

James A Klimchuk

List of Publications by Year in descending order

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143
papers

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	A Model for Solar Coronal Mass Ejections. <i>Astrophysical Journal</i> , 1999, 510, 485-493.	4.5	1,180
2	On Solving the Coronal Heating Problem. <i>Solar Physics</i> , 2006, 234, 41-77.	2.5	639
3	Three-dimensional Stereoscopic Analysis of Solar Active Region Loops. I.SOHO/EIT Observations at Temperatures of $(1.0\text{--}1.5) \times 10^6\text{K}$. <i>Astrophysical Journal</i> , 1999, 515, 842-867.	4.5	252
4	Highly Efficient Modeling of Dynamic Coronal Loops. <i>Astrophysical Journal</i> , 2008, 682, 1351-1362.	4.5	246
5	The magnetic field of solar prominences. <i>Astrophysical Journal</i> , 1994, 420, L41.	4.5	208
6	Magnetic Field and Plasma Scaling Laws: Their Implications for Coronal Heating Models. <i>Astrophysical Journal</i> , 2000, 530, 999-1015.	4.5	187
7	The Dynamic Formation of Prominence Condensations. <i>Astrophysical Journal</i> , 1999, 512, 985-991.	4.5	185
8	Key aspects of coronal heating. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140256.	3.4	168
9	Are Magnetic Dips Necessary for Prominence Formation?. <i>Astrophysical Journal</i> , 2001, 553, L85-L88.	4.5	161
10	Nanoflare Heating of the Corona Revisited. <i>Astrophysical Journal</i> , 2004, 605, 911-920.	4.5	157
11	Soft X-Ray Loops and Coronal Heating. <i>Astrophysical Journal</i> , 1995, 454, 499.	4.5	146
12	NEW SOLAR EXTREME-ULTRAVIOLET IRRADIANCE OBSERVATIONS DURING FLARES. <i>Astrophysical Journal</i> , 2011, 739, 59.	4.5	144
13	A Nanoflare Explanation for the Heating of Coronal Loops Observed by Yohkoh. <i>Astrophysical Journal</i> , 1997, 478, 799-806.	4.5	143
14	A model for the formation of solar prominences. <i>Astrophysical Journal</i> , 1991, 378, 372.	4.5	134
15	Nonthermal Spectral Line Broadening and the Nanoflare Model. <i>Astrophysical Journal</i> , 2006, 647, 1452-1465.	4.5	115
16	EVIDENCE FOR WIDESPREAD COOLING IN AN ACTIVE REGION OBSERVED WITH THE SDO ATMOSPHERIC IMAGING ASSEMBLY. <i>Astrophysical Journal</i> , 2012, 753, 35.	4.5	110
17	Structure of solar coronal loops: from miniature to large-scale. <i>Astronomy and Astrophysics</i> , 2013, 556, A104.	5.1	102
18	The possible role of MHD waves in heating the solar corona. <i>Astrophysical Journal</i> , 1994, 435, 482.	4.5	101

