

Kyungjin Ahn

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,169
citations

471509

17
h-index

580821

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g-index

27
all docs

27
docs citations

27
times ranked

909
citing authors

#	ARTICLE	IF	CITATIONS
1	GALAXY PROPERTIES AND UV ESCAPE FRACTIONS DURING THE EPOCH OF REIONIZATION: RESULTS FROM THE RENAISSANCE SIMULATIONS. <i>Astrophysical Journal</i> , 2016, 833, 84.	4.5	155
2	Simulating cosmic reionization: how large a volume is large enough?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 725-743.	4.4	154
3	THE INHOMOGENEOUS BACKGROUND OF H_{2} -DISSOCIATING RADIATION DURING COSMIC REIONIZATION. <i>Astrophysical Journal</i> , 2009, 695, 1430-1445.	4.5	109
4	Redshift-space distortion of the 21-cm background from the epoch of reionization - I. Methodology re-examined. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 926-954.	4.4	102
5	DETECTING THE RISE AND FALL OF THE FIRST STARS BY THEIR IMPACT ON COSMIC REIONIZATION. <i>Astrophysical Journal Letters</i> , 2012, 756, L16.	8.3	96
6	Cosmic Dawn II (CoDa II): a new radiation-hydrodynamics simulation of the self-consistent coupling of galaxy formation and reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 4087-4107.	4.4	89
7	Light-cone effect on the reionization 21-cm power spectrum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 424, 1877-1891.	4.4	87
8	THE KINETIC SUNYAEV-ZEL'DOVICH EFFECT AS A PROBE OF THE PHYSICS OF COSMIC REIONIZATION: THE EFFECT OF SELF-REGULATED REIONIZATION. <i>Astrophysical Journal</i> , 2013, 769, 93.	4.5	64
9	HEATING THE INTERGALACTIC MEDIUM BY X-RAYS FROM POPULATION III BINARIES IN HIGH-REDSHIFT GALAXIES. <i>Astrophysical Journal</i> , 2014, 791, 110.	4.5	50
10	Non-linear bias of cosmological halo formation in the early universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 1486-1502.	4.4	34
11	THE HYDRODYNAMIC FEEDBACK OF COSMIC REIONIZATION ON SMALL-SCALE STRUCTURES AND ITS IMPACT ON PHOTON CONSUMPTION DURING THE EPOCH OF REIONIZATION. <i>Astrophysical Journal</i> , 2016, 831, 86.	4.5	33
12	Will Nonlinear Peculiar Velocity and Inhomogeneous Reionization Spoil 21cm Cosmology from the Epoch of Reionization?. <i>Physical Review Letters</i> , 2013, 110, 151301.	7.8	24
13	SPATIALLY EXTENDED 21 cm SIGNAL FROM STRONGLY CLUSTERED UV AND X-RAY SOURCES IN THE EARLY UNIVERSE. <i>Astrophysical Journal</i> , 2015, 802, 8.	4.5	22
14	HOW THE DENSITY ENVIRONMENT CHANGES THE INFLUENCE OF THE DARK MATTER BARYON STREAMING VELOCITY ON COSMOLOGICAL STRUCTURE FORMATION. <i>Astrophysical Journal</i> , 2016, 830, 68.	4.5	22
15	Lyman- τ transmission properties of the intergalactic medium in the CoDaII simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 3697-3709.	4.4	20
16	The impact of inhomogeneous subgrid clumping on cosmic reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 1600-1621.	4.4	19
17	Crucial Factors for Ly τ Transmission in the Reionizing Intergalactic Medium: Infall Motion, H II Bubble Size, and Self-shielded Systems. <i>Astrophysical Journal</i> , 2021, 922, 263.	4.5	17
18	Large-scale Variation in Reionization History Caused by Baryon Dark Matter Streaming Velocity. <i>Astrophysical Journal</i> , 2021, 908, 96.	4.5	13

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19	Cosmic Reionization May Still Have Started Early and Ended Late: Confronting Early Onset with Cosmic Microwave Background Anisotropy and 21 cm Global Signals. <i>Astrophysical Journal</i> , 2021, 914, 44.	4.5	13
20	The impact of inhomogeneous subgrid clumping on cosmic reionization – II. Modelling stochasticity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 2443-2460.	4.4	12
21	First Structure Formation under the Influence of Gas – Dark Matter Streaming Velocity and Density: Impact of the – Baryons Trace Dark Matter – Approximation. <i>Astrophysical Journal</i> , 2020, 900, 30.	4.5	12
22	Formation of First Galaxies inside Density Peaks and Voids under the Influence of Dark Matter – Baryon Streaming Velocity. I. Initial Condition and Simulation Scheme. <i>Astrophysical Journal</i> , 2018, 869, 76.	4.5	9
23	Modelling the stochasticity of high-redshift halo bias. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 3294-3309.	4.4	9
24	Probing the Early History of Cosmic Reionization by Future Cosmic Microwave Background Experiments. <i>Astrophysical Journal</i> , 2022, 930, 140.	4.5	2
25	The Inhomogeneous Background of H ