List of Publications by Year in descending order

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KANYA KUSANO

#	Article	lF	CITATIONS
1	Modeling the Transport and Deposition of <sup>10</sup> Be Produced by the Strongest Solar Proton Event During the Holocene. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	4
2	Generation of Solar-like Differential Rotation. Astrophysical Journal, 2022, 933, 199.	4.5	22
3	Thickness-dependent thermoelectric properties of Si1â^' <i>x</i> Ge <i>x</i> films formed by Al-induced layer exchange. Journal of Applied Physics, 2021, 129, .	2.5	10
4	Data-driven MHD Simulation of Successive Solar Plasma Eruptions. Astrophysical Journal, 2021, 909, 155.	4.5	15
5	Magnetic Helicity Flux across Solar Active Region Photospheres. II. Association of Hemispheric Sign Preference with Flaring Activity during Solar Cycle 24. Astrophysical Journal, 2021, 911, 79.	4.5	6
6	Eruptivity in Solar Flares: The Challenges of Magnetic Flux Ropes. Astrophysical Journal, 2021, 913, 124.	4.5	5
7	PSTEP: project for solar–terrestrial environment prediction. Earth, Planets and Space, 2021, 73, .	2.5	10
8	Solar differential rotation reproduced with high-resolution simulation. Nature Astronomy, 2021, 5, 1100-1102.	10.1	31
9	A physics-based method that can predict imminent large solar flares. Science, 2020, 369, 587-591.	12.6	65
10	Lagrangian chaotic saddles and objective vortices in solar plasmas. Physical Review E, 2020, 102, 060201.	2.1	12
11	A New Parameter of the Photospheric Magnetic Field to Distinguish Eruptive-flare Producing Solar Active Regions. Astrophysical Journal, 2020, 894, 20.	4.5	10
12	Zn-induced layer exchange of p- and n-type nanocrystalline SiGe layers for flexible thermoelectrics. Applied Physics Letters, 2020, 116, .	3.3	13
13	Serial Flaring in an Active Region: Exploring Why Only One Flare Is Eruptive. Astrophysical Journal, 2020, 890, 84.	4.5	5
14	A Comparison of Flare Forecasting Methods. IV. Evaluating Consecutive-day Forecasting Patterns. Astrophysical Journal, 2020, 890, 124.	4.5	33
15	A Magnetohydrodynamic Relaxation Method for Non-force-free Magnetic Field in Magnetohydrostatic Equilibrium. Astrophysical Journal, Supplement Series, 2020, 247, 6.	7.7	8
16	Forward Modeling of Particle Acceleration and Transport in an Individual Solar Flare. Astrophysical Journal, 2020, 902, 147.	4.5	10
17	Magnetic Helicity Flux across Solar Active Region Photospheres. I. Hemispheric Sign Preference in Solar Cycle 24. Astrophysical Journal, 2020, 904, 6.	4.5	6
18	The Effects of Oscillations and Collisions of Emerging Bipolar Regions on the Triggering of Solar Flares. Astrophysical Journal, 2020, 900, 65.	4.5	0

