

# Changbom Park

## List of Publications by Year in descending order

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96  
papers

11,198  
citations

126907

33  
h-index

42399

92  
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97  
all docs

97  
docs citations

97  
times ranked

8737  
citing authors

#	ARTICLE	IF	CITATIONS
1	THE SEVENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2009, 182, 543-558.	7.7	4,201
2	THE ELEVENTH AND TWELFTH DATA RELEASES OF THE SLOAN DIGITAL SKY SURVEY: FINAL DATA FROM SDSS-III. <i>Astrophysical Journal, Supplement Series</i> , 2015, 219, 12.	7.7	1,877
3	Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe. <i>Astronomical Journal</i> , 2017, 154, 28.	4.7	1,100
4	The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the Extended Baryon Oscillation Spectroscopic Survey and from the Second Phase of the Apache Point Observatory Galactic Evolution Experiment. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 42.	7.7	796
5	Power spectrum, correlation function, and tests for luminosity bias in the CfA redshift survey. <i>Astrophysical Journal</i> , 1994, 431, 569.	4.5	211
6	Internal and Collective Properties of Galaxies in the Sloan Digital Sky Survey. <i>Astrophysical Journal</i> , 2007, 658, 884-897.	4.5	191
7	Cosmic voids in Sloan Digital Sky Survey Data Release 7. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 926-934.	4.4	178
8	Topology of microwave background fluctuations - Theory. <i>Astrophysical Journal</i> , 1990, 352, 1.	4.5	149
9	Morphology Segregation of Galaxies in Color-Color Gradient Space. <i>Astrophysical Journal</i> , 2005, 635, L29-L32.	4.5	147
10	Topology Analysis of the Sloan Digital Sky Survey. I. Scale and Luminosity Dependence. <i>Astrophysical Journal</i> , 2005, 633, 11-22.	4.5	119
11	INTERACTIONS OF GALAXIES IN THE GALAXY CLUSTER ENVIRONMENT. <i>Astrophysical Journal</i> , 2009, 699, 1595-1609.	4.5	98
12	Topological analysis of the CfA redshift survey. <i>Astrophysical Journal</i> , 1994, 420, 525.	4.5	89
13	COMBINED EFFECTS OF GALAXY INTERACTIONS AND LARGE-SCALE ENVIRONMENT ON GALAXY PROPERTIES. <i>Astrophysical Journal</i> , 2009, 691, 1828-1845.	4.5	86
14	THE HORIZON RUN<i>N</i>-BODY SIMULATION: BARYON ACOUSTIC OSCILLATIONS AND TOPOLOGY OF LARGE-SCALE STRUCTURE OF THE UNIVERSE. <i>Astrophysical Journal</i> , 2009, 701, 1547-1559.	4.5	81
15	GOTPM: a parallel hybrid particle-mesh treecode. <i>New Astronomy</i> , 2004, 9, 111-126.	1.8	80
16	THE CHALLENGE OF THE LARGEST STRUCTURES IN THE UNIVERSE TO COSMOLOGY. <i>Astrophysical Journal Letters</i> , 2012, 759, L7.	8.3	71
17	Transformation of Morphology and Luminosity Classes of the SDSS Galaxies. <i>Astrophysical Journal</i> , 2008, 674, 784-796.	4.5	65
18	DEPENDENCE OF BARRED GALAXY FRACTION ON GALAXY PROPERTIES AND ENVIRONMENT. <i>Astrophysical Journal</i> , 2012, 745, 125.	4.5	62

