

Jungyeon Cho

List of Publications by Year in descending order

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80
papers

4,883
citations

109321

35
h-index

91884

69
g-index

81
all docs

81
docs citations

81
times ranked

2497
citing authors

#	ARTICLE	IF	CITATIONS
1	The Anisotropy of Magnetohydrodynamic Alfvénic Turbulence. <i>Astrophysical Journal</i> , 2000, 539, 273-282.	4.5	505
2	Compressible magnetohydrodynamic turbulence: mode coupling, scaling relations, anisotropy, viscosity-damped regime and astrophysical implications. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 345, 325-339.	4.4	449
3	Simulations of Magnetohydrodynamic Turbulence in a Strongly Magnetized Medium. <i>Astrophysical Journal</i> , 2002, 564, 291-301.	4.5	374
4	Turbulence and Magnetic Fields in the Large-Scale Structure of the Universe. <i>Science</i> , 2008, 320, 909-912.	12.6	354
5	Compressible Sub-Alfvénic MHD Turbulence in Low- β Plasmas. <i>Physical Review Letters</i> , 2002, 88, 245001.	7.8	275
6	Magnetic Helicity Conservation and Astrophysical Dynamos. <i>Astrophysical Journal</i> , 2001, 550, 752-760.	4.5	198
7	The Anisotropy of Electron Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2004, 615, L41-L44.	4.5	170
8	Magnetic Field Structure and Stochastic Reconnection in a Partially Ionized Gas. <i>Astrophysical Journal</i> , 2004, 603, 180-197.	4.5	167
9	SIMULATIONS OF ELECTRON MAGNETOHYDRODYNAMIC TURBULENCE. <i>Astrophysical Journal</i> , 2009, 701, 236-252.	4.5	115
10	GROWTH OF MAGNETIC FIELDS INDUCED BY TURBULENT MOTIONS. <i>Astrophysical Journal</i> , 2009, 693, 1449-1461.	4.5	113
11	The JCMT BISTRO Survey: The Magnetic Field Strength in the Orion A Filament. <i>Astrophysical Journal</i> , 2017, 846, 122.	4.5	103
12	The Generation of Magnetic Fields through Driven Turbulence. <i>Astrophysical Journal</i> , 2000, 538, 217-225.	4.5	103
13	New Regime of Magnetohydrodynamic Turbulence: Cascade below the Viscous Cutoff. <i>Astrophysical Journal</i> , 2002, 566, L49-L52.	4.5	88
14	Grain Alignment by Radiation in Dark Clouds and Cores. <i>Astrophysical Journal</i> , 2005, 631, 361-370.	4.5	82
15	Thermal Conduction in Magnetized Turbulent Gas. <i>Astrophysical Journal</i> , 2003, 589, L77-L80.	4.5	81
16	First Results from BISTRO: A SCUBA-2 Polarimeter Survey of the Gould Belt. <i>Astrophysical Journal</i> , 2017, 842, 66.	4.5	79
17	Grain Alignment and Polarized Emission from Magnetized T Tauri Disks. <i>Astrophysical Journal</i> , 2007, 669, 1085-1097.	4.5	78
18	MHD Turbulence: Scaling Laws and Astrophysical Implications. <i>Lecture Notes in Physics</i> , 2003, , 56-98.	0.7	67

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19	Ordinary and Viscosity-damped Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2003, 595, 812-823.	4.5	65
20	Particle Acceleration by Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2006, 638, 811-826.	4.5	64
21	Propagation of Ultra-High Energy Protons through the Magnetized Cosmic Web. <i>Astrophysical Journal</i> , 2008, 682, 29-38.	4.5	64
22	Alignment of Irregular Grains by Mechanical Torques. <i>Astrophysical Journal</i> , 2018, 852, 129.	4.5	63
23	CHARACTERISTIC LENGTHS OF MAGNETIC FIELD IN MAGNETOHYDRODYNAMIC TURBULENCE. <i>Astrophysical Journal</i> , 2009, 705, L90-L94.	4.5	63
24	Magnetic Fields toward Ophiuchus-B Derived from SCUBA-2 Polarization Measurements. <i>Astrophysical Journal</i> , 2018, 861, 65.	4.5	51
25	A First Look at BISTRO Observations of the ρ -Oph-A core. <i>Astrophysical Journal</i> , 2018, 859, 4.	4.5	46
26	Generation of compressible modes in MHD turbulence. <i>Theoretical and Computational Fluid Dynamics</i> , 2005, 19, 127-157.	2.2	45
27	Simulations of Relativistic Force-free Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2005, 621, 324-327.	4.5	44
28	STRINGENT LIMITS ON THE POLARIZED SUBMILLIMETER EMISSION FROM PROTOPLANETARY DISKS. <i>Astrophysical Journal</i> , 2009, 704, 1204-1217.	4.5	44
29	JCMT BISTRO Survey: Magnetic Fields within the Hub-filament Structure in IC 5146. <i>Astrophysical Journal</i> , 2019, 876, 42.	4.5	42
30	The JCMT BISTRO Survey: Magnetic Fields Associated with a Network of Filaments in NGC 1333. <i>Astrophysical Journal</i> , 2020, 899, 28.	4.5	39
31	The JCMT BISTRO Survey: The Magnetic Field in the Starless Core ρ -Ophiuchus C. <i>Astrophysical Journal</i> , 2019, 877, 43.	4.5	38
32	Synchrotron Intensity Gradients as Tracers of Interstellar Magnetic Fields. <i>Astrophysical Journal</i> , 2017, 842, 30.	4.5	37
33	The JCMT BISTRO Survey: The Magnetic Field of the Barnard 1 Star-forming Region. <i>Astrophysical Journal</i> , 2019, 877, 88.	4.5	37
34	A TECHNIQUE FOR CONSTRAINING THE DRIVING SCALE OF TURBULENCE AND A MODIFIED CHANDRASEKHAR-FERMI METHOD. <i>Astrophysical Journal</i> , 2016, 821, 21.	4.5	36
35	The JCMT Transient Survey: Detection of Submillimeter Variability in a Class I Protostar EC 53 in Serpens Main. <i>Astrophysical Journal</i> , 2017, 849, 69.	4.5	36
36	Magnetohydrodynamic Turbulence as a Foreground for Cosmic Microwave Background Studies. <i>Astrophysical Journal</i> , 2002, 575, L63-L66.	4.5	36

