

Roberto Soler

List of Publications by Year in descending order

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56
papers

1,825
citations

218677

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265206

42
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56
all docs

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docs citations

56
times ranked

724
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Theory of Fluid Instabilities in Partially Ionized Plasmas: An Overview. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, . | 2.8 | 8 |
| 2 | Resonances in a Coronal Loop Driven by Torsional Alfvén Waves Propagating from the Photosphere. <i>Astrophysical Journal</i> , 2021, 909, 190. | 4.5 | 10 |
| 3 | Transition to turbulence in nonuniform coronal loops driven by torsional Alfvén waves. <i>Astronomy and Astrophysics</i> , 2021, 648, A22. | 5.1 | 11 |
| 4 | Alfvén wave heating in partially ionized thin threads of solar prominences. <i>Astronomy and Astrophysics</i> , 2021, 650, A45. | 5.1 | 5 |
| 5 | Overdense Threads in the Solar Corona Induced by Torsional Alfvén Waves. <i>Astrophysical Journal Letters</i> , 2021, 922, L26. | 8.3 | 5 |
| 6 | Resonant absorption: Transformation of compressive motions into vortical motions. <i>Astronomy and Astrophysics</i> , 2020, 641, A106. | 5.1 | 6 |
| 7 | Phase Mixing of Kink MHD Waves in the Solar Corona: Viscous Dissipation and Heating. <i>Astrophysical Journal</i> , 2020, 893, 157. | 4.5 | 8 |
| 8 | 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 |
| 9 | 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 |
| 10 | Partially Ionized Plasmas in Astrophysics. <i>Space Science Reviews</i> , 2018, 214, 1. | 8.1 | 102 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Fluting Modes in Transversely Nonuniform Solar Flux Tubes. <i>Astrophysical Journal</i> , 2017, 850, 114. | 4.5 | 8 |
| 16 | The role of Alfvén wave heating in solar prominences. <i>Astronomy and Astrophysics</i> , 2016, 592, A28. | 5.1 | 20 |
| 17 | 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 |
| 18 | SOLAR PROMINENCES EMBEDDED IN FLUX ROPES: MORPHOLOGICAL FEATURES AND DYNAMICS FROM 3D MHD SIMULATIONS. <i>Astrophysical Journal</i> , 2016, 820, 125. | 4.5 | 31 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | ON THE SPATIAL SCALES OF WAVE HEATING IN THE SOLAR CHROMOSPHERE. <i>Astrophysical Journal</i> , 2015, 810, 146. | 4.5 | 23 |
| 22 | MODEL COMPARISON FOR THE DENSITY STRUCTURE ACROSS SOLAR CORONAL WAVEGUIDES. <i>Astrophysical Journal</i> , 2015, 811, 104. | 4.5 | 22 |
| 23 | APPARENT CROSS-FIELD SUPERSLOW PROPAGATION OF MAGNETOHYDRODYNAMIC WAVES IN SOLAR PLASMAS. <i>Astrophysical Journal</i> , 2015, 812, 121. | 4.5 | 25 |
| 24 | Damped transverse oscillations of interacting coronal loops. <i>Astronomy and Astrophysics</i> , 2015, 582, A120. | 5.1 | 6 |
| 25 | MORPHOLOGY AND DYNAMICS OF SOLAR PROMINENCES FROM 3D MHD SIMULATIONS. <i>Astrophysical Journal</i> , 2015, 799, 94. | 4.5 | 47 |
| 26 | SSALMON – The Solar Simulations for the Atacama Large Millimeter Observatory Network. <i>Advances in Space Research</i> , 2015, 56, 2679-2692. | 2.6 | 5 |
| 27 | ON THE SUPPORT OF NEUTRALS AGAINST GRAVITY IN SOLAR PROMINENCES. <i>Astrophysical Journal Letters</i> , 2015, 802, L28. | 8.3 | 14 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | THE TRANSVERSE AND ROTATIONAL MOTIONS OF MAGNETOHYDRODYNAMIC KINK WAVES IN THE SOLAR ATMOSPHERE. <i>Astrophysical Journal</i> , 2014, 788, 9. | 4.5 | 53 |
| 32 | ENERGY CONTENT AND PROPAGATION IN TRANSVERSE SOLAR ATMOSPHERIC WAVES. <i>Astrophysical Journal</i> , 2013, 768, 191. | 4.5 | 71 |
| 33 | 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 |
| 34 | MAGNETOACOUSTIC WAVES IN A PARTIALLY IONIZED TWO-FLUID PLASMA. <i>Astrophysical Journal</i> , Supplement Series, 2013, 209, 16. | 7.7 | 45 |
| 35 | ALFVÉN WAVES IN A PARTIALLY IONIZED TWO-FLUID PLASMA. <i>Astrophysical Journal</i> , 2013, 767, 171. | 4.5 | 59 |
| 36 | MAGNETOHYDRODYNAMIC WAVES IN TWO-DIMENSIONAL PROMINENCES EMBEDDED IN CORONAL ARCADES. <i>Astrophysical Journal</i> , 2013, 778, 49. | 4.5 | 29 |