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19	HORIZON RUN 4 SIMULATION: COUPLED EVOLUTION OF GALAXIES AND LARGE-SCALE STRUCTURES OF THE UNIVERSE. <i>Journal of the Korean Astronomical Society</i> , 2015, 48, 213-228.	1.5	52
20	Effects of Gravitational Evolution, Biasing, and Redshift Space Distortion on Topology. <i>Astrophysical Journal</i> , 2005, 633, 1-10.	4.5	48
21	LARGE-SCALE STRUCTURE OF THE UNIVERSE AS A COSMIC STANDARD RULER. <i>Astrophysical Journal Letters</i> , 2010, 715, L185-L188.	8.3	47
22	The topology of large-scale structure. VI - Slices of the universe. <i>Astrophysical Journal</i> , 1992, 387, 1.	4.5	47
23	BETTI NUMBERS OF GAUSSIAN FIELDS. <i>Journal of the Korean Astronomical Society</i> , 2013, 46, 125-131.	1.5	47
24	A New Halo-finding Method for N-body Simulations. <i>Astrophysical Journal</i> , 2006, 639, 600-616.	4.5	46
25	THREE-DIMENSIONAL GENUS TOPOLOGY OF LUMINOUS RED GALAXIES. <i>Astrophysical Journal</i> , 2009, 695, L45-L48.	4.5	45
26	Genus Topology of Structure in the Sloan Digital Sky Survey: Model Testing. <i>Astrophysical Journal</i> , 2008, 675, 16-28.	4.5	44
27	GALAXY CLUSTERING TOPOLOGY IN THE SLOAN DIGITAL SKY SURVEY MAIN GALAXY SAMPLE: A TEST FOR GALAXY FORMATION MODELS. <i>Astrophysical Journal, Supplement Series</i> , 2010, 190, 181-202.	7.7	42
28	Topology and geometry of Gaussian random fields I: on Betti numbers, Euler characteristic, and Minkowski functionals. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4167-4208.	4.4	42
29	THE UNAM-KIAS CATALOG OF ISOLATED GALAXIES. <i>Astronomical Journal</i> , 2010, 139, 2525-2541.	4.7	40
30	The Horizon Run 5 Cosmological Hydrodynamical Simulation: Probing Galaxy Formation from Kilo- to Gigaparsec Scales. <i>Astrophysical Journal</i> , 2021, 908, 11.	4.5	40
31	COSMOLOGICAL CONSTRAINTS FROM THE REDSHIFT DEPENDENCE OF THE ALCOCK-PACZYNSKI EFFECT: APPLICATION TO THE SDSS-III BOSS DR12 GALAXIES. <i>Astrophysical Journal</i> , 2016, 832, 103.	4.5	37
32	Dynamical evolution of topology of large-scale structure. <i>Astrophysical Journal</i> , 1991, 378, 457.	4.5	35
33	Large-scale structure in the Southern Sky Redshift Survey. <i>Astrophysical Journal</i> , 1992, 392, L51.	4.5	35
34	Genus topology of the cosmic microwave background from the WMAP 3-year data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 377, 1668-1678.	4.4	30
35	Cosmic Microwave Background Anisotropy Correlation Function and Topology from Simulated Maps for MAP. <i>Astrophysical Journal</i> , 1998, 506, 473-484.	4.5	29
36	Effects of the initial conditions on cosmological N-body simulations. <i>New Astronomy</i> , 2014, 30, 79-88.	1.8	28

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37	EVIDENCE FOR MORPHOLOGY AND LUMINOSITY TRANSFORMATION OF GALAXIES AT HIGH REDSHIFTS. <i>Astrophysical Journal</i> , 2009, 700, 791-798.	4.5	27
38	Star Formation Activity of Barred Spiral Galaxies. <i>Astrophysical Journal</i> , 2017, 845, 93.	4.5	27
39	Topology of the Galaxy Distribution in the Hubble Deep Fields. <i>Astrophysical Journal</i> , 2001, 553, 33-38.	4.5	27
40	Cosmological Constraints from the Redshift Dependence of the Alcockâ€“Paczynski Effect: Dynamical Dark Energy. <i>Astrophysical Journal</i> , 2018, 856, 88.	4.5	26
41	HECTOMAP AND HORIZON RUN 4: DENSE STRUCTURES AND VOIDS IN THE REAL AND SIMULATED UNIVERSE. <i>Astrophysical Journal</i> , 2016, 818, 173.	4.5	25
42	THE MOST BOUND HALO PARTICLEâ€“GALAXY CORRESPONDENCE MODEL: COMPARISON BETWEEN MODELS WITH DIFFERENT MERGER TIMESCALES. <i>Astrophysical Journal</i> , 2016, 823, 103.	4.5	25
43	A novel probe of ionized bubble shape and size statistics of the epoch of reionization using the contour Minkowski Tensor. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 011-011.	5.4	25
44	The topology of large-scale structure. V - Two-dimensional topology of sky maps. <i>Astrophysical Journal</i> , 1992, 385, 26.	4.5	25
45	Power Spectrum of Cosmic Momentum Field Measured from the SFI Galaxy Sample. <i>Astrophysical Journal</i> , 2006, 637, 1-11.	4.5	24
46	Galaxy evolution in merging clusters: The passive core of the â€œTrain Wreckâ€•cluster of galaxies, Aâ€“520. <i>Astronomy and Astrophysics</i> , 2017, 607, A131.	5.1	24
47	A Subhaloâ€“Galaxy Correspondence Model of Galaxy Biasing. <i>Astrophysical Journal</i> , 2008, 683, 123-136.	4.5	23
48	Topology from the Simulated Sloan Digital Sky Survey. <i>Astrophysical Journal</i> , 2000, 529, 795-810.	4.5	23
49	Tensor Minkowski Functionals for random fields on the sphere. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 023-023.	5.4	22
50	Environment and mass dependencies of galactic $\hat{\nu}$ spin parameter: cosmological simulations and observed galaxies compared. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 863-872.	4.4	20
51	TOPOLOGY OF A LARGE-SCALE STRUCTURE AS A TEST OF MODIFIED GRAVITY. <i>Astrophysical Journal</i> , 2012, 747, 48.	4.5	20
52	HOT AND COLD SPOT COUNTS AS PROBES OF NON-GAUSSIANITY IN THE COSMIC MICROWAVE BACKGROUND. <i>Astrophysical Journal</i> , 2012, 755, 122.	4.5	20
53	New Fitting Formula for Cosmic Nonlinear Density Distribution. <i>Astrophysical Journal</i> , 2017, 843, 73.	4.5	20
54	Infalling groups and galaxy transformations in the cluster A2142. <i>Astronomy and Astrophysics</i> , 2018, 610, A82.	5.1	20