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19	A Comparison of Flare Forecasting Methods. III. Systematic Behaviors of Operational Solar Flare Forecasting Systems. Astrophysical Journal, 2019, 881, 101.	4.5	42
20	A Comparison of Flare Forecasting Methods. II. Benchmarks, Metrics, and Performance Results for Operational Solar Flare Forecasting Systems. Astrophysical Journal, Supplement Series, 2019, 243, 36.	7.7	75
21	Supergranular turbulence in the quiet Sun: Lagrangian coherent structures. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3076-3088.	4.4	19
22	Mechanism of non-steady Petschek-type reconnection with uniform resistivity. Physics of Plasmas, 2019, 26, .	1.9	2
23	Onset Mechanism of M6.5 Solar Flare Observed in Active Region 12371. Astrophysical Journal, 2019, 887, 263.	4.5	10
24	Weak influence of near-surface layer on solar deep convection zone revealed by comprehensive simulation from base to surface. Science Advances, 2019, 5, eaau2307.	10.3	36
25	Coronal mass ejection hits mercury: A.I.K.E.F. hybrid-code results compared to MESSENGER data. Planetary and Space Science, 2018, 153, 89-99.	1.7	35
26	Formation and dynamics of a solar eruptive flux tube. Nature Communications, 2018, 9, 174.	12.8	55
27	Evaluation of Applicability of a Flare Trigger Model Based on a Comparison of Geometric Structures. Astrophysical Journal, 2018, 856, 43.	4.5	7
28	Onset mechanism of solar eruptions. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 180, 3-8.	1.6	1
29	A Study of Magnetic Field Characteristics of the Flaring Active Region Based on Nonlinear Force-free Field Extrapolation. Astrophysical Journal, 2018, 863, 162.	4.5	11
30	The Triggering of the 2014 March 29 Filament Eruption. Astrophysical Journal, 2018, 860, 163.	4.5	15
31	SIMULATION STUDY OF HEMISPHERIC PHASE-ASYMMETRY IN THE SOLAR CYCLE. Astrophysical Journal, 2017, 835, 84.	4.5	13
32	Study on Precursor Activity of the X1.6 FlareÂin the Great AR 12192 with SDO, IRIS, and Hinode. Astrophysical Journal, 2017, 840, 116.	4.5	23
33	Magnetohydrodynamic Simulations for Studying Solar Flare Trigger Mechanism. Astrophysical Journal, 2017, 842, 86.	4.5	24
34	Triggering Process of the X1.0 Three-ribbon Flare in the Great Active Region NOAA 12192. Astrophysical Journal, 2017, 838, 134.	4.5	24
35	High-resolution observations of flare precursors in the low solar atmosphere. Nature Astronomy, 2017, 1, .	10.1	74
36	Taylor problem and onset of plasmoid instability in the Hall-magnetohydrodynamics. Physics of Plasmas, 2017, 24, 102116.	1.9	2

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37	Low temperature synthesis of highly oriented p-type Si1- <i>x</i> Ge <i>x</i> ( <i>x</i> : 0–1) on an insulator by Al-induced layer exchange. Journal of Applied Physics, 2017, 122, .	2.5	18
38	Double Arc Instability in the Solar Corona. Astrophysical Journal, 2017, 843, 101.	4.5	43
39	Improvement of solar-cycle prediction: Plateau of solar axial dipole moment. Astronomy and Astrophysics, 2017, 607, L2.	5.1	44
40	The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and Eruptions?. Solar Physics, 2016, 291, 1761-1782.	2.5	69
41	STRUCTURE AND STABILITY OF MAGNETIC FIELDS IN SOLAR ACTIVE REGION 12192 BASED ON NONLINEAR FORCE-FREE FIELD MODELING. Astrophysical Journal, 2016, 818, 168.	4.5	33
42	Fast magnetic reconnection supported by sporadic small-scale Petschek-type shocks. Physics of Plasmas, 2015, 22, .	1.9	24
43	Fabrication of Scalable Indoor Light Energy Harvester and Study for Agricultural IoT Applications. Journal of Physics: Conference Series, 2015, 660, 012110.	0.4	3
44	Nonlinear regimes of forced magnetic reconnection. Physics of Plasmas, 2015, 22, .	1.9	9
45	No Major Solar Flares but the Largest Geomagnetic Storm in the Present Solar Cycle. Space Weather, 2015, 13, 365-367.	3.7	88
46	Comparison between Hinode/SOT and SDO/HMI, AIA data for the study of the solar flare trigger process. Publication of the Astronomical Society of Japan, 2014, 66, .	2.5	14
47	Coronal behavior before the large flare onset. Publication of the Astronomical Society of Japan, 2014, 66, .	2.5	16
48	NONLINEAR FORCE-FREE EXTRAPOLATION OF THE CORONAL MAGNETIC FIELD BASED ON THE MAGNETOHYDRODYNAMIC RELAXATION METHOD. Astrophysical Journal, 2014, 780, 101.	4.5	38
49	Formation of a Flare-Productive Active Region: Observation and Numerical Simulation of NOAA AR 11158. Solar Physics, 2014, 289, 3351-3369.	2.5	44
50	A PLASMA Î <sup>2</sup> TRANSITION WITHIN A PROPAGATING FLUX ROPE. Astrophysical Journal, 2013, 779, 142.	4.5	8
51	Comment on "Supersonic regime of the Hall-magnetohydrodynamics resistive tearing instability― [Phys. Plasmas 19, 072519 (2012)]. Physics of Plasmas, 2013, 20, 014703.	1.9	1
52	Onset of Hall-mediated magnetic reconnection in weakly ionized astrophysical plasmas. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1789-1791.	4.4	2
53	THE MAGNETIC SYSTEMS TRIGGERING THE M6.6 CLASS SOLAR FLARE IN NOAA ACTIVE REGION 11158. Astrophysical Journal, 2013, 773, 128.	4.5	44
54	Is Something Wrong With the Present Solar Maximum?. Space Weather, 2013, 11, 140-141.	3.7	12

