

# Michael Ruderman

## List of Publications by Year in descending order

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124  
papers

3,671  
citations

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33  
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all docs

126  
docs citations

126  
times ranked

935  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | The Damping of Coronal Loop Oscillations. <i>Astrophysical Journal</i> , 2002, 577, 475-486.  | 4.5  | 422       |
| 2  | Resonant MHD Waves in the Solar Atmosphere. <i>Space Science Reviews</i> , 2011, 158, 289-338.  | 8.1  | 193       |
| 3  | Transverse Oscillations of Coronal Loops. <i>Space Science Reviews</i> , 2009, 149, 199-228.  | 8.1  | 160       |
| 4  | Observations of ubiquitous compressive waves in the Sun's chromosphere. <i>Nature Communications</i> , 2012, 3, 1315.   | 12.8 | 148       |
| 5  | Transverse Oscillations of Longitudinally Stratified Coronal Loops with Variable Cross Section. <i>Astrophysical Journal</i> , 2008, 686, 694-700.  | 4.5  | 117       |
| 6  | Non-Axisymmetric Oscillations of Thin Prominence Fibrils. <i>Solar Physics</i> , 2005, 229, 79-94.  | 2.5  | 115       |
| 7  | Kinetic-Gasdynamic Modeling of the Heliospheric Interface. <i>Space Science Reviews</i> , 2009, 146, 329-351.   | 8.1  | 109       |
| 8  | DNLS equation for large-amplitude solitons propagating in an arbitrary direction in a high- $\beta^2$ Hall plasma. <i>Journal of Plasma Physics</i> , 2002, 67, 271-276.                  | 2.1  | 98        |
| 9  | Dynamics of modulationally unstable ion-acoustic wavepackets in plasmas with negative ions. <i>Journal of Plasma Physics</i> , 2008, 74, 639-656.   | 2.1  | 90        |
| 10 | Resonantly damped oscillations of longitudinally stratified coronal loops. <i>Astronomy and Astrophysics</i> , 2006, 457, 1059-1070.  | 5.1  | 86        |
| 11 | Structure of the region of solar wind-Interstellar medium interaction and its influence on H atoms penetrating the solar wind. <i>Astrophysics and Space Science</i> , 1979, 66, 441-451. | 1.4  | 83        |
| 12 | Nonaxisymmetric Oscillations of Thin Twisted Magnetic Tubes. <i>Solar Physics</i> , 2007, 246, 119-131.   | 2.5  | 71        |
| 13 | Conservation laws and connection formulae for resonant MHD waves. <i>Physica Scripta</i> , 1995, T60, 171-184.  | 2.5  | 67        |
| 14 | The resonant damping of oscillations of coronal loops with elliptic cross-sections. <i>Astronomy and Astrophysics</i> , 2003, 409, 287-297.   | 5.1  | 64        |
| 15 | Long nonlinear waves in a compressible magnetically structured atmosphere. <i>Solar Physics</i> , 1987, 109, 247-263.   | 2.5  | 50        |
| 16 | Damping of coronal loop kink oscillations due to mode conversion. <i>Astronomy and Astrophysics</i> , 2013, 555, A27.   | 5.1  | 47        |
| 17 | Nonlinear propagating kink waves in thin magnetic tubes. <i>Physics of Plasmas</i> , 2010, 17, .  | 1.9  | 45        |
| 18 | Transverse oscillations of two parallel coronal loops. <i>Astronomy and Astrophysics</i> , 2008, 485, 849-857.  | 5.1  | 41        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Nonlinear theory of resonant slow waves in dissipative layers. <i>Physics of Plasmas</i> , 1997, 4, 75-90.   | 1.9 | 40        |
| 20 | Propagation of solitons of the Derivative Nonlinear Schrödinger equation in a plasma with fluctuating density. <i>Physics of Plasmas</i> , 2002, 9, 2940-2945.                               | 1.9 | 40        |
| 21 | Transverse Oscillations of Coronal Loops with Slowly Changing Density. <i>Solar Physics</i> , 2011, 271, 41-54.  | 2.5 | 39        |
| 22 | The geometry effect on transverse oscillations of coronal loops. <i>Astronomy and Astrophysics</i> , 2006, 459, 241-244.   | 5.1 | 39        |
| 23 | Non-stationary resonant Alfvén surface waves in one-dimensional magnetic plasmas. <i>Journal of Plasma Physics</i> , 1995, 54, 129-148.  | 2.1 | 38        |
| 24 | The dynamics of current carriers in standing Alfvén waves: Parallel electric fields in the auroral acceleration region. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 19-1.        | 3.3 | 38        |
| 25 | PROPAGATION AND DISPERSION OF SAUSAGE WAVE TRAINS IN MAGNETIC FLUX TUBES. <i>Astrophysical Journal</i> , 2015, 806, 56.  | 4.5 | 38        |
| 26 | The Effect of Flows on Transverse Oscillations of Coronal Loops. <i>Solar Physics</i> , 2010, 267, 377-391.  | 2.5 | 37        |
