

Takeru Ken Suzuki

List of Publications by Year in descending order

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78
papers

2,787
citations

159585

30
h-index

182427

51
g-index

80
all docs

80
docs citations

80
times ranked

2033
citing authors

#	ARTICLE	IF	CITATIONS
1	Making the Corona and the Fast Solar Wind: A Self-consistent Simulation for the Low-Frequency Alfvén Waves from the Photosphere to 0.3 AU. <i>Astrophysical Journal</i> , 2005, 632, L49-L52.	4.5	228
2	DISK WINDS DRIVEN BY MAGNETOROTATIONAL INSTABILITY AND DISPERSAL OF PROTOPLANETARY DISKS. <i>Astrophysical Journal</i> , 2009, 691, L49-L54.	4.5	213
3	The Magnetic Landscape of the Sun's Polar Region. <i>Astrophysical Journal</i> , 2008, 688, 1374-1381.	4.5	170
4	PROTOPLANETARY DISK WINDS VIA MAGNETOROTATIONAL INSTABILITY: FORMATION OF AN INNER HOLE AND A CRUCIAL ASSIST FOR PLANET FORMATION. <i>Astrophysical Journal</i> , 2010, 718, 1289-1304.	4.5	151
5	Solar winds driven by nonlinear low-frequency Alfvén waves from the photosphere: Parametric study for fast/slow winds and disappearance of solar winds. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	135
6	Evolution of protoplanetary discs with magnetically driven disc winds. <i>Astronomy and Astrophysics</i> , 2016, 596, A74.	5.1	134
7	MAGNETOHYDRODYNAMIC SIMULATIONS OF GLOBAL ACCRETION DISKS WITH VERTICAL MAGNETIC FIELDS. <i>Astrophysical Journal</i> , 2014, 784, 121.	4.5	96
8	CONNECTING THE SUN AND THE SOLAR WIND: THE FIRST 2.5-DIMENSIONAL SELF-CONSISTENT MHD SIMULATION UNDER THE ALFVÉN WAVE SCENARIO. <i>Astrophysical Journal</i> , 2012, 749, 8.	4.5	87
9	Forecasting Solar Wind Speeds. <i>Astrophysical Journal</i> , 2006, 640, L75-L78.	4.5	71
10	Connecting the Sun and the solar wind: the self-consistent transition of heating mechanisms. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 971-986.	4.4	71
11	Saturation of Stellar Winds from Young Suns. <i>Publication of the Astronomical Society of Japan</i> , 2013, 65, .	2.5	67
12	Formation of close-in super-Earths in evolving protoplanetary disks due to disk winds. <i>Astronomy and Astrophysics</i> , 2018, 615, A63.	5.1	64
13	Structured Red Giant Winds with Magnetized Hot Bubbles and the Corona/Cool Wind Dividing Line. <i>Astrophysical Journal</i> , 2007, 659, 1592-1610.	4.5	63
14	Abundances and Evolution of Lithium in the Galactic Halo and Disk. <i>Astrophysical Journal</i> , 2001, 549, 55-71.	4.5	62
15	Grand Challenges in Protoplanetary Disc Modelling. <i>Publications of the Astronomical Society of Australia</i> , 2016, 33, .	3.4	61
16	Three-dimensional Simulation of the Fast Solar Wind Driven by Compressible Magnetohydrodynamic Turbulence. <i>Astrophysical Journal Letters</i> , 2019, 880, L2.	8.3	57
17	Cosmic-ray Production of ${}^6\text{Li}$ by Structure Formation Shocks in the Early Milky Way: A Fossil Record of Dissipative Processes during Galaxy Formation. <i>Astrophysical Journal</i> , 2002, 573, 168-173.	4.5	57
18	DUST DYNAMICS IN PROTOPLANETARY DISK WINDS DRIVEN BY MAGNETOROTATIONAL TURBULENCE: A MECHANISM FOR FLOATING DUST GRAINS WITH CHARACTERISTIC SIZES. <i>Astrophysical Journal</i> , 2016, 821, 3.	4.5	56