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19	PATTERNS OF NANOFLARE STORM HEATING EXHIBITED BY AN ACTIVE REGION OBSERVED WITH <i>SOLAR DYNAMICS OBSERVATORY</i> /ATMOSPHERIC IMAGING ASSEMBLY. <i>Astrophysical Journal</i> , 2011, 738, 24.	4.5	98
20	Three-dimensional Stereoscopic Analysis of Solar Active Region Loops. II. SOHO/EIT Observations at Temperatures of 1.5–2.5 MK. <i>Astrophysical Journal</i> , 2000, 531, 1129-1149.	4.5	98
21	A Self-consistent Model for the Resonant Heating of Coronal Loops: The Effects of Coupling with the Chromosphere. <i>Astrophysical Journal</i> , 1998, 493, 474-479.	4.5	95
22	ENTHALPY-BASED THERMAL EVOLUTION OF LOOPS. II. IMPROVEMENTS TO THE MODEL. <i>Astrophysical Journal</i> , 2012, 752, 161.	4.5	93
23	The Origin of High-Speed Motions and Threads in Prominences. <i>Astrophysical Journal</i> , 2006, 637, 531-540.	4.5	91
24	WHAT DOMINATES THE CORONAL EMISSION SPECTRUM DURING THE CYCLE OF IMPULSIVE HEATING AND COOLING?. <i>Astrophysical Journal</i> , Supplement Series, 2011, 194, 26.	7.7	87
25	Spectroscopic Diagnostics of Nanoflare-heated Loops. <i>Astrophysical Journal</i> , 2001, 553, 440-448.	4.5	86
26	<i>HINODE</i> X-RAY TELESCOPE DETECTION OF HOT EMISSION FROM QUIESCENT ACTIVE REGIONS: A NANOFLARE SIGNATURE?. <i>Astrophysical Journal</i> , 2009, 693, L131-L135.	4.5	85
27	EVIDENCE OF WIDESPREAD HOT PLASMA IN A NONFLARING CORONAL ACTIVE REGION FROM <i>HINODE</i> /X-RAY TELESCOPE. <i>Astrophysical Journal</i> , 2009, 698, 756-765.	4.5	84
28	An Explanation for the ‘Switch-On’ Nature of Magnetic Energy Release and Its Application to Coronal Heating. <i>Astrophysical Journal</i> , 2005, 622, 1191-1201.	4.5	79
29	CAN THERMAL NONEQUILIBRIUM EXPLAIN CORONAL LOOPS?. <i>Astrophysical Journal</i> , 2010, 714, 1239-1248.	4.5	76
30	The Magnetic Structure of Coronal Loops Observed by TRACE. <i>Astrophysical Journal</i> , 2006, 639, 459-474.	4.5	74
31	Achievements of Hinode in the first eleven years. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	69
32	EMISSION MEASURE DISTRIBUTION AND HEATING OF TWO ACTIVE REGION CORES. <i>Astrophysical Journal</i> , 2011, 740, 111.	4.5	68
33	Force-free magnetic fields - Is there a 'loss of equilibrium'?. <i>Astrophysical Journal</i> , 1989, 345, 1034.	4.5	68
34	DIAGNOSING THE TIME-DEPENDENCE OF ACTIVE REGION CORE HEATING FROM THE EMISSION MEASURE. I. LOW-FREQUENCY NANOFLARES. <i>Astrophysical Journal</i> , 2012, 758, 53.	4.5	65
35	Theory of Coronal Mass Ejections. <i>Geophysical Monograph Series</i> , 0, , 143-157.	0.1	64
36	Measurements of outflow from the base of solar coronal holes. <i>Astrophysical Journal</i> , 1982, 260, 326.	4.5	63