| 27 | Propagating kink waves in thin twisted magnetic tubes with continuous equilibrium magnetic field. <i>Astronomy and Astrophysics</i> , 2015, 575, A130.                                       | 5.1 | 36        |
| 28 | Coronal Loop Heating by Torsional Alfvén Waves Directly Driven by Footpoint Motions: Harmonic Driving versus Stochastic Driving. <i>Astrophysical Journal</i> , 1999, 521, 851-858.          | 4.5 | 36        |
| 29 | Nonlinear theory of slow dissipative layers in anisotropic plasmas. <i>Physics of Plasmas</i> , 1998, 5, 252-260.  | 1.9 | 34        |
| 30 | On the model of the solar wind-interstellar medium interaction with two shock waves. <i>Astrophysics and Space Science</i> , 1976, 41, 481-490.  | 1.4 | 33        |
| 31 | Nonlinear waves in the solar atmosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 485-504.                                  | 3.4 | 33        |
| 32 | Fast Sausage Waves in Current-Carrying Coronal Loops. <i>Solar Physics</i> , 2012, 280, 153-163.   | 2.5 | 33        |
| 33 | PROPAGATION AND DISPERSION OF TRANSVERSE WAVE TRAINS IN MAGNETIC FLUX TUBES. <i>Astrophysical Journal</i> , 2014, 789, 48.   | 4.5 | 33        |
| 34 | 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. | 2.1 | 32        |
| 35 | Resonant damping of kink oscillations of cooling coronal magnetic loops. <i>Astronomy and Astrophysics</i> , 2011, 534, A78.   | 5.1 | 32        |
| 36 | Damping of prominence longitudinal oscillations due to mass accretion. <i>Astronomy and Astrophysics</i> , 2016, 591, A131.  | 5.1 | 31        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | 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.   | 2.6 | 30        |
| 38 | Long, nonlinear, non-axisymmetric surface-wave propagation in a magnetic tube. <i>Journal of Plasma Physics</i> , 1992, 47, 175-191.  | 2.1 | 29        |
| 39 | Analytic solutions for resonant Alfvén waves in 1D magnetic flux tubes in dissipative stationary MHD. <i>Solar Physics</i> , 1995, 161, 123-138.  | 2.5 | 29        |
| 40 | The absolute and convective instability of the magnetospheric flanks. <i>Journal of Geophysical Research</i> , 2000, 105, 385-393.  | 3.3 | 28        |
| 41 | Kelvin-Helmholtz instability on the magnetospheric flanks: An absolute and convective instability approach. <i>Journal of Geophysical Research</i> , 2000, 105, 27685-27699.  | 3.3 | 27        |
| 42 | ELECTRON THERMAL CONDUCTION AS A POSSIBLE PHYSICAL MECHANISM TO MAKE THE INNER HELIOSHEATH THINNER. <i>Astrophysical Journal Letters</i> , 2014, 795, L7.   | 8.3 | 27        |
| 43 | An Analytical Model of the Kelvin-Helmholtz Instability of Transverse Coronal Loop Oscillations. <i>Astrophysical Journal</i> , 2019, 870, 108.   | 4.5 | 27        |
| 44 | Comment on "Slow nonlinear waves in magnetic flux tubes" [Phys. Plasmas 11, 2256 (2004)]. <i>Physics of Plasmas</i> , 2005, 12, 034701.   | 1.9 | 26        |
| 45 | Leaky and non-leaky kink oscillations of magnetic flux tubes. <i>Journal of Plasma Physics</i> , 2006, 72, 285.   | 2.1 | 26        |
| 46 | 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. | 2.6 | 26        |
| 47 | 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.   | 2.5 | 26        |
| 48 | Viscous damping of surface magnetohydrodynamic waves on magnetic interface in cold plasmas. <i>Solar Physics</i> , 1991, 131, 11-24.  | 2.5 | 22        |
| 49 | Nonlinearity effects on resonant absorption of surface Alfvén waves in incompressible plasmas. <i>Solar Physics</i> , 1993, 143, 69-88.   | 2.5 | 22        |
| 50 | Excitation of resonant Alfvén waves in the magnetosphere by negative energy surface waves on the magnetopause. <i>Journal of Geophysical Research</i> , 1998, 103, 26573-26584.   | 3.3 | 22        |
| 51 | Nonlinear Damping of Standing Kink Waves Computed With Elsässer Variables. <i>Astrophysical Journal</i> , 2021, 910, 58.  | 4.5 | 22        |
| 52 | Surface Alfvén waves of negative energy. <i>Journal of Plasma Physics</i> , 1995, 54, 149-155.  | 2.1 | 21        |
| 53 | Nonlinear fast sausage waves in homogeneous magnetic flux tubes. <i>Journal of Plasma Physics</i> , 2015, 81, .   | 2.1 | 21        |
| 54 | Standing kink oscillations of thin twisted magnetic tubes with continuous equilibrium magnetic field. <i>Astronomy and Astrophysics</i> , 2015, 580, A57.   | 5.1 | 20        |