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55	STUDY OF MAGNETIC HELICITY INJECTION IN THE ACTIVE REGION NOAA 9236 PRODUCING MULTIPLE FLARE-ASSOCIATED CORONAL MASS EJECTION EVENTS. Astrophysical Journal, 2013, 778, 13.	4.5	16
56	MAGNETIC FIELD STRUCTURES TRIGGERING SOLAR FLARES AND CORONAL MASS EJECTIONS. Astrophysical Journal, 2012, 760, 31.	4.5	162
57	DECORRELATION TIMES OF PHOTOSPHERIC FIELDS AND FLOWS. Astrophysical Journal, 2012, 747, 130.	4.5	15
58	A STUDY OF THE HELIOCENTRIC DEPENDENCE OF SHOCK STANDOFF DISTANCE AND GEOMETRY USING 2.5D MAGNETOHYDRODYNAMIC SIMULATIONS OF CORONAL MASS EJECTION DRIVEN SHOCKS. Astrophysical Journal, 2012, 759, 103.	4.5	17
59	PREPROCESSING MAGNETIC FIELDS WITH CHROMOSPHERIC LONGITUDINAL FIELDS. Astrophysical Journal, 2012, 752, 126.	4.5	16
60	Observational Tracking of the 2D Structure of Coronal Mass Ejections Between the Sun and 1 AU. Solar Physics, 2012, 279, 517-535.	2.5	23
61	EVOLUTION OF CORONAL MASS EJECTION MORPHOLOGY WITH INCREASING HELIOCENTRIC DISTANCE. II. IN SITU OBSERVATIONS. Astrophysical Journal, 2011, 732, 117.	4.5	34
62	EVOLUTION OF CORONAL MASS EJECTION MORPHOLOGY WITH INCREASING HELIOCENTRIC DISTANCE. I. GEOMETRICAL ANALYSIS. Astrophysical Journal, 2011, 731, 109.	4.5	41
63	CORONAL ELECTRON DISTRIBUTION IN SOLAR FLARES: DRIFT-KINETIC MODEL. Astrophysical Journal, 2011, 732, 111.	4.5	12
64	TWIST AND CONNECTIVITY OF MAGNETIC FIELD LINES IN THE SOLAR ACTIVE REGION NOAA 10930. Astrophysical Journal, 2011, 738, 161.	4.5	71
65	The SOLAR-C mission: current status. , 2011, , .		7
66	Discussion on Momentum Transfer Difficulty of a Magnetoplasma Sail. Journal of Propulsion and Power, 2011, 27, 1149-1153.	2.2	8
67	A Comparative Study of Divergence-Cleaning Techniques for Multi-Dimensional MHD Schemes. Plasma and Fusion Research, 2011, 6, 2401124-2401124.	0.7	8
68	Effect of cloud's characteristics on climate: A one-dimensional radiative-convective equilibrium model study. , 2011, , .		0
69	MAGNETOHYDRODYNAMIC MODELING FOR A FORMATION PROCESS OF CORONAL MASS EJECTIONS: INTERACTION BETWEEN AN EJECTING FLUX ROPE AND AN AMBIENT FIELD. Astrophysical Journal, 2010, 718, 1305-1314.	4.5	56
70	The HLLD Approximate Riemann Solver for Magnetospheric Simulation. IEEE Transactions on Plasma Science, 2010, 38, 2236-2242.	1.3	18
71	The superâ€droplet method for the numerical simulation of clouds and precipitation: a particleâ€based and probabilistic microphysics model coupled with a nonâ€hydrostatic model. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1307-1320.	2.7	155
72	Threeâ€dimensional MHD modeling of the solar wind structures associated with 13 December 2006 coronal mass ejection. Journal of Geophysical Research, 2009, 114, .	3.3	62