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37	The role of type II spicules in the upper solar atmosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	62
38	Scaling of heating rates in solar coronal loops. <i>Nature</i> , 1995, 377, 131-133.	27.8	59
39	A Transient Heating Model for Coronal Structure and Dynamics. <i>Astrophysical Journal</i> , 2003, 582, 486-494.	4.5	59
40	ENTHALPY-BASED THERMAL EVOLUTION OF LOOPS. III. COMPARISON OF ZERO-DIMENSIONAL MODELS. <i>Astrophysical Journal</i> , 2012, 758, 5.	4.5	58
41	Multi-wavelength observations and modelling of a canonical solar flare. <i>Astronomy and Astrophysics</i> , 2009, 494, 1127-1136.	5.1	55
42	Constraints on the Magnetic Field Geometry in Prominences. <i>Astrophysical Journal</i> , 2003, 593, 1187-1194.	4.5	54
43	MODELING THE LINE-OF-SIGHT INTEGRATED EMISSION IN THE CORONA: IMPLICATIONS FOR CORONAL HEATING. <i>Astrophysical Journal</i> , 2013, 771, 115.	4.5	54
44	A Comparison of Active Region Temperatures and Emission Measures Observed in Soft X-Rays and Microwaves and Implications for Coronal Heating. <i>Astrophysical Journal</i> , 1995, 448, 925.	4.5	53
45	Twisted Coronal Magnetic Loops. <i>Astrophysical Journal</i> , 2000, 542, 504-512.	4.5	52
46	The Occurrence Rate of Soft X-Ray Flares as a Function of Solar Activity. <i>Astrophysical Journal</i> , 1997, 474, 511-517.	4.5	49
47	A numerical study of the nonlinear thermal stability of solar loops. <i>Astrophysical Journal</i> , 1987, 320, 409.	4.5	49
48	Three-dimensional force-free magnetic fields and flare energy buildup. <i>Astrophysical Journal</i> , 1992, 385, 344.	4.5	49
49	The Long-Term Evolution of AR 7978: The Scalings of the Coronal Plasma Parameters with the Mean Photospheric Magnetic Field. <i>Astrophysical Journal</i> , 2003, 586, 579-591.	4.5	44
50	On the large-scale dynamics and magnetic structure of solar active regions. <i>Astrophysical Journal</i> , 1987, 323, 368.	4.5	44
51	The Inability of Steady-Flow Models to Explain the Extreme-Ultraviolet Coronal Loops. <i>Astrophysical Journal</i> , 2004, 603, 322-329.	4.5	43
52	Coronal Loop Heating by Nanoflares: The Impact of the Field-Aligned Distribution of the Heating on Loop Observations. <i>Astrophysical Journal</i> , 2005, 628, 1023-1030.	4.5	43
53	Prominence Formation by Localized Heating. <i>Astrophysical Journal</i> , 1998, 495, 485-490.	4.5	42
54	CAN THE DIFFERENTIAL EMISSION MEASURE CONSTRAIN THE TIMESCALE OF ENERGY DEPOSITION IN THE CORONA?. <i>Astrophysical Journal</i> , 2013, 774, 31.	4.5	42

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55	Solar Rotation Stereoscopy in Microwaves. <i>Astrophysical Journal</i> , 1995, 454, 512.	4.5	41
56	Coronal Seismology and the Propagation of Acoustic Waves along Coronal Loops. <i>Astrophysical Journal</i> , 2004, 616, 1232-1241.	4.5	40
57	DIAGNOSING THE TIME DEPENDENCE OF ACTIVE REGION CORE HEATING FROM THE EMISSION MEASURE. II. NANOFLARE TRAINS. <i>Astrophysical Journal</i> , 2013, 764, 193.	4.5	40
58	Episodic coronal heating. <i>Astrophysical Journal</i> , 1990, 356, L31.	4.5	40
59	WIDESPREAD NANOFLARE VARIABILITY DETECTED WITH <i>Hinode</i> X-RAY TELESCOPE IN A SOLAR ACTIVE REGION. <i>Astrophysical Journal</i> , 2011, 736, 111.	4.5	39
60	SPECTROSCOPIC OBSERVATIONS OF HOT LINES CONSTRAINING CORONAL HEATING IN SOLAR ACTIVE REGIONS. <i>Astrophysical Journal</i> , 2009, 696, 760-765.	4.5	37
61	ARE CHROMOSPHERIC NANOFLARES A PRIMARY SOURCE OF CORONAL PLASMA?. <i>Astrophysical Journal</i> , 2014, 791, 60.	4.5	37
62	The possible role of high-frequency waves in heating solar coronal loops. <i>Astrophysical Journal</i> , 1994, 435, 502.	4.5	36
63	The Long-Term Evolution of AR 7978: Testing Coronal Heating Models. <i>Astrophysical Journal</i> , 2003, 586, 592-605.	4.5	35
64	The practical application of the magnetic virial theorem. <i>Astrophysical Journal</i> , 1992, 385, 327.	4.5	35
65	EVIDENCE OF IMPULSIVE HEATING IN ACTIVE REGION CORE LOOPS. <i>Astrophysical Journal</i> , 2010, 723, 713-718.	4.5	33
66	On the Correlation between Coronal and Lower Transition Region Structures at Arcsecond Scales. <i>Astrophysical Journal</i> , 2001, 563, 374-380.	4.5	33
67	The Role of Asymmetries in Thermal Nonequilibrium. <i>Astrophysical Journal</i> , 2019, 884, 68.	4.5	32
68	Are Constant Loop Widths an Artifact of the Background and the Spatial Resolution?. <i>Astrophysical Journal</i> , 2008, 673, 586-597.	4.5	29
69	ASYMMETRIES IN CORONAL SPECTRAL LINES AND EMISSION MEASURE DISTRIBUTION. <i>Astrophysical Journal</i> , 2013, 779, 1.	4.5	29
70	A Survey of Nanoflare Properties in Active Regions Observed with the Solar Dynamics Observatory. <i>Astrophysical Journal</i> , 2017, 842, 108.	4.5	29
71	The Temporal Evolution of Coronal Loops Observed by GOES/SXI. <i>Astrophysical Journal</i> , 2007, 657, 1127-1136.	4.5	27
72	Power-law Statistics of Driven Reconnection in the Magnetically Closed Corona. <i>Astrophysical Journal</i> , 2018, 853, 82.	4.5	27