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|----|---|-----|-----------|
| 55 | Kink and fluting modes of stratified coronal magnetic loops with elliptical cross-sections. <i>Astronomy and Astrophysics</i> , 2011, 527, A53.   | 5.1 | 20        |
| 56 | MHD Waves and Instabilities in Space Plasma Flows. <i>Space Science Reviews</i> , 2011, 158, 505-523.   | 8.1 | 19        |
| 57 | Title is missing!. <i>Astrophysics and Space Science</i> , 2000, 274, 327-341.  | 1.4 | 18        |
| 58 | The structure of fast sausage waves in current-carrying coronal loops. <i>Annales Geophysicae</i> , 2014, 32, 1189-1193.  | 1.6 | 18        |
| 59 | Nonlinear Kink Oscillations of Coronal Magnetic Loops. <i>Solar Physics</i> , 2014, 289, 1999-2020.   | 2.5 | 18        |
| 60 | Torsional Alfvén waves: magneto-seismology in static and dynamic coronal plasmas. <i>Astronomy and Astrophysics</i> , 2011, 534, A27.   | 5.1 | 16        |
| 61 | Kelvin-Helmholtz absolute and convective instabilities of, and signalling in, an inviscid fluid-viscous fluid configuration. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004, 460, 847-874. | 2.1 | 15        |
| 62 | On the vertical and horizontal transverse oscillations of curved coronal loops. <i>Astronomy and Astrophysics</i> , 2009, 506, 885-893.   | 5.1 | 15        |
| 63 | Damped kink oscillations of flowing prominence threads. <i>Astronomy and Astrophysics</i> , 2012, 546, A82.   | 5.1 | 15        |
| 64 | Kink oscillations of cooling coronal loops with variable cross-section. <i>Astronomy and Astrophysics</i> , 2017, 602, A50.   | 5.1 | 15        |
| 65 | The stability of parallel-propagating circularly polarized Alfvén waves revisited. <i>Journal of Plasma Physics</i> , 2004, 70, 143-153.  | 2.1 | 14        |
| 66 | The effect of density stratification on the transverse oscillations of two parallel coronal loops. <i>Astronomy and Astrophysics</i> , 2010, 515, A33.  | 5.1 | 14        |
| 67 | 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.  | 2.1 | 13        |
| 68 | Longitudinal propagation of nonlinear surface Alfvén waves at a magnetic interface in a compressible atmosphere. <i>Plasma Physics and Controlled Fusion</i> , 1988, 30, 1117-1125.   | 2.1 | 12        |
| 69 | Compressibility Effect on the Rayleigh-Taylor Instability with Sheared Magnetic Fields. <i>Solar Physics</i> , 2017, 292, 1.  | 2.5 | 12        |
| 70 | Excitation of decayless kink oscillations by random motion. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .   | 4.4 | 12        |
| 71 | Resonantly damped oscillations of two coronal loops. <i>Astronomy and Astrophysics</i> , 2011, 525, A4.   | 5.1 | 11        |
| 72 | 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.  | 4.4 | 11        |