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37	Physical Model of Dust Polarization by Radiative Torque Alignment and Disruption and Implications for Grain Internal Structures. <i>Astrophysical Journal</i> , 2020, 896, 44.	4.5	32
38	ORIGIN OF MAGNETIC FIELD IN THE INTRACLUSTER MEDIUM: PRIMORDIAL OR ASTROPHYSICAL?. <i>Astrophysical Journal</i> , 2014, 797, 133.	4.5	30
39	Magnetic Helicity Conservation and Inverse Energy Cascade in Electron Magnetohydrodynamic Wave Packets. <i>Physical Review Letters</i> , 2011, 106, 191104.	7.8	29
40	The Radio-FIR Correlation: Is MHD Turbulence the Cause?. <i>Publications of the Astronomical Society of Australia</i> , 2003, 20, 252-256.	3.4	28
41	Magnetohydrodynamic Turbulent Mixing Layers: Equilibrium Cooling Models. <i>Astrophysical Journal</i> , 2006, 648, 1043-1051.	4.5	28
42	GALACTIC FOREGROUNDS: SPATIAL FLUCTUATIONS AND A PROCEDURE FOR REMOVAL. <i>Astrophysical Journal</i> , 2010, 720, 1181-1201.	4.5	27
43	Statistical Tracing of Magnetic Fields: Comparing and Improving the Techniques. <i>Astrophysical Journal</i> , 2018, 865, 54.	4.5	26
44	IMBALANCED RELATIVISTIC FORCE-FREE MAGNETOHYDRODYNAMIC TURBULENCE. <i>Astrophysical Journal</i> , 2014, 780, 30.	4.5	25
45	Problems and Progress in Astrophysical Dynamos. , 2003, , 376-401.		25
46	POLARIMETRIC STUDIES OF MAGNETIC TURBULENCE WITH AN INTERFEROMETER. <i>Astrophysical Journal</i> , 2016, 831, 77.	4.5	22
47	STUDYING MAGNETOHYDRODYNAMIC TURBULENCE WITH SYNCHROTRON POLARIZATION DISPERSION. <i>Astrophysical Journal</i> , 2016, 825, 154.	4.5	22
48	The JCMT BISTRO Survey: Revealing the Diverse Magnetic Field Morphologies in Taurus Dense Cores with Sensitive Submillimeter Polarimetry. <i>Astrophysical Journal Letters</i> , 2021, 912, L27.	8.3	21
49	A TECHNIQUE FOR FOREGROUND SUBTRACTION IN REDSHIFTED 21 cm OBSERVATIONS. <i>Astrophysical Journal</i> , 2012, 749, 164.	4.5	19
50	EFFECTS OF MULTIPLE-SCALE DRIVING ON TURBULENCE STATISTICS. <i>Astrophysical Journal</i> , 2014, 780, 99.	4.5	19
51	NON-LOCALITY OF HYDRODYNAMIC AND MAGNETOHYDRODYNAMIC TURBULENCE. <i>Astrophysical Journal</i> , 2010, 725, 1786-1791.	4.5	16
52	INVERSE CASCADE IN IMBALANCED ELECTRON MAGNETOHYDRODYNAMIC TURBULENCE. <i>Astrophysical Journal</i> , 2015, 801, 75.	4.5	16
53	Spinup and Disruption of Interstellar Asteroids by Mechanical Torques, and Implications for 1I/2017 U1 (â€œOumuamua). <i>Astrophysical Journal</i> , 2018, 860, 42.	4.5	16
54	Observations of Magnetic Fields Surrounding LkHâ€± 101 Taken by the BISTRO Survey with JCMT-POL-2. <i>Astrophysical Journal</i> , 2021, 908, 10.	4.5	16