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|----|---|-----|-----------|
| 37 | The damping of transverse oscillations of prominence threads: a comparative study. Proceedings of the International Astronomical Union, 2013, 8, 48-51. | 0.0 | 3 |
| 38 | Prominence seismology using ground- and space-based observations. EAS Publications Series, 2012, 55, 169-174. | 0.3 | 1 |
| 39 | ANALYTIC APPROXIMATE SEISMOLOGY OF PROPAGATING MAGNETOHYDRODYNAMIC WAVES IN THE SOLAR CORONA. Astrophysical Journal, 2012, 760, 98. | 4.5 | 19 |
| 40 | KELVIN-HELMHOLTZ INSTABILITY IN PARTIALLY IONIZED COMPRESSIBLE PLASMAS. Astrophysical Journal, 2012, 749, 163. | 4.5 | 44 |
| 41 | RAYLEIGH-TAYLOR INSTABILITY IN PARTIALLY IONIZED COMPRESSIBLE PLASMAS. Astrophysical Journal, 2012, 754, 41. | 4.5 | 39 |
| 42 | SURFACE ALFVÉN WAVES IN SOLAR FLUX TUBES. Astrophysical Journal, 2012, 753, 111. | 4.5 | 114 |
| 43 | SPATIAL DAMPING OF PROPAGATING KINK WAVES DUE TO RESONANT ABSORPTION: EFFECT OF BACKGROUND FLOW. Astrophysical Journal, 2011, 734, 80. | 4.5 | 36 |
| 44 | THE THERMAL INSTABILITY OF SOLAR PROMINENCE THREADS. Astrophysical Journal, 2011, 731, 39. | 4.5 | 13 |
| 45 | RESONANTLY DAMPED PROPAGATING KINK WAVES IN LONGITUDINALLY STRATIFIED SOLAR WAVEGUIDES. Astrophysical Journal, 2011, 736, 10. | 4.5 | 37 |
| 46 | KELVIN-HELMHOLTZ INSTABILITY IN CORONAL MAGNETIC FLUX TUBES DUE TO AZIMUTHAL SHEAR FLOWS. Astrophysical Journal, 2010, 712, 875-882. | 4.5 | 52 |
| 47 | SEISMOLOGY OF STANDING KINK OSCILLATIONS OF SOLAR PROMINENCE FINE STRUCTURES. Astrophysical Journal, 2010, 722, 1778-1792. | 4.5 | 40 |
| 48 | SWAYING THREADS OF A SOLAR FILAMENT. Astrophysical Journal, 2009, 704, 870-876. | 4.5 | 108 |
| 49 | DAMPING OF FILAMENT THREAD OSCILLATIONS: EFFECT OF THE SLOW CONTINUUM. Astrophysical Journal, 2009, 695, L166-L170. | 4.5 | 59 |
| 50 | PROPAGATION OF NONADIABATIC MAGNETOACOUSTIC WAVES IN A THREADED PROMINENCE WITH MASS FLOWS. Astrophysical Journal, 2009, 693, 1601-1609. | 4.5 | 25 |
| 51 | Attenuation of small-amplitude oscillations in a prominence-corona model with a transverse magnetic field. New Astronomy, 2009, 14, 238-248. | 1.8 | 10 |
| 52 | MAGNETOHYDRODYNAMIC WAVES IN A PARTIALLY IONIZED FILAMENT THREAD. Astrophysical Journal, 2009, 699, 1553-1562. | 4.5 | 66 |
| 53 | Nonadiabatic Magnetohydrodynamic Waves in a Cylindrical Prominence Thread with Mass Flow. Astrophysical Journal, 2008, 684, 725-735. | 4.5 | 47 |
| 54 | Oscillatory Modes of a Prominence-PCTR-Corona Slab Model. Solar Physics, 2007, 246, 723-738. | 4.5 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Viscous energy dissipation of kink waves due to phase mixing in twisted coronal flux tubes. Monthly Notices of the Royal Astronomical Society, 0, , . | 4.4 | 3 |
| 56 | Quasimodes in the cusp continuum in nonuniform magnetic flux tubes. Astronomy and Astrophysics, 0, , . | 5.1 | 2 |