

Changbom Park

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Evidence for Impact of Galaxy Mergers on Stellar Kinematics of Early-type Galaxies. <i>Astrophysical Journal</i> , 2022, 925, 168.	4.5	10
2	Minkowski Functionals of SDSS-III BOSS: Hints of Possible Anisotropy in the Density Field?. <i>Astrophysical Journal</i> , 2022, 928, 108.	4.5	12
3	A novel approach for calculating galaxy rotation curves using spaxel cross-correlation and iterative smoothing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 2278-2297.	4.4	0
4	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
5	Identification of Cosmic Voids as Massive Cluster Counterparts. <i>Astrophysical Journal</i> , 2021, 908, 211.	4.5	9
6	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
7	The Galaxy Environment of Extremely Massive Quasars. I. An Overdensity of H α Emitters at $z = 1.47$. <i>Astrophysical Journal</i> , 2021, 920, 74.	4.5	0
8	Rotation Curves of Galaxies and Their Dependence on Morphology and Stellar Mass. <i>Astrophysical Journal</i> , 2021, 922, 249.	4.5	7
9	Point-spread Function Deconvolution of the IFU Data and Restoration of Galaxy Stellar Kinematics. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 66.	7.7	4
10	Detection of a Cross-correlation between Cosmic Microwave Background Lensing and Low-density Points. <i>Astrophysical Journal</i> , 2021, 923, 153.	4.5	7
11	Dependence of the Fundamental Plane of Early-type Galaxies on Age and Internal Structure. <i>Astrophysical Journal</i> , 2020, 897, 121.	4.5	7
12	Cosmological Information from the Small-scale Redshift-space Distortion. <i>Astrophysical Journal</i> , 2020, 897, 17.	4.5	12
13	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
14	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
15	Alcock—Paczynski Test with the Evolution of Redshift-space Galaxy Clustering Anisotropy. <i>Astrophysical Journal</i> , 2019, 881, 146.	4.5	14
16	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
17	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
18	Cosmological Parameter Estimation Using the Genus Amplitude—Application to Mock Galaxy Catalogs. <i>Astrophysical Journal</i> , 2018, 853, 17.	4.5	13

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19	Demise of faint satellites around isolated early-type galaxies. <i>Nature Astronomy</i> , 2018, 2, 162-166.	10.1	3
20	Cosmological Constraints from the Redshift Dependence of the Alcock-Paczynski Effect: Dynamical Dark Energy. <i>Astrophysical Journal</i> , 2018, 856, 88.	4.5	26
21	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
22	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
23	Infalling groups and galaxy transformations in the cluster A2142. <i>Astronomy and Astrophysics</i> , 2018, 610, A82.	5.1	20
24	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
25	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
26	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
27	Minkowski Tensors in Three Dimensions: Probing the Anisotropy Generated by Redshift Space Distortion. <i>Astrophysical Journal</i> , 2018, 863, 200.	4.5	15
28	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
29	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
30	Star Formation Activity of Barred Spiral Galaxies. <i>Astrophysical Journal</i> , 2017, 845, 93.	4.5	27
31	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
32	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
33	New Fitting Formula for Cosmic Nonlinear Density Distribution. <i>Astrophysical Journal</i> , 2017, 843, 73.	4.5	20
34	Tensor Minkowski Functionals for random fields on the sphere. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 023-023.	5.4	22
35	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
36	Topology of Large-scale Structures of Galaxies in Two Dimensions – Systematic Effects. <i>Astrophysical Journal</i> , 2017, 836, 45.	4.5	10

