

Roberto Soler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/536780/publications.pdf>

Version: 2024-02-01

56
papers

1,825
citations

218677

26
h-index

265206

42
g-index

56
all docs

56
docs citations

56
times ranked

724
citing authors

#	ARTICLE	IF	CITATIONS
1	SURFACE ALFVÉN WAVES IN SOLAR FLUX TUBES. <i>Astrophysical Journal</i> , 2012, 753, 111.	4.5	114
2	Solar Science with the Atacama Large Millimeter/Submillimeter Array – A New View of Our Sun. <i>Space Science Reviews</i> , 2016, 200, 1-73.	8.1	113
3	SWAYING THREADS OF A SOLAR FILAMENT. <i>Astrophysical Journal</i> , 2009, 704, 870-876.	4.5	108
4	Partially Ionized Plasmas in Astrophysics. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	102
5	THE BEHAVIOR OF TRANSVERSE WAVES IN NONUNIFORM SOLAR FLUX TUBES. I. COMPARISON OF IDEAL AND RESISTIVE RESULTS. <i>Astrophysical Journal</i> , 2013, 777, 158.	4.5	72
6	ENERGY CONTENT AND PROPAGATION IN TRANSVERSE SOLAR ATMOSPHERIC WAVES. <i>Astrophysical Journal</i> , 2013, 768, 191.	4.5	71
7	MAGNETOHYDRODYNAMIC WAVES IN A PARTIALLY IONIZED FILAMENT THREAD. <i>Astrophysical Journal</i> , 2009, 699, 1553-1562.	4.5	66
8	DAMPING OF FILAMENT THREAD OSCILLATIONS: EFFECT OF THE SLOW CONTINUUM. <i>Astrophysical Journal</i> , 2009, 695, L166-L170.	4.5	59
9	ALFVÉN WAVES IN A PARTIALLY IONIZED TWO-FLUID PLASMA. <i>Astrophysical Journal</i> , 2013, 767, 171.	4.5	59
10	THE TRANSVERSE AND ROTATIONAL MOTIONS OF MAGNETOHYDRODYNAMIC KINK WAVES IN THE SOLAR ATMOSPHERE. <i>Astrophysical Journal</i> , 2014, 788, 9.	4.5	53
11	KELVIN – HELMHOLTZ INSTABILITY IN CORONAL MAGNETIC FLUX TUBES DUE TO AZIMUTHAL SHEAR FLOWS. <i>Astrophysical Journal</i> , 2010, 712, 875-882.	4.5	52
12	Nonadiabatic Magnetohydrodynamic Waves in a Cylindrical Prominence Thread with Mass Flow. <i>Astrophysical Journal</i> , 2008, 684, 725-735.	4.5	47
13	MORPHOLOGY AND DYNAMICS OF SOLAR PROMINENCES FROM 3D MHD SIMULATIONS. <i>Astrophysical Journal</i> , 2015, 799, 94.	4.5	47
14	MAGNETOHYDRODYNAMIC KINK WAVES IN NONUNIFORM SOLAR FLUX TUBES: PHASE MIXING AND ENERGY CASCADE TO SMALL SCALES. <i>Astrophysical Journal</i> , 2015, 803, 43.	4.5	46
15	MAGNETOACOUSTIC WAVES IN A PARTIALLY IONIZED TWO-FLUID PLASMA. <i>Astrophysical Journal</i> , Supplement Series, 2013, 209, 16.	7.7	45
16	KELVIN-HELMHOLTZ INSTABILITY IN PARTIALLY IONIZED COMPRESSIBLE PLASMAS. <i>Astrophysical Journal</i> , 2012, 749, 163.	4.5	44
17	DYNAMICS OF CORONAL RAIN AND DESCENDING PLASMA BLOBS IN SOLAR PROMINENCES. II. PARTIALLY IONIZED CASE. <i>Astrophysical Journal</i> , 2016, 818, 128.	4.5	43
18	SEISMOLOGY OF STANDING KINK OSCILLATIONS OF SOLAR PROMINENCE FINE STRUCTURES. <i>Astrophysical Journal</i> , 2010, 722, 1778-1792.	4.5	40

