

Shin Toriumi

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,603
citations

304743

22
h-index

289244

40
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all docs

44
docs citations

44
times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	MAGNETIC FIELD STRUCTURES TRIGGERING SOLAR FLARES AND CORONAL MASS EJECTIONS. <i>Astrophysical Journal</i> , 2012, 760, 31.	4.5	162
2	Flare-productive active regions. <i>Living Reviews in Solar Physics</i> , 2019, 16, 3.	22.0	162
3	MAGNETIC PROPERTIES OF SOLAR ACTIVE REGIONS THAT GOVERN LARGE SOLAR FLARES AND ERUPTIONS. <i>Astrophysical Journal</i> , 2017, 834, 56.	4.5	134
4	Solar Ultraviolet Bursts. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	80
5	The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and Eruptions?. <i>Solar Physics</i> , 2016, 291, 1761-1782.	2.5	69
6	Achievements of Hinode in the first eleven years. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	69
7	Temporal and Spatial Evolutions of a Large Sunspot Group and Great Auroral Storms Around the Carrington Event in 1859. <i>Space Weather</i> , 2019, 17, 1553-1569.	3.7	68
8	LIGHT BRIDGE IN A DEVELOPING ACTIVE REGION. I. OBSERVATION OF LIGHT BRIDGE AND ITS DYNAMIC ACTIVITY PHENOMENA. <i>Astrophysical Journal</i> , 2015, 811, 137.	4.5	64
9	Numerical Simulations of Flare-productive Active Regions: δ -sunspots, Sheared Polarity Inversion Lines, Energy Storage, and Predictions. <i>Astrophysical Journal</i> , 2017, 850, 39.	4.5	54
10	LIGHT BRIDGE IN A DEVELOPING ACTIVE REGION. II. NUMERICAL SIMULATION OF FLUX EMERGENCE AND LIGHT BRIDGE FORMATION. <i>Astrophysical Journal</i> , 2015, 811, 138.	4.5	52
11	THE MAGNETIC SYSTEMS TRIGGERING THE M6.6 CLASS SOLAR FLARE IN NOAA ACTIVE REGION 11158. <i>Astrophysical Journal</i> , 2013, 773, 128.	4.5	44
12	Formation of a Flare-Productive Active Region: Observation and Numerical Simulation of NOAA AR 11158. <i>Solar Physics</i> , 2014, 289, 3351-3369.	2.5	44
13	The Great Space Weather Event during 1872 February Recorded in East Asia. <i>Astrophysical Journal</i> , 2018, 862, 15.	4.5	44
14	Lifetimes and Emergence/Decay Rates of Star Spots on Solar-type Stars Estimated by Kepler Data in Comparison with Those of Sunspots. <i>Astrophysical Journal</i> , 2019, 871, 187.	4.5	44
15	Strong Transverse Photosphere Magnetic Fields and Twist in Light Bridge Dividing Delta Sunspot of Active Region 12673. <i>Research Notes of the AAS</i> , 2018, 2, 8.	0.7	41
16	Various Local Heating Events in the Earliest Phase of Flux Emergence. <i>Astrophysical Journal</i> , 2017, 836, 63.	4.5	36
17	The extreme space weather event in September 1909. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 4083-4099.	4.4	35
18	NUMERICAL EXPERIMENTS ON THE TWO-STEP EMERGENCE OF TWISTED MAGNETIC FLUX TUBES IN THE SUN. <i>Astrophysical Journal</i> , 2011, 735, 126.	4.5	31