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55	B-fields in Star-forming Region Observations (BISTRO): Magnetic Fields in the Filamentary Structures of Serpens Main. <i>Astrophysical Journal</i> , 2022, 926, 163.	4.5	16
56	ESTIMATION OF MAGNETIC FIELD STRENGTH IN THE TURBULENT WARM IONIZED MEDIUM. <i>Astrophysical Journal</i> , 2009, 705, L86-L89.	4.5	14
57	INTERNAL EXTINCTION IN THE SLOAN DIGITAL SKY SURVEY LATE-TYPE GALAXIES. <i>Astrophysical Journal</i> , 2009, 693, 1045-1055.	4.5	14
58	DENSITY-MAGNETIC FIELD CORRELATION IN MAGNETOHYDRODYNAMIC TURBULENCE DRIVEN BY DIFFERENT DRIVING SCHEMES WITH DIFFERENT CORRELATION TIMES. <i>Astrophysical Journal</i> , 2016, 831, 85.	4.5	13
59	The JCMT BISTRO Survey: An 850/450 $\hat{1}$ / $\hat{4}$ m Polarization Study of NGC 2071IR in Orion B. <i>Astrophysical Journal</i> , 2021, 918, 85.	4.5	13
60	Precessing Jet and Large Dust Grains in the V380 Ori NE Star-forming Region. <i>Astrophysical Journal</i> , Supplement Series, 2017, 232, 24.	7.7	11
61	A Technique for Removing Large-scale Variations in Regularly and Irregularly Spaced Data. <i>Astrophysical Journal</i> , 2019, 874, 75.	4.5	11
62	Studying the Local Magnetic Field and Anisotropy of Magnetic Turbulence by Synchrotron Polarization Derivative. <i>Astrophysical Journal</i> , 2020, 895, 20.	4.5	11
63	Scaling, Intermittency and Decay of MHD Turbulence. <i>Physica Scripta</i> , 2005, , 32.	2.5	10
64	Near-infrared Polarimetry of the Outflow Source AFGL 6366S: Detection of Circular Polarization. <i>Astronomical Journal</i> , 2018, 156, 1.	4.7	10
65	Anisotropic Structure of Synchrotron Polarization. <i>Astrophysical Journal</i> , 2019, 877, 108.	4.5	10
66	THERMAL CONDUCTION IN MAGNETIZED TURBULENT GAS. <i>Journal of the Korean Astronomical Society</i> , 2004, 37, 557-562.	1.5	10
67	TRAO Survey of the Nearby Filamentary Molecular Clouds, the Universal Nursery of Stars (TRAO) Tj ETQq1 1 0.784314 rgBT /Qverlock	4.5	9
68	Inflow Motions Associated with High-mass Protostellar Objects. <i>Astrophysical Journal</i> , Supplement Series, 2018, 235, 31.	7.7	8
69	Effects of Turbulence Driving and Sonic Mach Number on the Davisâ€“Chandrasekharâ€“Fermi Method. <i>Astrophysical Journal</i> , 2019, 880, 137.	4.5	8
70	Generation of Solenoidal Modes and Magnetic Fields in Turbulence Driven by Compressive Driving. <i>Astrophysical Journal</i> , 2020, 893, 75.	4.5	8
71	GROWTH OF A LOCALIZED SEED MAGNETIC FIELD IN A TURBULENT MEDIUM. <i>Astrophysical Journal</i> , 2012, 759, 91.	4.5	7
72	Spectral evolution of helical electron magnetohydrodynamic turbulence. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6157-6167.	2.4	7

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73	Angular spectra of polarized Galactic foregrounds. <i>New Astronomy Reviews</i> , 2003, 47, 1143-1149.	12.8	6
74	Properties of balanced and imbalanced relativistic alfvénic magnetohydrodynamic turbulence. <i>Journal of the Korean Physical Society</i> , 2014, 65, 871-875.	0.7	6
75	TIMES. I. A Systematic Observation in Multiple Molecular Lines toward the Orion A and Ophiuchus Clouds. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 16.	7.7	6
76	Turbulent Properties in Star-forming Molecular Clouds Down to the Sonic Scale. II. Investigating the Relation between Turbulence and Star-forming Environments in Molecular Clouds. <i>Astrophysical Journal</i> , 2021, 921, 31.	4.5	4
77	Fast diffusion of magnetic field in turbulence and origin of cosmic magnetism. <i>Physical Review D</i> , 2013, 87, .	4.7	2
78	Forward and Inverse Cascades in EMHD Turbulence. <i>Journal of Physics: Conference Series</i> , 2016, 719, 012001.	0.4	1
79	Effects of driving scale on astrophysical turbulence and a modified Chandrasekhar-Fermi method. <i>Journal of Physics: Conference Series</i> , 2017, 837, 012002.	0.4	0
80	Interaction of Wave Packets in MHD and EMHD Turbulence. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2012, , 171-176.	0.3	0