Sungsoo S Kim

List of Publications by Year
in descending order

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103 papers	2,662 citations	279798 23 h-index	189892 50 g-index
104 all docs	104 docs citations	104 times ranked	2493 citing authors

#	Article	IF	Citations
1	Hubble Space Telescope/NICMOS Observations of Massive Stellar Clusters near the Galactic Center. Astrophysical Journal, 1999, 525, 750-758.	4.5	327
2	The NIRSPEC Brown Dwarf Spectroscopic Survey. I. Lowâ€Resolution Nearâ€Infrared Spectra. Astrophysical Journal, 2003, 596, 561-586.	4.5	271
3	Massive Stars in the Arches Cluster. Astrophysical Journal, 2002, 581, 258-275.	4.5	261
4	An Extended Star Formation History for the Galactic Center fromHubble Space TelescopeNICMOS Observations. Astrophysical Journal, 2004, 601, 319-339.	4.5	150
5	Stellar Companions to Stars with Planets. Astrophysical Journal, 2002, 581, 654-665.	4.5	143
6	Dynamical Friction on Star Clusters near the Galactic Center. Astrophysical Journal, 2003, 597, 312-322.	4.5	88
7	The Arches Cluster Mass Function. Astrophysical Journal, 2006, 653, L113-L116.	4.5	87
8	Nâ€Body Simulations of Compact Young Clusters near the Galactic Center. Astrophysical Journal, 2000, 545, 301-308.	4.5	76
9	Dynamical Friction on Galactic Center Star Clusters with an Intermediate-Mass Black Hole. Astrophysical Journal, 2004, 607, L123-L126.	4.5	73
10	KOREA INSTITUTE FOR ADVANCED STUDY VALUE-ADDED GALAXY CATALOG. Journal of the Korean Astronomical Society, 2010, 43, 191-200.	1.5	73
11	THE CHALLENGE OF THE LARGEST STRUCTURES IN THE UNIVERSE TO COSMOLOGY. Astrophysical Journal Letters, 2012, 759, L7.	8.3	71
12	The NIRSPEC Brown Dwarf Spectroscopic Survey. II. Highâ€ResolutionJâ€Band Spectra of M, L, and T Dwarfs. Astrophysical Journal, 2007, 658, 1217-1235.	4.5	64
13	Evaporation of Compact Young Clusters near the Galactic Center. Astrophysical Journal, 1999, 525, 228-239.	4.5	60
14	Luminosity Class III Stars with Excess Far-Infrared Emission. Astrophysical Journal, 1995, 446, L79.	4.5	44
15	Highâ€Precision Stellar Radial Velocities in the Galactic Center. Astrophysical Journal, 2003, 599, 1139-1156.	4.5	42
16	GALAXY CLUSTERING TOPOLOGY IN THE SLOAN DIGITAL SKY SURVEY MAIN GALAXY SAMPLE: A TEST FOR GALAXY FORMATION MODELS. Astrophysical Journal, Supplement Series, 2010, 190, 181-202.	7.7	42
17	FORMATION OF WARPED DISKS BY GALACTIC FLYBY ENCOUNTERS. I. STELLAR DISKS. Astrophysical Journal, 2014, 789, 90.	4.5	39
18	The Streamâ€Stream Collision after the Tidal Disruption of a Star around a Massive Black Hole. Astrophysical Journal, 1999, 519, 647-657.	4.5	37