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19	A Self-consistent Model of the Coronal Heating and Solar Wind Acceleration Including Compressible and Incompressible Heating Processes. <i>Astrophysical Journal</i> , 2018, 853, 190.	4.5	47
20	Coronal heating and acceleration of the high/low-speed solar wind by fast/slow MHD shock trains. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 349, 1227-1239.	4.4	44
21	Evolution of Collisionally Merged Massive Stars. <i>Astrophysical Journal</i> , 2007, 668, 435-448.	4.5	43
22	Frequency-dependent Alfvén-wave Propagation in the Solar Wind: Onset and Suppression of Parametric Decay Instability. <i>Astrophysical Journal</i> , 2018, 860, 17.	4.5	41
23	ATMOSPHERIC ESCAPE BY MAGNETICALLY DRIVEN WIND FROM GASEOUS PLANETS. <i>Astrophysical Journal</i> , 2014, 792, 18.	4.5	38
24	The formation of rings and gaps in wind-launching non-ideal MHD discs: three-dimensional simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 107-124.	4.4	38
25	On the Heating of Cluster Cooling Flows by Sound Waves. <i>Astrophysical Journal</i> , 2005, 630, L1-L4.	4.5	37
26	A New Model for the Evolution of Light Elements in an Inhomogeneous Galactic Halo. <i>Astrophysical Journal</i> , 2001, 549, 303-319.	4.5	36
27	Alfvén Wave-driven Proto-Neutron Star Winds and Process Nucleosynthesis. <i>Astrophysical Journal</i> , 2005, 628, 914-922.	4.5	35
28	Dispersal of protoplanetary discs by the combination of magnetically driven and photoevaporative winds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3849-3858.	4.4	34
29	A Three-dimensional Simulation of a Magnetized Accretion Disk: Fast Funnel Accretion onto a Weakly Magnetized Star. <i>Astrophysical Journal</i> , 2018, 857, 4.	4.5	32
30	STOCHASTIC PARTICLE ACCELERATION IN TURBULENCE GENERATED BY MAGNETOROTATIONAL INSTABILITY. <i>Astrophysical Journal</i> , 2016, 822, 88.	4.5	30
31	On the Heating of the Solar Corona and the Acceleration of the Low-speed Solar Wind by Acoustic Waves Generated in the Corona. <i>Astrophysical Journal</i> , 2002, 578, 598-609.	4.5	30
32	Alfvén-wave-driven Magnetic Rotator Winds from Low-mass Stars. I. Rotation Dependences of Magnetic Braking and Mass-loss Rate. <i>Astrophysical Journal</i> , 2020, 896, 123.	4.5	30
33	TWO-DIMENSIONAL STUDY OF THE PROPAGATION OF PLANETARY WAKE AND THE INDICATION OF GAP OPENING IN AN INVISCID PROTOPLANETARY DISK. <i>Astrophysical Journal</i> , 2010, 724, 448-463.	4.5	29
34	Evolution of Beryllium and Boron in the Inhomogeneous Early Galaxy. <i>Astrophysical Journal</i> , 1999, 522, L125-L128.	4.5	28
35	Primordial Lithium Abundance as a Stringent Constraint on the Baryonic Content of the Universe. <i>Astrophysical Journal</i> , 2000, 540, 99-103.	4.5	28
36	Formation of terrestrial planets in disks evolving via disk winds and implications for the origin of the solar system's terrestrial planets. <i>Astronomy and Astrophysics</i> , 2015, 579, A65.	5.1	26

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37	Tsunamis in Galaxy Clusters: Heating of Cool Cores by Acoustic Waves. <i>Astrophysical Journal</i> , 2004, 600, 650-656.	4.5	25
38	Collisional Growth and Fragmentation of Dust Aggregates with Low Mass Ratios. I. Critical Collision Velocity for Water Ice. <i>Astrophysical Journal</i> , 2021, 915, 22.	4.5	22
39	Stellar winds and coronae of low-mass Population II/III stars. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	20
40	Formation of the terrestrial planets in the solar system around 1 au via radial concentration of planetesimals. <i>Astronomy and Astrophysics</i> , 2018, 612, L5.	5.1	19
41	Self-consistent Simulations of Alfvén Wave Driven Winds from the Sun and Stars. <i>Space Science Reviews</i> , 2011, 158, 339-363.	8.1	18
42	Stochastic non-circular motion and outflows driven by magnetic activity in the Galactic bulge region. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 3049-3059.	4.4	18
43	Giant Protostellar Flares: Accretion-driven Accumulation and Reconnection-driven Ejection of Magnetic Flux in Protostars. <i>Astrophysical Journal Letters</i> , 2019, 878, L10.	8.3	17
44	Photoevaporative Dispersal of Protoplanetary Disks around Evolving Intermediate-mass Stars. <i>Astrophysical Journal</i> , 2021, 909, 109.	4.5	17
45	New Growth Mechanism of Dust Grains in Protoplanetary Disks with Magnetically Driven Disk Winds. <i>Astrophysical Journal</i> , 2021, 909, 75.	4.5	14
46	Metal pollution of low-mass Population III stars through accretion of interstellar objects like ʻOumuamua. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	12
47	Hot grain dynamics by electric charging and magnetic trapping in debris disks. <i>Planetary and Space Science</i> , 2020, 183, 104581.	1.7	12
48	The Origin of Ripples in Cool Cores of Galaxy Clusters: Heating by Magnetohydrodynamic Waves?. <i>Astrophysical Journal</i> , 2007, 659, L1-L4.	4.5	10
49	DRIVING DISK WINDS AND HEATING HOT CORONAE BY MRI TURBULENCE. <i>Astrophysical Journal</i> , 2014, 780, 46.	4.5	10
50	Effects of axions on nucleosynthesis in massive stars. <i>Physical Review D</i> , 2015, 92, .	4.7	9
51	Effects of global gas flows on type I migration. <i>Astronomy and Astrophysics</i> , 2017, 608, A74.	5.1	9
52	Alfvén Wave-driven Wind from RGB and AGB Stars. <i>Astrophysical Journal</i> , 2019, 879, 77.	4.5	9
53	The Light Elements Be and B as Stellar Chronometers in the Early Galaxy. <i>Symposium - International Astronomical Union</i> , 2000, 198, 425-431.	0.1	8
54	THERMAL RESPONSE OF A SOLAR-LIKE ATMOSPHERE TO AN ELECTRON BEAM FROM A HOT JUPITER: A NUMERICAL EXPERIMENT. <i>Astrophysical Journal</i> , 2009, 705, 1189-1195.	4.5	8