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73	Heating-related flows in cool solar loops. <i>Astrophysical Journal</i> , 1988, 328, 334.	4.5	27
74	Cylindrically symmetric force-free magnetic fields. <i>Astrophysical Journal</i> , 1992, 385, 738.	4.5	27
75	THE TRANSITION REGION RESPONSE TO A CORONAL NANOFLARE: FORWARD MODELING AND OBSERVATIONS IN <i>SDO/AIA</i> . <i>Astrophysical Journal</i> , 2015, 799, 58.	4.5	26
76	Dressing the Coronal Magnetic Extrapolations of Active Regions with a Parameterized Thermal Structure. <i>Astrophysical Journal</i> , 2018, 853, 66.	4.5	26
77	The Distinction Between Thermal Nonequilibrium and Thermal Instability. <i>Solar Physics</i> , 2019, 294, 1.	2.5	26
78	Shear-induced inflation of coronal magnetic fields. <i>Astrophysical Journal</i> , 1990, 354, 745.	4.5	26
79	A SIMPLE MODEL FOR THE EVOLUTION OF MULTI-STRANDED CORONAL LOOPS. <i>Astrophysical Journal</i> , 2010, 719, 591-601.	4.5	25
80	Cross Sections of Coronal Loop Flux Tubes. <i>Astrophysical Journal</i> , 2020, 900, 167.	4.5	25
81	EXPLOSIVE INSTABILITY AND CORONAL HEATING. <i>Astrophysical Journal</i> , 2009, 704, 1059-1064.	4.5	23
82	Magnetic Braids in Eruptions of a Spiral Structure in the Solar Atmosphere. <i>Astrophysical Journal</i> , 2018, 854, 80.	4.5	23
83	Coronal magnetic fields produced by photospheric shear. <i>Astrophysical Journal</i> , 1988, 335, 456.	4.5	23
84	Outflow from the sun's polar corona. <i>Astrophysical Journal</i> , 1983, 266, L65.	4.5	23
85	Static and Impulsive Models of Solar Active Regions. <i>Astrophysical Journal</i> , 2008, 689, 1406-1411.	4.5	22
86	ACTIVE REGION MOSS: DOPPLER SHIFTS FROM <i>Hinode</i> /EXTREME-ULTRAVIOLET IMAGING SPECTROMETER OBSERVATIONS. <i>Astrophysical Journal</i> , 2012, 753, 37.	4.5	22
87	ON THE ISOTHERMALITY OF SOLAR PLASMAS. <i>Astrophysical Journal</i> , 2010, 723, 320-328.	4.5	21
88	CHROMOSPHERIC NANOFLARES AS A SOURCE OF CORONAL PLASMA. II. REPEATING NANOFLARES. <i>Astrophysical Journal</i> , 2015, 811, 129.	4.5	21
89	ULTRAVIOLET AND EXTREME-ULTRAVIOLET EMISSIONS AT THE FLARE FOOTPOINTS OBSERVED BY ATMOSPHERE IMAGING ASSEMBLY. <i>Astrophysical Journal</i> , 2013, 774, 14.	4.5	20
90	Measurement of systematic outflow from the solar transition region underlying a coronal hole. <i>Astrophysical Journal</i> , 1981, 247, L135.	4.5	20

