

# Maarcel Goossens

## List of Publications by Year in descending order

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90  
papers

4,790  
citations

94433

37  
h-index

95266

68  
g-index

92  
all docs

92  
docs citations

92  
times ranked

1100  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alfvénic waves with sufficient energy to power the quiet solar corona and fast solar wind. <i>Nature</i> , 2011, 475, 477-480.	27.8	471
2	Resonant behaviour of MHD waves on magnetic flux tubes. <i>Solar Physics</i> , 1991, 133, 227-245.	2.5	243
3	Resonant behaviour of MHD waves on magnetic flux tubes. <i>Solar Physics</i> , 1992, 138, 233-255.	2.5	242
4	Determination of the Coronal Density Stratification from the Observation of Harmonic Coronal Loop Oscillations. <i>Astrophysical Journal</i> , 2005, 624, L57-L60.	4.5	203
5	Resonant MHD Waves in the Solar Atmosphere. <i>Space Science Reviews</i> , 2011, 158, 289-338.	8.1	193
6	Dissipative MHD solutions for resonant Alfvén waves in 1-dimensional magnetic flux tubes. <i>Solar Physics</i> , 1995, 157, 75-102.	2.5	184
7	Observational Tests of Damping by Resonant Absorption in Coronal Loop Oscillations. <i>Astrophysical Journal</i> , 2003, 598, 1375-1386.	4.5	173
8	Damping of Coronal Loop Oscillations: Calculation of Resonantly Damped Kink Oscillations of One-dimensional Nonuniform Loops. <i>Astrophysical Journal</i> , 2004, 606, 1223-1232.	4.5	169
9	Nonlinear Instability of Kink Oscillations due to Shear Motions. <i>Astrophysical Journal</i> , 2008, 687, L115-L118.	4.5	135
10	Numerical simulation of coronal heating by resonant absorption of Alfvén waves. <i>Solar Physics</i> , 1989, 123, 83-115.	2.5	121
11	SURFACE ALFVÉN WAVES IN SOLAR FLUX TUBES. <i>Astrophysical Journal</i> , 2012, 753, 111.	4.5	114
12	Cross-Field Heating of Coronal Ions by Low-Frequency Kinetic Alfvén Waves. <i>Astrophysical Journal</i> , 2004, 605, L149-L152.	4.5	100
13	On the efficiency of coronal loop heating by resonant absorption. <i>Astrophysical Journal</i> , 1990, 360, 279.	4.5	98
14	OBSERVATIONAL EVIDENCE OF RESONANTLY DAMPED PROPAGATING KINK WAVES IN THE SOLAR CORONA. <i>Astrophysical Journal Letters</i> , 2010, 718, L102-L105.	8.3	95
15	Quasi-Modes as Dissipative Magnetohydrodynamic Eigenmodes: Results for One-dimensional Equilibrium States. <i>Astrophysical Journal</i> , 1996, 471, 501-510.	4.5	83
16	Resonant Absorption in Complicated Plasma Configurations: Applications to Multistranded Coronal Loop Oscillations. <i>Astrophysical Journal</i> , 2008, 679, 1611-1620.	4.5	79
17	LYRA OBSERVATIONS OF TWO OSCILLATION MODES IN A SINGLE FLARE. <i>Astrophysical Journal</i> , 2011, 740, 90.	4.5	73
18	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