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37	Galaxy evolution in merging clusters: The passive core of the "Train Wreck" cluster of galaxies, <i>Astronomy and Astrophysics</i> , 2017, 607, A131.	5.1	24
38	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
39	QUASARS AS A TRACER OF LARGE-SCALE STRUCTURES IN THE DISTANT UNIVERSE. <i>Astrophysical Journal</i> , 2016, 827, 104.	4.5	11
40	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
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 PARTICLE " GALAXY CORRESPONDENCE MODEL: COMPARISON BETWEEN MODELS WITH DIFFERENT MERGER TIMESCALES. <i>Astrophysical Journal</i> , 2016, 823, 103.	4.5	25
43	HORIZON RUN 3: TOPOLOGY AS A STANDARD RULER. <i>Astrophysical Journal</i> , 2015, 799, 176.	4.5	8
44	DARK MATTER HALOS OF BARRED DISK GALAXIES. <i>Astrophysical Journal</i> , 2015, 807, 111.	4.5	16
45	THE ELEVENTH AND TWELFTH DATA RELEASES OF THE SLOAN DIGITAL SKY SURVEY: FINAL DATA FROM SDSS-III. <i>Astrophysical Journal</i> , Supplement Series, 2015, 219, 12.	7.7	1,877
46	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
47	TWO-DIMENSIONAL TOPOLOGY OF COSMOLOGICAL REIONIZATION. <i>Astrophysical Journal</i> , 2015, 814, 6.	4.5	12
48	Topology of neutral hydrogen distribution with the Square Kilometre Array. , 2015, , .		2
49	LARGE SDSS QUASAR GROUPS AND THEIR STATISTICAL SIGNIFICANCE. <i>Journal of the Korean Astronomical Society</i> , 2015, 48, 75-82.	1.5	14
50	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
51	Tracing a high redshift cosmic web with quasar systems. <i>Astronomy and Astrophysics</i> , 2014, 568, A46.	5.1	18
52	Effects of the initial conditions on cosmological N-body simulations. <i>New Astronomy</i> , 2014, 30, 79-88.	1.8	28
53	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
54	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

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55	ON THE GALACTIC SPIN OF BARRED DISK GALAXIES. <i>Astrophysical Journal</i> , 2013, 775, 19.	4.5	16
56	THE INITIAL CONDITIONS AND EVOLUTION OF ISOLATED GALAXY MODELS: EFFECTS OF THE HOT GAS HALO. <i>Journal of the Korean Astronomical Society</i> , 2013, 46, 1-32.	1.5	4
57	BETTI NUMBERS OF GAUSSIAN FIELDS. <i>Journal of the Korean Astronomical Society</i> , 2013, 46, 125-131.	1.5	47
58	THE CHALLENGE OF THE LARGEST STRUCTURES IN THE UNIVERSE TO COSMOLOGY. <i>Astrophysical Journal Letters</i> , 2012, 759, L7.	8.3	71
59	TOPOLOGY OF A LARGE-SCALE STRUCTURE AS A TEST OF MODIFIED GRAVITY. <i>Astrophysical Journal</i> , 2012, 747, 48.	4.5	20
60	DEPENDENCE OF BARRED GALAXY FRACTION ON GALAXY PROPERTIES AND ENVIRONMENT. <i>Astrophysical Journal</i> , 2012, 745, 125.	4.5	62
61	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
62	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
63	LARGE-SCALE STRUCTURE OF THE UNIVERSE AS A COSMIC STANDARD RULER. <i>Astrophysical Journal Letters</i> , 2010, 715, L185-L188.	8.3	47
64	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
65	THE UNAM-KIAS CATALOG OF ISOLATED GALAXIES. <i>Astronomical Journal</i> , 2010, 139, 2525-2541.	4.7	40
66	THREE-DIMENSIONAL GENUS TOPOLOGY OF LUMINOUS RED GALAXIES. <i>Astrophysical Journal</i> , 2009, 695, L45-L48.	4.5	45
67	INTERACTIONS OF GALAXIES IN THE GALAXY CLUSTER ENVIRONMENT. <i>Astrophysical Journal</i> , 2009, 699, 1595-1609.	4.5	98
68	EVIDENCE FOR MORPHOLOGY AND LUMINOSITY TRANSFORMATION OF GALAXIES AT HIGH REDSHIFTS. <i>Astrophysical Journal</i> , 2009, 700, 791-798.	4.5	27
69	COMBINED EFFECTS OF GALAXY INTERACTIONS AND LARGE-SCALE ENVIRONMENT ON GALAXY PROPERTIES. <i>Astrophysical Journal</i> , 2009, 691, 1828-1845.	4.5	86
70	THE HORIZON RUN- N -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
71	THE SEVENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2009, 182, 543-558.	7.7	4,201
72	Environment and mass dependencies of galactic \hat{h} spin parameter: cosmological simulations and observed galaxies compared. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 863-872.	4.4	20