#	ARTICLE	IF	CITATIONS
19	Propagation of Torsional Alfvén Waves from the Photosphere to the Corona: Reflection, Transmission, and Heating in Expanding Flux Tubes. <i>Astrophysical Journal</i> , 2017, 840, 20.	4.5	40
20	RAYLEIGH-TAYLOR INSTABILITY IN PARTIALLY IONIZED COMPRESSIBLE PLASMAS. <i>Astrophysical Journal</i> , 2012, 754, 41.	4.5	39
21	RESONANTLY DAMPED PROPAGATING KINK WAVES IN LONGITUDINALLY STRATIFIED SOLAR WAVEGUIDES. <i>Astrophysical Journal</i> , 2011, 736, 10.	4.5	37
22	THE BEHAVIOR OF TRANSVERSE WAVES IN NONUNIFORM SOLAR FLUX TUBES. II. IMPLICATIONS FOR CORONAL LOOP SEISMOLOGY. <i>Astrophysical Journal</i> , 2014, 781, 111.	4.5	37
23	SPATIAL DAMPING OF PROPAGATING KINK WAVES DUE TO RESONANT ABSORPTION: EFFECT OF BACKGROUND FLOW. <i>Astrophysical Journal</i> , 2011, 734, 80.	4.5	36
24	DYNAMICS OF CORONAL RAIN AND DESCENDING PLASMA BLOBS IN SOLAR PROMINENCES. I. FULLY IONIZED CASE. <i>Astrophysical Journal</i> , 2014, 784, 21.	4.5	35
25	SOLAR PROMINENCES EMBEDDED IN FLUX ROPES: MORPHOLOGICAL FEATURES AND DYNAMICS FROM 3D MHD SIMULATIONS. <i>Astrophysical Journal</i> , 2016, 820, 125.	4.5	31
26	MAGNETOHYDRODYNAMIC WAVES IN TWO-DIMENSIONAL PROMINENCES EMBEDDED IN CORONAL ARCADES. <i>Astrophysical Journal</i> , 2013, 778, 49.	4.5	29
27	Energy Transport and Heating by Torsional Alfvén Waves Propagating from the Photosphere to the Corona in the Quiet Sun. <i>Astrophysical Journal</i> , 2019, 871, 3.	4.5	29
28	PROPAGATION OF NONADIABATIC MAGNETOACOUSTIC WAVES IN A THREADED PROMINENCE WITH MASS FLOWS. <i>Astrophysical Journal</i> , 2009, 693, 1601-1609.	4.5	25
29	APPARENT CROSS-FIELD SUPERSLOW PROPAGATION OF MAGNETOHYDRODYNAMIC WAVES IN SOLAR PLASMAS. <i>Astrophysical Journal</i> , 2015, 812, 121.	4.5	25
30	ON THE SPATIAL SCALES OF WAVE HEATING IN THE SOLAR CHROMOSPHERE. <i>Astrophysical Journal</i> , 2015, 810, 146.	4.5	23
31	MODEL COMPARISON FOR THE DENSITY STRUCTURE ACROSS SOLAR CORONAL WAVEGUIDES. <i>Astrophysical Journal</i> , 2015, 811, 104.	4.5	22
32	The role of Alfvén wave heating in solar prominences. <i>Astronomy and Astrophysics</i> , 2016, 592, A28.	5.1	20
33	Multi-fluid Approach to High-frequency Waves in Plasmas. II. Small-amplitude Regime in Partially Ionized Media. <i>Astrophysical Journal</i> , 2017, 837, 80.	4.5	20
34	Multi-fluid Approach to High-frequency Waves in Plasmas. III. Nonlinear Regime and Plasma Heating. <i>Astrophysical Journal</i> , 2018, 856, 16.	4.5	20
35	ANALYTIC APPROXIMATE SEISMOLOGY OF PROPAGATING MAGNETOHYDRODYNAMIC WAVES IN THE SOLAR CORONA. <i>Astrophysical Journal</i> , 2012, 760, 98.	4.5	19
36	MULTI-FLUID APPROACH TO HIGH-FREQUENCY WAVES IN PLASMAS. I. SMALL-AMPLITUDE REGIME IN FULLY IONIZED MEDIUM. <i>Astrophysical Journal</i> , 2016, 832, 101.	4.5	18