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19	Spontaneous Generation of δ -sunspots in Convective Magnetohydrodynamic Simulation of Magnetic Flux Emergence. <i>Astrophysical Journal Letters</i> , 2019, 886, L21.	8.3	31
20	TWO-STEP EMERGENCE OF THE MAGNETIC FLUX SHEET FROM THE SOLAR CONVECTION ZONE. <i>Astrophysical Journal</i> , 2010, 714, 505-516.	4.5	28
21	Comparative Study of Data-driven Solar Coronal Field Models Using a Flux Emergence Simulation as a Ground-truth Data Set. <i>Astrophysical Journal</i> , 2020, 890, 103.	4.5	26
22	STATISTICAL ANALYSIS OF THE HORIZONTAL DIVERGENT FLOW IN EMERGING SOLAR ACTIVE REGIONS. <i>Astrophysical Journal</i> , 2014, 794, 19.	4.5	24
23	Large-scale 3D MHD simulation on the solar flux emergence and the small-scale dynamic features in an active region. <i>Astronomy and Astrophysics</i> , 2012, 539, A22.	5.1	23
24	Sun-as-a-star Spectral Irradiance Observations of Transiting Active Regions. <i>Astrophysical Journal</i> , 2020, 902, 36.	4.5	22
25	DETECTION OF THE HORIZONTAL DIVERGENT FLOW PRIOR TO THE SOLAR FLUX EMERGENCE. <i>Astrophysical Journal</i> , 2012, 751, 154.	4.5	21
26	Temporal Evolution of Spatially Resolved Individual Star Spots on a Planet-hosting Solar-type Star: Kepler-17. <i>Astrophysical Journal</i> , 2020, 891, 103.	4.5	21
27	PROBING THE SHALLOW CONVECTION ZONE: RISING MOTION OF SUBSURFACE MAGNETIC FIELDS IN THE SOLAR ACTIVE REGION. <i>Astrophysical Journal Letters</i> , 2013, 770, L11.	8.3	20
28	The Direct Relation between the Duration of Magnetic Reconnection and the Evolution of GOES Light Curves in Solar Flares. <i>Astrophysical Journal</i> , 2017, 851, 4.	4.5	19
29	The Solar-C_EUVST mission. , 2019, , .		17
30	Dependence of the Magnetic Energy of Solar Active Regions on the Twist Intensity of the Initial Flux Tubes. <i>Publication of the Astronomical Society of Japan</i> , 2011, 63, 407-415.	2.5	13
31	Universal Scaling Laws for Solar and Stellar Atmospheric Heating. <i>Astrophysical Journal</i> , 2022, 927, 179.	4.5	13
32	Revisiting Kunitomo's Sunspot Drawings During 1835-1836 in Japan. <i>Solar Physics</i> , 2019, 294, 1.2.5		12
33	Sunspot drawings by Japanese official astronomers in 1749-1750. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	11
34	Three-dimensional magnetohydrodynamic simulation of the solar magnetic flux emergence. <i>Astronomy and Astrophysics</i> , 2013, 553, A55.	5.1	10
35	PSTEP: project for solar-terrestrial environment prediction. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	10
36	Formation of superstrong horizontal magnetic field in delta-type sunspot in radiation magnetohydrodynamic simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 2925-2935.	4.4	9

#	ARTICLE	IF	CITATIONS
37	Temporal and Spatial Scales in Coronal Rain Revealed by UV Imaging and Spectroscopic Observations. <i>Solar Physics</i> , 2020, 295, 1.	2.5	8
38	Testing a Data-driven Active Region Evolution Model with Boundary Data at Different Heights from a Solar Magnetic Flux Emergence Simulation. <i>Astrophysical Journal</i> , 2020, 903, 11.	4.5	8
39	Photospheric Velocity Structures during the Emergence of Small Active Regions on the Sun. <i>Astrophysical Journal</i> , 2017, 839, 63.	4.5	7
40	Observations and modeling of the solar flux emergence. <i>Publication of the Astronomical Society of Japan</i> , 2014, 66, .	2.5	6
41	On the Lorentz Force and Torque of Solar Photospheric Emerging Magnetic Fields. <i>Astrophysical Journal Letters</i> , 2020, 896, L9.	8.3	5
42	Flux emergence and generation of flare-productive active regions. <i>Advances in Space Research</i> , 2022, 70, 1549-1561.	2.6	5
43	Various Activities above Sunspot Light Bridges in IRIS Observations: Classification and Comparison. <i>Astrophysical Journal</i> , 2022, 929, 12.	4.5	1
44	Numerical Study on the Formation of Solar Active Regions. , 2014, , .		0