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73	Genus Topology of Structure in the Sloan Digital Sky Survey: Model Testing. <i>Astrophysical Journal</i> , 2008, 675, 16-28.	4.5	44
74	A Subhalo-Galaxy Correspondence Model of Galaxy Biasing. <i>Astrophysical Journal</i> , 2008, 683, 123-136.	4.5	23
75	Transformation of Morphology and Luminosity Classes of the SDSS Galaxies. <i>Astrophysical Journal</i> , 2008, 674, 784-796.	4.5	65
76	Topology of HiGas Distribution in the Large Magellanic Cloud. <i>Astrophysical Journal</i> , 2007, 663, 244-248.	4.5	18
77	Internal and Collective Properties of Galaxies in the Sloan Digital Sky Survey. <i>Astrophysical Journal</i> , 2007, 658, 884-897.	4.5	191
78	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
79	Power Spectrum of Cosmic Momentum Field Measured from the SFI Galaxy Sample. <i>Astrophysical Journal</i> , 2006, 637, 1-11.	4.5	24
80	A New Halo-finding Method for N-body Simulations. <i>Astrophysical Journal</i> , 2006, 639, 600-616.	4.5	46
81	Topology Analysis of the Sloan Digital Sky Survey. I. Scale and Luminosity Dependence. <i>Astrophysical Journal</i> , 2005, 633, 11-22.	4.5	119
82	Morphology Segregation of Galaxies in Color-Color Gradient Space. <i>Astrophysical Journal</i> , 2005, 635, L29-L32.	4.5	147
83	Effects of Gravitational Evolution, Biasing, and Redshift Space Distortion on Topology. <i>Astrophysical Journal</i> , 2005, 633, 1-10.	4.5	48
84	GOTPM: a parallel hybrid particle-mesh treecode. <i>New Astronomy</i> , 2004, 9, 111-126.	1.8	80
85	Effects of Foreground Contamination on the Cosmic Microwave Background Anisotropy Measured by MAP. <i>Astrophysical Journal</i> , 2002, 568, 9-19.	4.5	11
86	Topology of the Galaxy Distribution in the Hubble Deep Fields. <i>Astrophysical Journal</i> , 2001, 553, 33-38.	4.5	27
87	Topology from the Simulated Sloan Digital Sky Survey. <i>Astrophysical Journal</i> , 2000, 529, 795-810.	4.5	23
88	Cosmic Microwave Background Anisotropy Correlation Function and Topology from Simulated Maps for MAP. <i>Astrophysical Journal</i> , 1998, 506, 473-484.	4.5	29
89	Topological analysis of the CfA redshift survey. <i>Astrophysical Journal</i> , 1994, 420, 525.	4.5	89
90	Power spectrum, correlation function, and tests for luminosity bias in the CfA redshift survey. <i>Astrophysical Journal</i> , 1994, 431, 569.	4.5	211

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91	The topology of large-scale structure. V - Two-dimensional topology of sky maps. Astrophysical Journal, 1992, 385, 26.	4.5	25
92	The topology of large-scale structure. VI - Slices of the universe. Astrophysical Journal, 1992, 387, 1.	4.5	47
93	Large-scale structure in the Southern Sky Redshift Survey. Astrophysical Journal, 1992, 392, L51.	4.5	35
94	Dynamical evolution of topology of large-scale structure. Astrophysical Journal, 1991, 378, 457.	4.5	35
95	Topology of microwave background fluctuations - Theory. Astrophysical Journal, 1990, 352, 1.	4.5	149
96	Ecology of dark matter haloes II. Effects of interactions on the alignment of halo pairs. Monthly Notices of the Royal Astronomical Society, 0, , stx124.	4.4	6