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73	Continuum/particle interlocked simulation of gas detonation. , 2009, , 215-220.		Ο
74	The Earth Simulator Center. JAMSTEC Report of Research and Development, 2009, 9, 1_75-1_135.	0.2	1
75	A quantitative MHD study of the relation among arcade shearing, flux rope formation, and eruption due to the tearing instability. Journal of Geophysical Research, 2008, 113, .	3.3	17
76	Simulation study of the symmetry-breaking instability and the dipole field reversal in a rotating spherical shell dynamo. Physics of Plasmas, 2008, 15, .	1.9	27
77	Nonlinear Forceâ€free Field Modeling of a Solar Active Region around the Time of a Major Flare and Coronal Mass Ejection. Astrophysical Journal, 2008, 675, 1637-1644.	4.5	254
78	Tests and Comparisons of Velocityâ€Inversion Techniques. Astrophysical Journal, 2007, 670, 1434-1452.	4.5	103
79	Multi-scale plasma simulation by the interlocking of magnetohydrodynamic model and particle-in-cell kinetic model. Journal of Computational Physics, 2007, 227, 1340-1352.	3.8	40
80	Macro-micro Interlocked Simulation for Multiscale Phenomena. Lecture Notes in Computer Science, 2007, , 914-921.	1.3	5
81	Simulation study of the Solar flare onset mechanism and the self-organization in the Solar coronal plasma. Journal of Plasma Physics, 2006, 72, 979.	2.1	0
82	Virtual reality visualization by CAVE with VFIVE and VTK. Journal of Plasma Physics, 2006, 72, 1069.	2.1	14
83	MHD–PIC connection model in a magnetosphere–ionosphere coupling system. Journal of Plasma Physics, 2006, 72, 945.	2.1	9
84	Threeâ€dimensional Simulation Study of Flux Rope Dynamics in the Solar Corona. Astrophysical Journal, 2006, 645, 742-756.	4.5	29
85	Nonlinear effects on magnetic energy release by forced magnetic reconnection: Long wavelength perturbations. Physics of Plasmas, 2006, 13, 052902.	1.9	1
86	Magnetic Helicity Injection and Sigmoidal Coronal Loops. Astrophysical Journal, 2005, 624, 1072-1079.	4.5	27
87	Simulation Study of the Formation Mechanism of Sigmoidal Structure in the Solar Corona. Astrophysical Journal, 2005, 631, 1260-1269.	4.5	44
88	A Statistical Study of the Correlation between Magnetic Helicity Injection and Soft Xâ€Ray Activity in Solar Active Regions. Astrophysical Journal, 2005, 620, 1069-1084.	4.5	22
89	Generation and Annihilation of Magnetic Helicity in Active Regions. Highlights of Astronomy, 2005, 13, 113-116.	0.0	0
90	A multi-state HLL approximate Riemann solver for ideal magnetohydrodynamics. Journal of Computational Physics, 2005, 208, 315-344.	3.8	522

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91	Solar coronal heating by forced magnetic reconnection: Multiple reconnection events. Physics of Plasmas, 2005, 12, 012904.	1.9	18
92	Study of the Relationship between Magnetic Helicity and Solar Coronal Activity. Proceedings of the International Astronomical Union, 2004, 2004, 256.	0.0	0
93	The Trigger Mechanism of Solar Flares in a Coronal Arcade with Reversed Magnetic Shear. Astrophysical Journal, 2004, 610, 537-549.	4.5	151
94	Measurement of magnetic helicity flux into the solar corona. Advances in Space Research, 2003, 32, 1917-1922.	2.6	17
95	Annihilation of magnetic helicity: A new model for solar flare onset. Advances in Space Research, 2003, 32, 1931-1936.	2.6	36
96	Relation between magnetic helicity injection and flare activities in active region NOAA 8100. Advances in Space Research, 2003, 32, 1949-1952.	2.6	23
97	Prospect for Multiple Time and Spatial Scale Simulation Research in Astrophysical Plasma Phenomena: Multiple Scale Simulation of Magnetic Reconnection Phenomena in the Solar Corona. Journal of Plasma and Fusion Research, 2003, 79, 496-503.	0.4	1
98	Measurement of Magnetic Helicity Injection and Free Energy Loading into the Solar Corona. Astrophysical Journal, 2002, 577, 501-512.	4.5	202
99	Numerical Study of Threeâ€dimensional Magnetohydrodynamic Instability in the Solar Coronal Magnetic Arcades. Astrophysical Journal, 2002, 571, 532-539.	4.5	13
100	Effect of Density Stratification on the Thermal Convection in a Rotating Spherical Shell. Astrophysical Journal, 2002, 581, 745-759.	4.5	5
101	A global MHD simulation of the Jovian magnetosphere interacting with/without the interplanetary magnetic field. Journal of Geophysical Research, 2001, 106, 10723-10742.	3.3	15
102	Three-dimensional simulation study of magnetic reconnection in the solar corona. Earth, Planets and Space, 2001, 53, 491-494.	2.5	0
103	Numerical study of nonlinear forced magnetic reconnection. Physics of Plasmas, 2001, 8, 132-138.	1.9	7
104	Nonlinear dynamics of magnetic buoyancy instabilities in a sheared magnetic field. Physics of Plasmas, 1998, 5, 2582-2589.	1.9	14
105	Bifurcation-Transition Dynamics in Solar Coronal Plasma. Astrophysics and Space Science Library, 1998, , 185-186.	2.7	0
106	Threeâ€dimensional Simulation Study of the Magnetohydrodynamic Relaxation Process in the Solar Corona. II Astrophysical Journal, 1997, 474, 782-789.	4.5	4
107	MHD simulation of a rapidly rotating magnetosphere interacting with the external plasma flow. Geophysical Research Letters, 1997, 24, 2627-2630.	4.0	14
108	Computer Simulations of Pulsed-Laser Induced Coherent Plasma Oscillations in GaAs Crystals. Journal of the Physical Society of Japan, 1996, 65, 803-810.	1.6	5