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19	NUCLEAR STAR-FORMING RING OF THE MILKY WAY: SIMULATIONS. Astrophysical Journal Letters, 2011, 735, L11.	8.3	36
20	RADIAL VELOCITY VARIABILITY OF FIELD BROWN DWARFS. Astrophysical Journal, 2015, 808, 12.	4.5	36
21	INTERSTELLAR MEDIUM PROCESSING IN THE INNER 20 pc IN GALACTIC CENTER. Astrophysical Journal, 2013, 770, 44.	4.5	33
22	High-resolution spectroscopy of Saturn at 3 microns: CH4, CH3D, C2H2, C2H6, PH3, clouds, and haze. Icarus, 2006, 185, 476-486.	2.5	32
23	Star Formation Activity of Barred Spiral Galaxies. Astrophysical Journal, 2017, 845, 93.	4.5	27
24	Asymmetric Space Weathering on Lunar Crater Walls. Geophysical Research Letters, 2017, 44, 11,273.	4.0	26
25	Twoâ€Component Fokkerâ€Planck Models for the Evolution of Isolated Globular Clusters. Astrophysical Journal, 1998, 495, 786-795.	4.5	24
26	Near-Infrared Spectroscopy of Brown Dwarfs: Methane and the Transition between the L and T Spectral Types. Astrophysical Journal, 2001, 561, L115-L118.	4.5	23
27	Incidence of High-Amplitude Î´ Scuti-Type Variable Stars. Publication of the Astronomical Society of Japan, 2008, 60, 551-555.	2.5	23
28	MULTI-BAND POLARIMETRY OF THE LUNAR SURFACE. I. GLOBAL PROPERTIES. Astrophysical Journal, Supplement Series, 2015, 221, 16.	7.7	20
29	On the Small Contribution of Supermicron Dust Particles to Light Scattering by Comets. Astrophysical Journal, 2020, 895, 110.	4.5	20
30	Statistical Analysis of the Relationships among Coronal Holes, Corotating Interaction Regions, and Geomagnetic Storms. Solar Physics, 2009, 254, 311-323.	2.5	19
31	MASS DISTRIBUTION IN THE CENTRAL FEW PARSECS OF OUR GALAXY. Journal of the Korean Astronomical Society, 2009, 42, 17-26.	1.5	18
32	Dynamical evolution of the mass function and radial profile of the Galactic globular cluster system. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 386, L67-L71.	3.3	16
33	Hydrodynamic Simulations of the Central Molecular Zone with a Realistic Galactic Potential. Astrophysical Journal, 2017, 841, 74.	4.5	16
34	Theoretical Isochrones with Extinction in theKBand. Publications of the Astronomical Society of the Pacific, 2005, 117, 445-461.	3.1	15
35	TOPOLOGY OF LUMINOUS RED GALAXIES FROM THE SLOAN DIGITAL SKY SURVEY. Astrophysical Journal, Supplement Series, 2013, 209, 19.	7.7	14
36	GALACTIC WARPS IN TRIAXIAL HALOS. Astrophysical Journal, 2009, 696, 1899-1917.	4.5	13

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37	SYSTEMATIC EFFECTS ON THE GENUS TOPOLOGY OF THE LARGE-SCALE STRUCTURE OF THE UNIVERSE. Astrophysical Journal, Supplement Series, 2014, 212, 22.	7.7	13
38	Spatial Diffusion of Stars in the Inner Galactic Bulge. Astrophysical Journal, 2001, 554, 1059-1069.	4.5	13
39	A SECOND-ORDER BIAS MODEL FOR THE LOGARITHMIC HALO MASS DENSITY. Astrophysical Journal, 2012, 753, 11.	4.5	12
40	A TOPOLOGICAL ANALYSIS OF LARGE-SCALE STRUCTURE, STUDIED USING THE CMASS SAMPLE OF SDSS-III. Astrophysical Journal, 2014, 796, 86.	4.5	12
41	Monitoring polarization in comet 46P/Wirtanen. Monthly Notices of the Royal Astronomical Society, 2020, 498, 1814-1825.	4.4	12
42	Polarization of disintegrating Comet C/2019 Y4 (ATLAS). Monthly Notices of the Royal Astronomical Society, 2020, 497, 1536-1542.	4.4	12
43	How does a low-mass cut-off in the stellar IMF affect the evolution of young star clusters?. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2256-2267.	4.4	11
44	Observational Strategy for KPLO/PolCam Measurements of the Lunar Surface from Orbit. Publications of the Astronomical Society of the Pacific, 2020, 132, 015004.	3.1	11
45	INITIAL SIZE DISTRIBUTION OF THE GALACTIC GLOBULAR CLUSTER SYSTEM. Astrophysical Journal, 2013, 762, 135.	4.5	10
46	The early dynamical evolution of star clusters near the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2018, 478, 183-196.	4.4	10
47	Extent of Excess Farâ€Infrared Emission around Luminosity Class III Stars. Astrophysical Journal, 2001, 550, 1000-1006.	4.5	10
48	DARK MATTER CONTENT IN GLOBULAR CLUSTER NGC 6397. Journal of the Korean Astronomical Society, 2013, 46, 173-181.	1.5	10
49	Interferometric Monitoring of Gamma-ray Bright AGNs: S5 0716+714. Astrophysical Journal, 2017, 841, 119.	4.5	9
50	Iron content determines how space weathering flux variations affect lunar soils. Icarus, 2019, 333, 323-342.	2.5	9
51	GREEN BANK TELESCOPE OBSERVATIONS OF THE NH₃(3, 3) AND (6, 6) TRANSITIONS TOWARD SAGITTARIUS A MOLECULAR CLOUDS. Astrophysical Journal, 2013, 773, 31.	4.5	8
52	Detection of millimeter-wavelength intraday variability in polarized emission from S5 0716+714. Astronomy and Astrophysics, 2016, 592, L10.	5.1	8
53	Monitoring the negative polarization in Comet 29P/Schwassmannâ€“Wachmann during quiescence. Icarus, 2021, 366, 114536.	2.5	8
54	Low-end mass function of the arches cluster. Monthly Notices of the Royal Astronomical Society, 2015, 447, 366-373.	4.4	7