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|----|---|-----|-----------|
| 73 | The nature of convectively unstable waveguide mode disturbances on the magnetospheric flanks. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 14-1.                         | 3.3 | 10        |
| 74 | Nonlinear Generation of Fluting Perturbations by Kink Mode. <i>Solar Physics</i> , 2017, 292, 111.  | 2.5 | 10        |
| 75 | Resonant damping of kink oscillations of thin cooling and expanding coronal magnetic loops. <i>Astronomy and Astrophysics</i> , 2018, 619, A173.                                    | 5.1 | 10        |
| 76 | Rayleigh-Taylor instabilities with sheared magnetic fields in partially ionised plasmas. <i>Astronomy and Astrophysics</i> , 2018, 609, A23.  | 5.1 | 10        |
| 77 | Effect of siphon flow on resonant damping of kink oscillations in magnetic flux tubes. <i>Astronomy and Astrophysics</i> , 2019, 631, A31.  | 5.1 | 10        |
| 78 | 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. | 4.4 | 10        |
| 79 | Rayleigh-Taylor instability of a magnetic tangential discontinuity in the presence of flow. <i>Astronomy and Astrophysics</i> , 2015, 580, A37.                                     | 5.1 | 10        |
| 80 | Stability of an MHD shear flow with a piecewise linear velocity profile. <i>Astronomy and Astrophysics</i> , 2006, 448, 1177-1184.  | 5.1 | 9         |
| 81 | Comment on "Note on the Initial Value Problem for Coronal Loop Kink Waves" By P. S. Cally. <i>Solar Physics</i> , 2006, 237, 119-121.   | 2.5 | 9         |
| 82 | Non-reflective Propagation of Kink Waves in Coronal Magnetic Loops. <i>Solar Physics</i> , 2013, 286, 417-426.  | 2.5 | 9         |
| 83 | Non-reflective Propagation of Kink Pulses in Magnetic Waveguides in the Solar Atmosphere. <i>Solar Physics</i> , 2015, 290, 1323-1335.  | 2.5 | 9         |
| 84 | Resonant damping of kink oscillations of thin expanding magnetic tubes. <i>Astronomy and Astrophysics</i> , 2018, 615, A156.  | 5.1 | 9         |
| 85 | Propagation of nonlinear Alfvén surface waves along a tangential magnetohydrodynamic discontinuity in an incompressible fluid. <i>Fluid Dynamics</i> , 1985, 20, 85-92.             | 0.9 | 8         |
| 86 | Resonantly damped oscillations of longitudinally stratified coronal loops. <i>Astronomy and Astrophysics</i> , 2007, 463, 759-759.  | 5.1 | 8         |
| 87 | Stability of MHD shear flows: Application to space physics. <i>Journal of Physics: Conference Series</i> , 2010, 216, 012016.   | 0.4 | 8         |
| 88 | 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.                  | 4.4 | 8         |
| 89 | Phase mixing of Alfvén waves propagating in non-reflective magnetic plasma configurations. <i>Astronomy and Astrophysics</i> , 2017, 600, A122.                                     | 5.1 | 8         |
| 90 | Propagation of Torsional Alfvén Pulses in Zero-beta Flux Tubes. <i>Astrophysical Journal</i> , 2021, 911, 39.   | 4.5 | 8         |