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19	Resonant behaviour of MHD waves on magnetic flux tubes. Solar Physics, 1991, 133, 247-262.	2.5	71
20	ENERGY CONTENT AND PROPAGATION IN TRANSVERSE SOLAR ATMOSPHERIC WAVES. Astrophysical Journal, 2013, 768, 191.	4.5	71
21	Conservation laws and connection formulae for resonant MHD waves. Physica Scripta, 1995, T60, 171-184.	2.5	67
22	Resonant behaviour of MHD waves on magnetic flux tubes. Solar Physics, 1993, 145, 19-44.	2.5	66
23	DAMPING OF FILAMENT THREAD OSCILLATIONS: EFFECT OF THE SLOW CONTINUUM. Astrophysical Journal, 2009, 695, L166-L170.	4.5	59
24	MAGNETOSEISMOLOGICAL DETERMINATION OF MAGNETIC FIELD AND PLASMA DENSITY HEIGHT VARIATION IN A SOLAR SPICULE. Astrophysical Journal Letters, 2011, 733, L15.	8.3	59
25	THE TRANSVERSE AND ROTATIONAL MOTIONS OF MAGNETOHYDRODYNAMIC KINK WAVES IN THE SOLAR ATMOSPHERE. Astrophysical Journal, 2014, 788, 9.	4.5	53
26	KELVINâ€™HELMHOLTZ INSTABILITY IN CORONAL MAGNETIC FLUX TUBES DUE TO AZIMUTHAL SHEAR FLOWS. Astrophysical Journal, 2010, 712, 875-882.	4.5	52
27	Resonant Damping of Solarpâ€™Modes by the Chromospheric Magnetic Field. Astrophysical Journal, 1998, 503, 422-428.	4.5	49
28	Linear resistive magnetohydrodynamic computations of resonant absorption of acoustic oscillations in sunspots. Astrophysical Journal, 1992, 384, 348.	4.5	45
29	KELVIN-HELMHOLTZ INSTABILITY IN PARTIALLY IONIZED COMPRESSIBLE PLASMAS. Astrophysical Journal, 2012, 749, 163.	4.5	44
30	Multiple scattering and resonant absorption of p-modes by fibril sunspots. Astrophysical Journal, 1994, 436, 372.	4.5	44
31	MAGNETOSEISMOLOGY: EIGENMODES OF TORSIONAL ALFVÃ‰N WAVES IN STRATIFIED SOLAR WAVEGUIDES. Astrophysical Journal, 2010, 714, 1637-1648.	4.5	43
32	FREQUENCY AND DAMPING RATE OF FAST SAUSAGE WAVES. Astrophysical Journal, 2014, 781, 92.	4.5	43
33	AlfvÃ‰n-wave heating in resistive MHD. Journal of Plasma Physics, 1989, 42, 27-58.	2.1	42
34	Generalized phase mixing: Turbulence-like behaviour from unidirectionally propagating MHD waves. Scientific Reports, 2017, 7, 14820.	3.3	42
35	Nonlinear theory of resonant slow waves in dissipative layers. Physics of Plasmas, 1997, 4, 75-90.	1.9	40
36	Modified Kelvinâ€™Helmholtz Instabilities and Resonant Flow Instabilities in a Oneâ€™dimensional Coronal Plume Model: Results for Plasma documentclass{aastex} usepackage{amsbsy} usepackage{amsfonts} usepackage{amssymb} usepackage{bm} usepackage{mathrsfs} usepackage{pifont} usepackage{stmaryrd} usepackage{textcomp} usepackage{portland,xspace} usepackage{amsmath,amsxtra} usepackage[OT2,OT1]{fontenc} ewcommandcyr{enewcommandmdefault{wncyr} enewcommandsfdefault{wncyss} enewcommandencodingd.	4.5	40