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55	2D GENUS TOPOLOGY OF 21-CM DIFFERENTIAL BRIGHTNESS TEMPERATURE DURING COSMIC REIONIZATION. <i>Journal of the Korean Astronomical Society</i> , 2014, 47, 49-67.	1.5	20
56	Dark matter haloes in modified gravity and dark energy: interaction rate, small- and large-scale alignment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 3174-3183.	4.4	19
57	Minkowski Tensors in Two Dimensions: Probing the Morphology and Isotropy of the Matter and Galaxy Density Fields. <i>Astrophysical Journal</i> , 2018, 858, 87.	4.5	19
58	Topology of HiGas Distribution in the Large Magellanic Cloud. <i>Astrophysical Journal</i> , 2007, 663, 244-248.	4.5	18
59	Tracing a high redshift cosmic web with quasar systems. <i>Astronomy and Astrophysics</i> , 2014, 568, A46.	5.1	18
60	Residual foreground contamination in the WMAP data and bias in non-Gaussianity estimation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 031-031.	5.4	16
61	ON THE GALACTIC SPIN OF BARRED DISK GALAXIES. <i>Astrophysical Journal</i> , 2013, 775, 19.	4.5	16
62	DARK MATTER HALOS OF BARRED DISK GALAXIES. <i>Astrophysical Journal</i> , 2015, 807, 111.	4.5	16
63	Constraining cosmology with big data statistics of cosmological graphs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 5972-5986.	4.4	16
64	Minkowski Tensors in Three Dimensions: Probing the Anisotropy Generated by Redshift Space Distortion. <i>Astrophysical Journal</i> , 2018, 863, 200.	4.5	15
65	On Minkowski Functionals of CMB polarization. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 771, 67-73.	4.1	14
66	Alcockâ€Paczynski Test with the Evolution of Redshift-space Galaxy Clustering Anisotropy. <i>Astrophysical Journal</i> , 2019, 881, 146.	4.5	14
67	LARGE SDSS QUASAR GROUPS AND THEIR STATISTICAL SIGNIFICANCE. <i>Journal of the Korean Astronomical Society</i> , 2015, 48, 75-82.	1.5	14
68	Cosmological Parameter Estimation Using the Genus Amplitudeâ€Application to Mock Galaxy Catalogs. <i>Astrophysical Journal</i> , 2018, 853, 17.	4.5	13
69	TWO-DIMENSIONAL TOPOLOGY OF COSMOLOGICAL REIONIZATION. <i>Astrophysical Journal</i> , 2015, 814, 6.	4.5	12
70	Cosmological Information from the Small-scale Redshift-space Distortion. <i>Astrophysical Journal</i> , 2020, 897, 17.	4.5	12
71	Minkowski Functionals of SDSS-III BOSS: Hints of Possible Anisotropy in the Density Field?. <i>Astrophysical Journal</i> , 2022, 928, 108.	4.5	12
72	QUASARS AS A TRACER OF LARGE-SCALE STRUCTURES IN THE DISTANT UNIVERSE. <i>Astrophysical Journal</i> , 2016, 827, 104.	4.5	11