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55	Coronae of Zero/Low-metal, Low-mass Stars. <i>Astrophysical Journal</i> , 2019, 885, 164.	4.5	8
56	A Theoretical Model of X-Ray Jets from Young Stellar Objects. <i>Astrophysical Journal</i> , 2017, 847, 46.	4.5	6
57	Solar wind and its evolution. <i>Earth, Planets and Space</i> , 2012, 64, 201-206.	2.5	5
58	THE EVOLUTION OF HIGH-TEMPERATURE PLASMA IN MAGNETAR MAGNETOSPHERES AND ITS IMPLICATIONS FOR GIANT FLARES. <i>Astrophysical Journal</i> , 2014, 787, 84.	4.5	5
59	Magnetic activity in the Galactic Centre region “ fast downflows along rising magnetic loops. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 5629-5638.	4.4	5
60	Magnetohydrodynamics in a cylindrical shearing box. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	5
61	Role of Longitudinal Waves in Alfvén-wave-driven Solar Wind. <i>Astrophysical Journal</i> , 2022, 931, 37.	4.5	5
62	Cosmic Ray Production of ${}^6\text{Li}$ by Virialisation Shocks in the Early Milky Way. <i>Publications of the Astronomical Society of Australia</i> , 2004, 21, 148-152.	3.4	4
63	ATMOSPHERIC ESCAPE BY MAGNETICALLY DRIVEN WIND FROM GASEOUS PLANETS. II. EFFECTS OF MAGNETIC DIFFUSION. <i>Astrophysical Journal</i> , 2015, 809, 125.	4.5	4
64	Coronal properties of low-mass Population III stars and the radiative feedback in the early universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1284-1294.	4.4	4
65	Rapid-then-slow migration reproduces mass distribution of TRAPPIST-1 system. <i>Astronomy and Astrophysics</i> , 2022, 658, A184.	5.1	4
66	Recovery of urban socio-technical systems after disaster: quasi-optimality of reactive decision-making based planning. <i>EURO Journal on Decision Processes</i> , 2017, 5, 65-77.	2.7	2
67	Cosmic ray production of ${}^6\text{Li}$ by structure formation shocks in the early galaxy. <i>Nuclear Physics A</i> , 2003, 718, 69-72.	1.5	1
68	Evolution of ${}^6\text{LiBeB}$ in Inhomogeneous Early Galaxy. <i>Symposium - International Astronomical Union</i> , 2000, 198, 565-566.	0.1	0
69	Light Elements Produced by Nitrogen-rich Type Ic Supernovae. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
70	Evolution of Alfvén wave-driven solar winds to red giants. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 201-207.	0.0	0
71	Evolution of stellar winds from the Sun to red giants. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 589-599.	0.0	0
72	Dispersal of Protoplanetary Disks by MHD Turbulence-Driven Disk Winds. , 2009, , .		0

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73	Connecting the photosphere and the solar wind. , 2013, , .		0
74	Investigating Magnetic Activity in the Galactic Centre by Global MHD Simulation. Proceedings of the International Astronomical Union, 2016, 11, 137-140.	0.0	0
75	Vertical flows and structures excited by magnetic activity in the Galactic center region. Proceedings of the International Astronomical Union, 2016, 11, 220-221.	0.0	0
76	3D simulations of accretion onto a star: Fast funnel-wall accretion. Proceedings of the International Astronomical Union, 2018, 14, 138-138.	0.0	0
77	Evolution of Light Elements in an Inhomogeneous Galactic Halo. , 2001, , 121-123.		0
78	Waves and Turbulences in Solar and Stellar Atmospheres and Winds. Plasma and Fusion Research, 2013, 8, 2401129-2401129.	0.7	0