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37	Non-stationary resonant Alfvén surface waves in one-dimensional magnetic plasmas. <i>Journal of Plasma Physics</i> , 1995, 54, 129-148.	2.1	38
38	RESONANTLY DAMPED PROPAGATING KINK WAVES IN LONGITUDINALLY STRATIFIED SOLAR WAVEGUIDES. <i>Astrophysical Journal</i> , 2011, 736, 10.	4.5	37
39	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
40	SPATIAL DAMPING OF PROPAGATING KINK WAVES DUE TO RESONANT ABSORPTION: EFFECT OF BACKGROUND FLOW. <i>Astrophysical Journal</i> , 2011, 734, 80.	4.5	36
41	Excitation of high-frequency Alfvén waves by plasma outflows from coronal reconnection events. <i>Solar Physics</i> , 2002, 206, 285-313.	2.5	35
42	On the existence of the continuous spectrum of ideal MHD in a 2D magnetostatic equilibrium. <i>Solar Physics</i> , 1985, 102, 51-66.	2.5	34
43	The thermal continuum in coronal loops: Instability criteria and the influence of perpendicular thermal conduction. <i>Solar Physics</i> , 1991, 134, 247-273.	2.5	34
44	Additional results for unstable stratified toroidal magnetic fields in stars. <i>Astrophysics and Space Science</i> , 1981, 75, 521-526.	1.4	33
45	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
46	Energization of Plasma Species by Intermittent Kinetic Alfvén Waves. <i>Space Science Reviews</i> , 2006, 122, 255-270.	8.1	30
47	SEISMOLOGY OF TRANSVERSELY OSCILLATING CORONAL LOOPS WITH SIPHON FLOWS. <i>Astrophysical Journal Letters</i> , 2011, 729, L22.	8.3	30
48	X6.9-CLASS FLARE-INDUCED VERTICAL KINK OSCILLATIONS IN A LARGE-SCALE PLASMA CURTAIN AS OBSERVED BY THE SOLAR DYNAMICS OBSERVATORY/ATMOSPHERIC IMAGING ASSEMBLY. <i>Astrophysical Journal</i> , 2013, 777, 17.	4.5	30
49	Temporal evolution of resonant absorption in solar coronal loops. <i>Computer Physics Communications</i> , 1990, 59, 95-103.	7.5	29
50	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
51	Marfes: a magnetohydrodynamic stability study of two-dimensional tokamak equilibria. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, 423-438.	2.1	29
52	Perturbation of the radial and non-radial oscillations of a star by a magnetic field. <i>Astrophysics and Space Science</i> , 1972, 16, 386-404.	1.4	28
53	Title is missing!. <i>Solar Physics</i> , 2002, 209, 37-60.	2.5	28
54	Numerical simulation of the stationary state of periodically driven coronal loops. <i>Computer Physics Communications</i> , 1990, 59, 75-84.	7.5	26

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55	Resonant and phase-mixed magnetohydrodynamic waves in the solar atmosphere. <i>Physics of Plasmas</i> , 2001, 8, 2371-2376.	1.9	25
56	On the Scaling of the Damping Time for Resonantly Damped Oscillations in Coronal Loops. <i>Astrophysical Journal</i> , 2008, 676, L77-L80.	4.5	25
57	Total resonant absorption of acoustic oscillations in sunspots. <i>Solar Physics</i> , 1993, 147, 13-28.	2.5	24
58	A singular perturbation approach to the effect of a weak magnetic field on stellar oscillations. <i>Monthly Notices of the Royal Astronomical Society</i> , 1982, 201, 619-633.	4.4	22
59	Nonlinearity effects on resonant absorption of surface Alfvén waves in incompressible plasmas. <i>Solar Physics</i> , 1993, 143, 69-88.	2.5	22
60	Alfvén wave heating. <i>Space Science Reviews</i> , 1994, 68, 51-62.	8.1	22
61	Viscous computations of resonant absorption of MHD waves in flux tubes by fem. <i>Astrophysics and Space Science</i> , 1994, 213, 273-298.	1.4	22
62	Nonlinear Damping of Standing Kink Waves Computed With Elsässer Variables. <i>Astrophysical Journal</i> , 2021, 910, 58.	4.5	22
63	Surface Alfvén waves of negative energy. <i>Journal of Plasma Physics</i> , 1995, 54, 149-155.	2.1	21
64	Kinetic Excitation Mechanisms for ION-Cyclotron Kinetic Alfvén Waves in Sun-Earth Connection. <i>Space Science Reviews</i> , 2003, 107, 387-401.	8.1	18
65	Nonlinear coupling of Alfvén waves with widely different cross-field wavelengths in space plasmas. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	18
66	Resonant Absorption of Surface Sausage and Surface Kink Modes under Photospheric Conditions. <i>Astrophysical Journal</i> , 2017, 850, 44.	4.5	18
67	Fast surface waves in an ideal Hall-magnetohydrodynamic plasma slab. <i>Physics of Plasmas</i> , 1996, 3, 4346-4354.	1.9	17
68	Magnetohydrodynamic Waves and Seismology of the Solar Atmosphere. <i>Space Science Reviews</i> , 2011, 158, 167-168.	8.1	15
69	Wave Pressure and Energy Cascade Rate of Kink Waves Computed with Elsässer Variables. <i>Astrophysical Journal</i> , 2020, 899, 100.	4.5	15
70	On the continuous spectrum of leaky magnetohydrodynamic modes and the associated quasimodes. <i>Physics of Plasmas</i> , 2007, 14, 052101.	1.9	14
71	On poloidal mode coupling in the continuous spectrum of 2D equilibria. <i>Solar Physics</i> , 1991, 133, 281-311.	2.5	13
72	MHD Seismology of a loop-like filament tube by observed kink waves. <i>Research in Astronomy and Astrophysics</i> , 2015, 15, 1713-1724.	1.7	12