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91	TWO-DIMENSIONAL CELLULAR AUTOMATON MODEL FOR THE EVOLUTION OF ACTIVE REGION CORONAL PLASMAS. <i>Astrophysical Journal</i> , 2015, 799, 128.	4.5	19
92	SIGNATURES OF STEADY HEATING IN TIME LAG ANALYSIS OF CORONAL EMISSION. <i>Astrophysical Journal</i> , 2016, 828, 76.	4.5	19
93	The Role of Magnetic Helicity in Coronal Heating. <i>Astrophysical Journal</i> , 2019, 883, 26.	4.5	19
94	The Coronal Veil. <i>Astrophysical Journal</i> , 2022, 927, 1.	4.5	19
95	HOW GAS-DYNAMIC FLARE MODELS POWERED BY PETSCHKE RECONNECTION DIFFER FROM THOSE WITH AD HOC ENERGY SOURCES. <i>Astrophysical Journal</i> , 2015, 813, 131.	4.5	18
96	The Onset of 3D Magnetic Reconnection and Heating in the Solar Corona. <i>Astrophysical Journal</i> , 2020, 891, 62.	4.5	18
97	MHD modeling of coronal loops: the transition region throat. <i>Astronomy and Astrophysics</i> , 2014, 564, A48.	5.1	18
98	A Model for Bright Extreme-Ultraviolet Knots in Solar Flare Loops. <i>Astrophysical Journal</i> , 2004, 614, 1022-1027.	4.5	17
99	The Cross-Field Thermal Structure of Coronal Loops from Triple-Filter TRACE Observations. <i>Astrophysical Journal</i> , 2007, 667, 591-601.	4.5	17
100	CORE AND WING DENSITIES OF ASYMMETRIC CORONAL SPECTRAL PROFILES: IMPLICATIONS FOR THE MASS SUPPLY OF THE SOLAR CORONA. <i>Astrophysical Journal</i> , 2014, 781, 58.	4.5	17
101	EMISSION MEASURE DISTRIBUTION FOR DIFFUSE REGIONS IN SOLAR ACTIVE REGIONS. <i>Astrophysical Journal</i> , 2014, 795, 76.	4.5	15
102	Hard X-Ray Constraints on Small-scale Coronal Heating Events. <i>Astrophysical Journal</i> , 2018, 864, 5.	4.5	15
103	On the Temperature Emission Measure Distribution in Stellar Coronae. <i>Astrophysical Journal</i> , 2006, 643, 438-443.	4.5	14
104	Coronal energy release via ideal three-dimensional instability three-dimensional instability. <i>Advances in Space Research</i> , 2003, 32, 1029-1034.	2.6	13
105	UNRAVELLING THE COMPONENTS OF A MULTI-THERMAL CORONAL LOOP USING MAGNETOHYDRODYNAMIC SEISMOLOGY. <i>Astrophysical Journal</i> , 2017, 834, 103.	4.5	13
106	High Resolution Soft X-ray Spectroscopy and the Quest for the Hot (5–10 MK) Plasma in Solar Active Regions. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	13
107	Cross-Sectional Properties of Coronal Loops. , 2001, , 53-75.		13
108	MHD modelling of coronal loops: injection of high-speed chromospheric flows. <i>Astronomy and Astrophysics</i> , 2014, 567, A70.	5.1	12