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55	Direct Effects of the Environment on AGN Triggering in SDSS Spiral Galaxies: Merger-AGN connection. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	7
56	Velocity of Dust Ejected from Interstellar Comet 2I/Borisov. Research Notes of the AAS, 2019, 3, 152.	0.7	7
57	Independent detector testing laboratory and the NGST detector characterization project. , 2003, 4850, 981.		6
58	SiO EMISSION IN THE GALACTIC CENTER. Astrophysical Journal, 2015, 808, 86.	4.5	6
59	Nuclear starburst activity induced by elongated bulges in spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 479, 562-569.	4.4	6
60	Theoretical Isochrones with Extinction in theKBand. II.Jâ^'KversusK. Publications of the Astronomical Society of the Pacific, 2006, 118, 62-76.	3.1	5
61	Laboratory measurements of light polarization on samples targeted for the lunar regolith. Advances in Space Research, 2017, 59, 1629-1635.	2.6	5
62	Multi-band Polarimetry of the Lunar Surface. II. Grain Size Evolutionary Pathway. Astrophysical Journal, 2018, 869, 67.	4.5	5
63	Effect of bars on evolution of SDSS spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 494, 5839-5850.	4.4	5
64	Simultaneous Aerosol and Ocean Properties From the PolCube CubeSat Polarimeter. Frontiers in Remote Sensing, 2021, 2, .	3.5	5
65	The Gas Accretion History of Low-mass Halos within the Cosmic Web from Cosmological Simulations. Astrophysical Journal, 2020, 889, 173.	4.5	5
66	HALO SPIN PARAMETER IN COSMOLOGICAL SIMULATIONS. Journal of the Korean Astronomical Society, 2014, 47, 77-86.	1.5	5
67	Polarimetric properties of the Reiner Gamma swirl. Publication of the Astronomical Society of Japan, 2016, 68, L10.	2.5	4
68	Low-end mass function of the Quintuplet cluster. Monthly Notices of the Royal Astronomical Society, 2016, 460, 1854-1862.	4.4	4
69	Technical note: A simple method for retrieval of dust aerosol optical depth with polarized reflectance over oceans. Atmospheric Chemistry and Physics, 2019, 19, 15583-15586.	4.9	4
70	Calibration of TRACE Lyman-Î± images using SOHO/SUMER observations. Astronomy and Astrophysics, 2006, 456, 747-750.	5.1	4
71	EUNHA: A NEW COSMOLOGICAL HYDRODYNAMIC SIMULATION CODE. Journal of the Korean Astronomical Society, 2014, 47, 87-98.	1.5	4
72	Reddening Behaviors of Galaxies in the SDSS Photometric System. Publications of the Astronomical Society of the Pacific, 2007, 119, 1449-1461.	3.1	3