#	ARTICLE	IF	CITATIONS
37	ON THE SUPPORT OF NEUTRALS AGAINST GRAVITY IN SOLAR PROMINENCES. <i>Astrophysical Journal Letters</i> , 2015, 802, L28.	8.3	14
38	THE THERMAL INSTABILITY OF SOLAR PROMINENCE THREADS. <i>Astrophysical Journal</i> , 2011, 731, 39.	4.5	13
39	Transition to turbulence in nonuniform coronal loops driven by torsional Alfvén waves. <i>Astronomy and Astrophysics</i> , 2021, 648, A22.	5.1	11
40	Attenuation of small-amplitude oscillations in a prominenceâ€“corona model with a transverse magnetic field. <i>New Astronomy</i> , 2009, 14, 238-248.	1.8	10
41	The Effect of a Twisted Magnetic Field on the Phase Mixing of the Kink Magnetohydrodynamic Waves in Coronal Loops. <i>Astrophysical Journal</i> , 2017, 845, 86.	4.5	10
42	Resonances in a Coronal Loop Driven by Torsional Alfvén Waves Propagating from the Photosphere. <i>Astrophysical Journal</i> , 2021, 909, 190.	4.5	10
43	Oscillatory Modes of a Prominenceâ€“PCTRâ€“Corona Slab Model. <i>Solar Physics</i> , 2007, 246, 728-88.		8
44	Fluting Modes in Transversely Nonuniform Solar Flux Tubes. <i>Astrophysical Journal</i> , 2017, 850, 114.	4.5	8
45	Phase Mixing of Kink MHD Waves in the Solar Corona: Viscous Dissipation and Heating. <i>Astrophysical Journal</i> , 2020, 893, 157.	4.5	8
46	Theory of Fluid Instabilities in Partially Ionized Plasmas: An Overview. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.8	8
47	Damped transverse oscillations of interacting coronal loops. <i>Astronomy and Astrophysics</i> , 2015, 582, A120.	5.1	6
48	Resonant absorption: Transformation of compressive motions into vortical motions. <i>Astronomy and Astrophysics</i> , 2020, 641, A106.	5.1	6
49	SSALMON â€“ The Solar Simulations for the Atacama Large Millimeter Observatory Network. <i>Advances in Space Research</i> , 2015, 56, 2679-2692.	2.6	5
50	Alfvén wave heating in partially ionized thin threads of solar prominences. <i>Astronomy and Astrophysics</i> , 2021, 650, A45.	5.1	5
51	Overdense Threads in the Solar Corona Induced by Torsional Alfvén Waves. <i>Astrophysical Journal Letters</i> , 2021, 922, L26.	8.3	5
52	The damping of transverse oscillations of prominence threads: a comparative study. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 48-51.	0.0	3
53	Transverse waves in coronal flux tubes with thick boundaries: The effect of longitudinal flows. <i>Astronomy and Astrophysics</i> , 2019, 623, A32.	5.1	3
54	Viscous energy dissipation of kink waves due to phase mixing in twisted coronal flux tubes. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	3

#	ARTICLE	IF	CITATIONS
55	Quasimodes in the cusp continuum in nonuniform magnetic flux tubes. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	2
56	Prominence seismology using ground- and space-based observations. <i>EAS Publications Series</i> , 2012, 55, 169-174.	0.3	1