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109	A NANOFIARE-BASED CELLULAR AUTOMATON MODEL AND THE OBSERVED PROPERTIES OF THE CORONAL PLASMA. <i>Astrophysical Journal</i> , 2016, 828, 86.	4.5	11
110	Spectroscopic Constraints on the Cross-sectional Asymmetry and Expansion of Active Region Loops. <i>Astrophysical Journal</i> , 2019, 885, 7.	4.5	11
111	Magnetic properties of Civ Doppler shift patterns. <i>Solar Physics</i> , 1989, 119, 19-34.	2.5	10
112	Intensity Conserving Spectral Fitting. <i>Solar Physics</i> , 2016, 291, 55-65.	2.5	10
113	Static and dynamic solar coronal loops with cross-sectional area variations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 4420-4429.	4.4	9
114	On Doppler Shift and Its Center-to-limb Variation in Active Regions in the Transition Region. <i>Astrophysical Journal</i> , 2019, 886, 46.	4.5	7
115	How Turbulent is the Magnetically Closed Corona?. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	7
116	Asymptotic forms for the energy of force-free magnetic field ion figurations of translational symmetry. <i>Astrophysical Journal</i> , 1994, 431, 870.	4.5	7
117	COMMISSION 10: SOLAR ACTIVITY. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 79-103.	0.0	5
118	Width Variations along Coronal Loops Observed by Trace. , 2001, , 77-92.		5
119	Magnetic shear. IV - Hale regions 16740, 16815, and 16850. <i>Astrophysical Journal</i> , 1986, 303, 884.	4.5	5
120	Transition Region Contribution to AIA Observations in the Context of Coronal Heating. <i>Astrophysical Journal</i> , 2020, 905, 115.	4.5	5
121	<title>STEREO: a solar terrestrial event observer mission concept</title>. , 1996, , .		4
122	<title>Report on new mission concept study: Stereo X-Ray Corona Imager mission</title>. , 1998, , .		4
123	DC coronal heating and the nonlinear evolution of current sheets. <i>Advances in Space Research</i> , 2006, 37, 1342-1347.	2.6	4
124	Magnetic energy release on the Sun. <i>Nature</i> , 1997, 386, 760-761.	27.8	3
125	Coronal Heating. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	3
126	COMMISSION 10: SOLAR ACTIVITY. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 69-80.	0.0	3

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127	Nonthermal Velocity in the Transition Region of Active Regions and Its Center-to-limb Variation. <i>Astrophysical Journal</i> , 2021, 913, 151.	4.5	3
128	Properties of EUV and X-ray emission in solar active regions. <i>Astronomy and Astrophysics</i> , 2001, 365, 186-197.	5.1	3
129	The magnetic and velocity structure adjacent to solar active regions. <i>Astrophysical Journal</i> , 1987, 318, 437.	4.5	3
130	Impact of 3D Structure on Magnetic Reconnection. <i>Astrophysical Journal</i> , 2022, 927, 196.	4.5	3
131	Simulated SXT observations of coronal loops. , 1991, , 297-301.		2
132	Comments on 'Possible Role of MHD Waves in Heating the Solar Corona' by Dwivedi and Pandey. <i>Solar Physics</i> , 2004, 221, 47-49.	2.5	2
133	Signatures of Type III Solar Radio Bursts from Nanoflares: Modeling. <i>Astrophysical Journal</i> , 2021, 922, 128.	4.5	2
134	Flows in Enthalpy-based Thermal Evolution of Loops. <i>Astrophysical Journal</i> , 2022, 924, 13.	4.5	1
135	An Observational Test for Coronal Heating Models. <i>Symposium - International Astronomical Union</i> , 2004, 219, 473-477.	0.1	0
136	Division II: Sun and Heliosphere. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 69-74.	0.0	0
137	Commission 10: Solar Activity. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 75-88.	0.0	0
138	DIVISION II: SUN AND HELIOSPHERE. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 101-106.	0.0	0
139	DIVISION II: SUN AND HELIOSPHERE. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 73-78.	0.0	0
140	DIVISION II: SUN and HELIOSPHERE. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 146-157.	0.0	0
141	A cellular automaton model for coronal heating. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 433-436.	0.0	0
142	DIVISION II: SUN and HELIOSPHERE. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 61-68.	0.0	0
143	The Heating of Soft X-Ray Coronal Loops. , 1996, , 39-40.		0