Shin Toriumi

List of Publications by Year
in descending order

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44	1,603	304743	289244
papers	citations	22 h-index	40 g-index

44	44	44	1211
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flux emergence and generation of flare-productive active regions. Advances in Space Research, 2022, 70, 1549-1561.	2.6	5
2	Universal Scaling Laws for Solar and Stellar Atmospheric Heating. Astrophysical Journal, 2022, 927, 179.	4.5	13
3	Various Activities above Sunspot Light Bridges in IRIS Observations: Classification and Comparison. Astrophysical Journal, 2022, 929, 12.	4.5	1
4	PSTEP: project for solarâ€“terrestrial environment prediction. Earth, Planets and Space, 2021, 73, .	2.5	10
5	Formation of superstrong horizontal magnetic field in delta-type sunspot in radiation magnetohydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2925-2935.	4.4	9
6	Temporal and Spatial Scales in Coronal Rain Revealed by UV Imaging and Spectroscopic Observations. Solar Physics, 2020, 295, 1.	2.5	8
7	Temporal Evolution of Spatially Resolved Individual Star Spots on a Planet-hosting Solar-type Star: Kepler-17. Astrophysical Journal, 2020, 891, 103.	4.5	21
8	On the Lorentz Force and Torque of Solar Photospheric Emerging Magnetic Fields. Astrophysical Journal Letters, 2020, 896, L9.	8.3	5
9	Comparative Study of Data-driven Solar Coronal Field Models Using a Flux Emergence Simulation as a Ground-truth Data Set. Astrophysical Journal, 2020, 890, 103.	4.5	26
10	Sun-as-a-star Spectral Irradiance Observations of Transiting Active Regions. Astrophysical Journal, 2020, 902, 36.	4.5	22
11	Testing a Data-driven Active Region Evolution Model with Boundary Data at Different Heights from a Solar Magnetic Flux Emergence Simulation. Astrophysical Journal, 2020, 903, 11.	4.5	8
12	Achievements of Hinode in the first eleven years. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	69
13	Temporal and Spatial Evolutions of a Large Sunspot Group and Great Auroral Storms Around the Carrington Event in 1859. Space Weather, 2019, 17, 1553-1569.	3.7	68
14	Flare-productive active regions. Living Reviews in Solar Physics, 2019, 16, 3.	22.0	162
15	Revisiting Kunitomoâ€™s Sunspot Drawings During 1835â€‰â€“â€‰1836 in Japan. Solar Physics, 2019, 294, 1.	2.5	12
16	Lifetimes and Emergence/Decay Rates of Star Spots on Solar-type Stars Estimated by Kepler Data in Comparison with Those of Sunspots. Astrophysical Journal, 2019, 871, 187.	4.5	44
17	Spontaneous Generation of Î´-sunspots in Convective Magnetohydrodynamic Simulation of Magnetic Flux Emergence. Astrophysical Journal Letters, 2019, 886, L21.	8.3	31
18	The extreme space weather event in September 1909. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4083-4099.	4.4	35

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19	The Solar-C_EUVST mission. , 2019, , .		17
20	Solar Ultraviolet Bursts. Space Science Reviews, 2018, 214, 1.	8.1	80
21	Sunspot drawings by Japanese official astronomers in 1749â€“1750. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	11
22	The Great Space Weather Event during 1872 February Recorded in East Asia. Astrophysical Journal, 2018, 862, 15.	4.5	44
23	Strong Transverse Photosphere Magnetic Fields and Twist in Light Bridge Dividing Delta Sunspot of Active Region 12673. Research Notes of the AAS, 2018, 2, 8.	0.7	41
24	Various Local Heating Events in the Earliest Phase of Flux Emergence. Astrophysical Journal, 2017, 836, 63.	4.5	36
25	Photospheric Velocity Structures during the Emergence of Small Active Regions on the Sun. Astrophysical Journal, 2017, 839, 63.	4.5	7
26	MAGNETIC PROPERTIES OF SOLAR ACTIVE REGIONS THAT GOVERN LARGE SOLAR FLARES AND ERUPTIONS. Astrophysical Journal, 2017, 834, 56.	4.5	134
27	Numerical Simulations of Flare-productive Active Regions: Î´-sunspots, Sheared Polarity Inversion Lines, Energy Storage, and Predictions. Astrophysical Journal, 2017, 850, 39.	4.5	54
28	The Direct Relation between the Duration of Magnetic Reconnection and the Evolution of GOES Light Curves in Solar Flares. Astrophysical Journal, 2017, 851, 4.	4.5	19
29	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
30	LIGHT BRIDGE IN A DEVELOPING ACTIVE REGION. I. OBSERVATION OF LIGHT BRIDGE AND ITS DYNAMIC ACTIVITY PHENOMENA. Astrophysical Journal, 2015, 811, 137.	4.5	64
31	LIGHT BRIDGE IN A DEVELOPING ACTIVE REGION. II. NUMERICAL SIMULATION OF FLUX EMERGENCE AND LIGHT BRIDGE FORMATION. Astrophysical Journal, 2015, 811, 138.	4.5	52
32	Observations and modeling of the solar flux emergence. Publication of the Astronomical Society of Japan, 2014, 66, .	2.5	6
33	STATISTICAL ANALYSIS OF THE HORIZONTAL DIVERGENT FLOW IN EMERGING SOLAR ACTIVE REGIONS. Astrophysical Journal, 2014, 794, 19.	4.5	24
34	Formation of a Flare-Productive Active Region: Observation and Numerical Simulation of NOAA AR 11158. Solar Physics, 2014, 289, 3351-3369.	2.5	44
35	Numerical Study on the Formation of Solar Active Regions. , 2014, , .		0
36	Three-dimensional magnetohydrodynamic simulation of the solar magnetic flux emergence. Astronomy and Astrophysics, 2013, 553, A55.	5.1	10

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37	PROBING THE SHALLOW CONVECTION ZONE: RISING MOTION OF SUBSURFACE MAGNETIC FIELDS IN THE SOLAR ACTIVE REGION. Astrophysical Journal Letters, 2013, 770, L11.	8.3	20
38	THE MAGNETIC SYSTEMS TRIGGERING THE M6.6 CLASS SOLAR FLARE IN NOAA ACTIVE REGION 11158. Astrophysical Journal, 2013, 773, 128.	4.5	44
39	MAGNETIC FIELD STRUCTURES TRIGGERING SOLAR FLARES AND CORONAL MASS EJECTIONS. Astrophysical Journal, 2012, 760, 31.	4.5	162
40	DETECTION OF THE HORIZONTAL DIVERGENT FLOW PRIOR TO THE SOLAR FLUX EMERGENCE. Astrophysical Journal, 2012, 751, 154.	4.5	21
41	Large-scale 3D MHD simulation on the solar flux emergence and the small-scale dynamic features in an active region. Astronomy and Astrophysics, 2012, 539, A22.	5.1	23
42	NUMERICAL EXPERIMENTS ON THE TWO-STEP EMERGENCE OF TWISTED MAGNETIC FLUX TUBES IN THE SUN. Astrophysical Journal, 2011, 735, 126.	4.5	31
43	Dependence of the Magnetic Energy of Solar Active Regions on the Twist Intensity of the Initial Flux Tubes. Publication of the Astronomical Society of Japan, 2011, 63, 407-415.	2.5	13
44	TWO-STEP EMERGENCE OF THE MAGNETIC FLUX SHEET FROM THE SOLAR CONVECTION ZONE. Astrophysical Journal, 2010, 714, 505-516.	4.5	28