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109	Bifurcation and Stability of Coronal Magnetic Arcades in a Linear Force-free Field. Astrophysical Journal, 1996, 461, 415.	4.5	40
110	Bifurcation and Stability of the Coronal Magnetic Field. , 1996, , 303-304.		0
111	Three Dimensional Simulation Study of the Magnetohydrodynamic Relaxation Process in the Solar Corona. , 1996, , 587-588.		Ο
112	A solar flare triggering mechanism based on the Woltjer-Taylor minimum energy principle. Astrophysical Journal, 1995, 441, 942.	4.5	71
113	Three-dimensional simulation study of the magnetohydrodynamic relaxation process in the solar corona. 1: Spontaneous generation of Taylor-Heyvaerts-Priest state. Astrophysical Journal, 1994, 433, 361.	4.5	22
114	Energy conversion processes in the startingâ€up phase of externally driven reconnection. Physics of Fluids B, 1993, 5, 357-364.	1.7	2
115	Role of compressibility on driven magnetic reconnection. Physics of Fluids B, 1992, 4, 450-457.	1.7	34
116	Simulation study on double reconnection in the ultra-low-q configuration. Nuclear Fusion, 1991, 31, 179-183.	3.5	4
117	MHD simulation of the toroidal phase locking mechanism in a reversed field pinch plasma. Nuclear Fusion, 1991, 31, 1923-1932.	3.5	25
118	Computer Simulation-Trends in Highly Nonlinear Physics. 2. Macroscopic Nonlinear Phenomena. 2-2. Nonlinear Physics in Reversed-Field Pinch KakuyūgŕKenkyū, 1991, 65, 528-543.	0.1	0
119	Simulation study of the self-sustainment mechanism in the reversed field pinch configuration. Nuclear Fusion, 1990, 30, 2075-2096.	3.5	64
120	Global and local relaxations in magnetohydrodynamic plasmas. Physics of Fluids B, 1989, 1, 255-257.	1.7	12
121	Simulation study of ultra-low-q discharge process. Nuclear Fusion, 1988, 28, 89-98.	3.5	13
122	Non-linear coupling effects on the relaxation process in the reversed field pinch. Nuclear Fusion, 1987, 27, 821-832.	3.5	55
123	Observation of ultra low q equilibrium. Nuclear Fusion, 1987, 27, 1169-1173.	3.5	13
124	Spontaneous formation of magnetohydrodynamic equilibrium profiles: Tokamaks, reversed-field pinches, and their intermediates. Physics of Fluids, 1987, 30, 2465.	1.4	20
125	Simulation Study of Relaxation Process in the Finite $\hat{I}^2$ Reversed-Field Pinch. Journal of the Physical Society of Japan, 1987, 56, 963-972.	1.6	10
126	Simulation study of the self-reversal process in the reversed-field pinch based on a non-linearly driven reconnection model. Nuclear Fusion, 1986, 26, 1051-1061.	3.5	57

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127	Nonlinear driven reconnection in the reversed-field pinch. Physical Review Letters, 1985, 54, 808-810.	7.8	38
128	Magnetic Helicity and Stability in Solar Corona. Geophysical Monograph Series, 0, , 149-156.	0.1	2