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|-----|--|-----|-----------|
| 91  | Decayless Kink Oscillations Excited by Random Driving: Motion in Transitional Layer. <i>Solar Physics</i> , 2021, 296, 1.  | 2.5 | 8         |
| 92  | Nonlinear Waves in the Magnetically Structured Solar Atmosphere. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2003, , 239-274.                           | 0.1 | 8         |
| 93  | Transverse oscillations of non-planar coronal loops. <i>Astronomy and Astrophysics</i> , 2011, 529, A33.   | 5.1 | 8         |
| 94  | Absolute and convective instabilities of parallel propagating circularly polarized Alfvén waves: Beat instability. <i>Physics of Plasmas</i> , 2005, 12, 062103.                       | 1.9 | 7         |
| 95  | Absolute and convective instabilities of parallel propagating circularly polarized Alfvén waves: numerical results. <i>Astronomy and Astrophysics</i> , 2006, 452, 641-646.            | 5.1 | 7         |
| 96  | Negative energy standing wave instability in the presence of flow. <i>Journal of Plasma Physics</i> , 2018, 84, .  | 2.1 | 7         |
| 97  | Nonlinear dissipation of surface Alfvén waves in the solar corona. <i>Astrophysical Journal</i> , 1992, 399, 724.  | 4.5 | 7         |
| 98  | Absolute and convective instabilities of parallel propagating circularly polarized Alfvén waves: Decay instability. <i>Physics of Plasmas</i> , 2004, 11, 4178-4187.                   | 1.9 | 6         |
| 99  | Parametric instabilities of circularly polarized small-amplitude Alfvén waves in Hall plasmas. <i>Journal of Plasma Physics</i> , 2008, 74, 119-138.                                   | 2.1 | 6         |
| 100 | Nonlinear Effects in Resonant Layers in Solar and Space Plasmas. <i>Space Science Reviews</i> , 2011, 158, 421-450.  | 8.1 | 6         |
| 101 | Phase mixing of Alfvén waves in axisymmetric non-reflective magnetic plasma configurations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 2289-2301.           | 4.4 | 6         |
| 102 | Phase mixing of Alfvén waves in two-dimensional magnetic plasma configurations with exponentially decreasing density. <i>Astronomy and Astrophysics</i> , 2018, 620, A44.              | 5.1 | 6         |
| 103 | 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, . | 2.8 | 6         |
| 104 | Formation of Chromospheric Spicules in Magnetic Bright Points: An Analytical Approach Using Cartesian Slab Geometry. <i>Astrophysical Journal</i> , 2020, 905, 168.                    | 4.5 | 6         |
| 105 | Coronal Seismology Using Transverse Oscillations of Non-planar Coronal Loops. <i>Solar Physics</i> , 2012, 278, 177-185.   | 2.5 | 5         |
| 106 | Unified theory of damping of linear surface Alfvén waves in inhomogeneous incompressible plasmas. <i>Journal of Plasma Physics</i> , 1996, 56, 107-125.                                | 2.1 | 4         |
| 107 | Possible Cross-Section for a Coronal Loop of Given Shape?. <i>Solar Physics</i> , 2015, 290, 423-435.  | 2.5 | 4         |
| 108 | Significance of Cooling Effect on Comprehension of Kink Oscillations of Coronal Loops. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 7, .                                   | 2.8 | 4         |

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|-----|--|-----|-----------|
| 109 | Reflection and Evolution of Torsional Alfvén Pulses in Zero-beta Flux Tubes. <i>Astrophysical Journal</i> , 2021, 922, 118.  | 4.5 | 4         |
| 110 | Nonlinear radial oscillations of coronal loops. <i>Geomagnetism and Aeronomy</i> , 2016, 56, 1040-1044.  | 0.8 | 3         |
| 111 | Propagation of leaky surface waves on contact magnetohydrodynamic discontinuities in incompressible plasmas. <i>Physics of Plasmas</i> , 2018, 25, .                               | 1.9 | 3         |
| 112 | Quasi-parallel propagation of solitary waves in magnetised non-relativistic electron-positron plasmas. <i>Journal of Plasma Physics</i> , 2020, 86, .                              | 2.1 | 3         |
| 113 | Effect of Transitional Layer on Frequency of Kink Oscillations. <i>Solar Physics</i> , 2022, 297, .  | 2.5 | 3         |
| 114 | Absolute and Convective Instabilities of Circularly Polarized Alfvén Waves. <i>Space Science Reviews</i> , 2005, 121, 287-297.   | 8.1 | 2         |
| 115 | Resonant Instability of Kink Oscillations in Magnetic Flux Tubes with Siphon Flow. <i>Solar Physics</i> , 2021, 296, 1.  | 2.5 | 2         |
| 116 | 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.                       | 0.0 | 1         |
| 117 | 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         |
| 118 | On the stability of tangential discontinuity in the interaction of solar wind and cometary atmospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .          | 4.4 | 1         |
| 119 | Interaction of sound waves with inhomogeneous magnetized plasma in strongly nonlinear resonant slow wave layer. <i>AIP Conference Proceedings</i> , 2000, , .                      | 0.4 | 0         |
| 120 | Non-axisymmetric oscillations of thin twisted magnetic tubes. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 344-350.                                       | 0.0 | 0         |
| 121 | Theory of Transverse Oscillations of Solar Coronal Loops. , 2009, , .  |     | 0         |
| 122 | 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.                | 1.2 | 0         |
| 123 | Kink Oscillations of Thin Magnetic Tubes with Discontinuous Density. <i>Solar Physics</i> , 2014, 289, 2473-2485.  | 2.5 | 0         |
| 124 | 10.1063/1.3464464.1., 2010, , .  |     | 0         |