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73	STOCHASTIC MODEL OF THE SPIN DISTRIBUTION OF DARK MATTER HALOS. Astrophysical Journal, Supplement Series, 2015, 220, 4.	7.7	3
74	Modeling polarized solar radiation from a snow surface for correction of polarization-induced error in satellite data. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 222-223, 154-169.	2.3	3
75	CONSTRUCTION OF AN E-CALLISTO STATION IN KOREA. Journal of the Korean Astronomical Society, 2009, 42, 1-7.	1.5	3
76	Intra-pixel sensitivity in NIR detectors for NGST. , 2003, , .		2
77	Development of the readout controller for KASINICS. , 2006, , .		2
78	Simultaneous dual-frequency radio observations of S5 0716+714: A search for intraday variability with the Korean VLBI Network. Astronomy and Astrophysics, 2017, 601, A12.	5.1	2
79	Spectral Trends of the Surface Regolith in Lunar Craters. Journal of Geophysical Research E: Planets, 2018, 123, 2065-2075.	3.6	2
80	Cosmological Simulations of Satellites around Isolated Dwarf Galaxies. Astrophysical Journal, 2019, 881, 115.	4.5	2
81	Making top-heavy IMFs from canonical IMFs near the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2020, 494, 325-331.	4.4	2
82	HOT GAS HALOS IN EARLY-TYPE GALAXIES AND ENVIRONMENTS. Journal of the Korean Astronomical Society, 2013, 46, 33-40.	1.5	2
83	Clues to Understanding the Microphysics of Dust in the Interstellar Comet C/2019 Q4 (Borisov). Research Notes of the AAS, 2019, 3, 138.	0.7	2
84	Dynamical Friciton near the Galactic Center. Astronomische Nachrichten, 2003, 324, 321-325.	1.2	1
85	Ultra-Low Background Operation of Near-Infrared Detectors Using Reference Pixels for NGST. , 2003, , .		1
86	DYNAMICAL EVOLUTION OF THE M87 GLOBULAR CLUSTER SYSTEM. Journal of the Korean Astronomical Society, 2010, 43, 105-113.	1.5	1
87	Dynamical Evolution of the Mass Function of the Globular Cluster System from Fokker-Planck Calculations: Preliminary Results. Proceedings of the International Astronomical Union, 2006, 2, 110-110.	0.0	0
88	Estimation of the Low-End Mass Function of the Arches Cluster. Journal of Physics: Conference Series, 2006, 54, 233-237.	0.4	0
89	3D Simulations of the 180pc Molecular Ring. Journal of Physics: Conference Series, 2006, 54, 52-56.	0.4	0
90	Dynamical Evolution of the Mass Function of the Galactic Globular Cluster System. Proceedings of the International Astronomical Union, 2007, 3, 433-434.	0.0	0

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91	Star Formation in the Central Molecular Zone of the Milky Way. Proceedings of the International Astronomical Union, 2010, 6, 359-362.	0.0	0
92	Simulations of Nuclear Star-Forming Rings: A Case of the Milky Way. Journal of Physics: Conference Series, 2012, 372, 012049.	0.4	0
93	Improved dynamical modelling of the Arches cluster. Proceedings of the International Astronomical Union, 2013, 9, 59-60.	0.0	0
94	Reddening behaviors of young stellar objects inSpitzer/IRAC bands. Astronomy and Astrophysics, 2013, 556, A48.	5.1	0
95	Formation and evolution of sub-galactic structures in a cosmological context. Proceedings of the International Astronomical Union, 2015, 11, 284-285.	0.0	0
96	Globular Clusters within Dark Matter Halos: Case Studies of 47 Tuc, NGC 1851 and M 15. Proceedings of the International Astronomical Union, 2015, 12, 336-337.	0.0	0
97	Initial Dynamical Evolution of Star Clusters with Tidal Field. Proceedings of the International Astronomical Union, 2015, 12, 261-262.	0.0	0
98	Multi-band Polarimetry of the Lunar Surface. III. Polarization Phase Curve. Publications of the Astronomical Society of the Pacific, 2019, 131, 074401.	3.1	0
99	Grain Size Dependence of Brightness Phase Curves of the Lunar Surface. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006164.	3.6	0
100	Implementation of gravitational shocks in two-dimensional Fokker-Planck models. Astronomy and Astrophysics, 2012, 541, A23.	5.1	0
101	Kinematics of the Northern Filament in Orion Molecular Clouds Complex Using ¹²CO Molecular Observation Data. Journal of the Korean Earth Science Society, 2018, 39, 519-532.	0.2	0
102	Design of polarimeter payload for 12U CubeSat. , 2020, , .		0
103	On the dust production of active asteroid (3200) Phaethon in 2009: What the DESTINY+ spaceprobe could encounter. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, , 108224.	2.3	0