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73	A Redshift Survey of the Nearby Galaxy Cluster Abell 2199: Comparison of the Spatial and Kinematic Distributions of Galaxies with the Intracluster Medium. <i>Astrophysical Journal</i> , 2017, 842, 88.	4.5	11
74	Evolution of Late-type Galaxies in a Cluster Environment: Effects of High-speed Multiple Encounters with Early-type Galaxies. <i>Astrophysical Journal</i> , 2018, 856, 160.	4.5	11
75	Effects of Foreground Contamination on the Cosmic Microwave Background Anisotropy Measured byMAP. <i>Astrophysical Journal</i> , 2002, 568, 9-19.	4.5	11
76	EFFECTS OF HOT HALO GAS ON STAR FORMATION AND MASS TRANSFER DURING DISTANT GALAXY-GALAXY ENCOUNTERS. <i>Astrophysical Journal</i> , 2015, 805, 131.	4.5	10
77	Topology of Large-scale Structures of Galaxies in Two Dimensions—Systematic Effects. <i>Astrophysical Journal</i> , 2017, 836, 45.	4.5	10
78	Evidence for Impact of Galaxy Mergers on Stellar Kinematics of Early-type Galaxies. <i>Astrophysical Journal</i> , 2022, 925, 168.	4.5	10
79	A Redshift Survey of the Nearby Galaxy Cluster A2107: Global Rotation of the Cluster and Its Connection to Large-scale Structures in the Universe. <i>Astrophysical Journal</i> , 2018, 869, 124.	4.5	9
80	Identification of Cosmic Voids as Massive Cluster Counterparts. <i>Astrophysical Journal</i> , 2021, 908, 211.	4.5	9
81	Cosmological Parameter Estimation from the Two-dimensional Genus Topology: Measuring the Shape of the Matter Power Spectrum. <i>Astrophysical Journal</i> , 2020, 896, 145.	4.5	9
82	HORIZON RUN 3: TOPOLOGY AS A STANDARD RULER. <i>Astrophysical Journal</i> , 2015, 799, 176.	4.5	8
83	Cosmological Parameter Estimation from the Two-dimensional Genus Topology—Measuring the Expansion History Using the Genus Amplitude as a Standard Ruler. <i>Astrophysical Journal</i> , 2021, 907, 75.	4.5	8
84	Cosmological Constraints from the Redshift Dependence of the Volume Effect Using the Galaxy 2-point Correlation Function across the Line of Sight. <i>Astrophysical Journal</i> , 2017, 844, 91.	4.5	8
85	Dependence of the Fundamental Plane of Early-type Galaxies on Age and Internal Structure. <i>Astrophysical Journal</i> , 2020, 897, 121.	4.5	7
86	Rotation Curves of Galaxies and Their Dependence on Morphology and Stellar Mass. <i>Astrophysical Journal</i> , 2021, 922, 249.	4.5	7
87	Detection of a Cross-correlation between Cosmic Microwave Background Lensing and Low-density Points. <i>Astrophysical Journal</i> , 2021, 923, 153.	4.5	7
88	Ecology of dark matter haloes —II. Effects of interactions on the alignment of halo pairs. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stx124.	4.4	6
89	Resolution convergence in cosmological hydrodynamical simulations using adaptive mesh refinement. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 983-1003.	4.4	6
90	Ensemble Average of Three-dimensional Minkowski Tensors of a Gaussian Random Field in Redshift Space. <i>Astrophysical Journal</i> , 2019, 887, 128.	4.5	5

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91	THE INITIAL CONDITIONS AND EVOLUTION OF ISOLATED GALAXY MODELS: EFFECTS OF THE HOT GAS HALO. Journal of the Korean Astronomical Society, 2013, 46, 1-32.	1.5	4
92	Point-spread Function Deconvolution of the IFU Data and Restoration of Galaxy Stellar Kinematics. Astrophysical Journal, Supplement Series, 2021, 257, 66.	7.7	4
93	Demise of faint satellites around isolated early-type galaxies. Nature Astronomy, 2018, 2, 162-166.	10.1	3
94	Topology of neutral hydrogen distribution with the Square Kilometre Array. , 2015, , .		2
95	The Galaxy Environment of Extremely Massive Quasars. I. An Overdensity of H $\beta$ Emitters at $z = 1.47$ . Astrophysical Journal, 2021, 920, 74.	4.5	0
96	A novel approach for calculating galaxy rotation curves using spaxel cross-correlation and iterative smoothing. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2278-2297.	4.4	0