamic waves on magnetic interface in cold plasmas. <i>Solar Physics</i> , 1991 , 131, 11-24	2.6	20
5	Longitudinal propagation of nonlinear surface Alfven waves at a magnetic interface in a compressible atmosphere. <i>Plasma Physics and Controlled Fusion</i> , 1988 , 30, 1117-1125	2	12
4	Long nonlinear waves in a compressible magnetically structured atmosphere. <i>Solar Physics</i> , 1987 , 109, 247-263	2.6	46
3	Propagation of nonlinear Alfvfi surface waves along a tangential magnetohydrodynamic discontinuity in an incompressible fluid. <i>Fluid Dynamics</i> , 1985 , 20, 85-92	0.7	8
2	Structure of the region of solar windInterstellar medium interaction and its influence on H atoms penetrating the solar wind. <i>Astrophysics and Space Science</i> , 1979 , 66, 441-451	1.6	74
1	On the model of the solar wind-interstellar medium interaction with two shock waves. <i>Astrophysics</i> and Space Science, 1976 , 41, 481-490	1.6	26