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73	Shear Flow Instabilities in Low-Beta Space Plasmas. <i>Space Science Reviews</i> , 2005, 121, 343-351.	8.1	10
74	A simple numerical scheme for the computation of resonant Alfvén waves. <i>Solar Physics</i> , 1995, 161, 139-157.	2.5	9
75	Seismology of kink oscillations in coronal loops: Two decades of resonant damping. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 228-242.	0.0	9
76	Turbulent Dynamics of Kinetic Alfvén Waves in a Transient Flare Loop. <i>Physica Scripta</i> , 2000, T84, 194.	2.5	8
77	Mixed properties of magnetohydrodynamic waves undergoing resonant absorption in the cusp continuum. <i>Astronomy and Astrophysics</i> , 2021, 646, A86.	5.1	7
78	Damping of Slow Surface Kink Modes in Solar Photospheric Waveguides Modeled by One-dimensional Inhomogeneities. <i>Astrophysical Journal</i> , 2021, 908, 230.	4.5	7
79	Non-adiabatic discrete Alfvén waves in coronal loops and prominences. <i>Solar Physics</i> , 1993, 144, 267-281.	2.5	6
80	Resonant absorption: Transformation of compressive motions into vortical motions. <i>Astronomy and Astrophysics</i> , 2020, 641, A106.	5.1	6
81	Ultra-long and quite thin coronal loop without significant expansion. <i>Astronomy and Astrophysics</i> , 2020, 639, A114.	5.1	6
82	Acoustic Wave Properties in Footpoints of Coronal Loops in 3D MHD Simulations. <i>Astrophysical Journal</i> , 2021, 922, 225.	4.5	6
83	Linear coupling of electromagnetic and Jeans modes in self-gravitating plasma streams. <i>Physics of Plasmas</i> , 2002, 9, 1520-1525.	1.9	5
84	Resonant Absorption of MHD Waves in Magnetic Loops in the Solar Corona. , 1991, , 480-485.		5
85	Non-Linear Damping of Surface Alfvén Waves Due to Uniturbulence. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 8, .	2.8	3
86	Kinetic Excitation Mechanisms for Ion-Cyclotron Kinetic Alfvén Waves in Sun-Earth Connection. , 2003, , 387-401.		1
87	MHD Waves in Magnetic Flux Tubes. , 1996, , 61-83.		1
88	Linear and nonlinear waves in dilute plasmas. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	0
89	Foreword: Computing in Space and Astrophysical Plasmas. <i>Space Science Reviews</i> , 2005, 121, 1-2.	8.1	0
90	Damping of Torsional Modes in the Solar Corona. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0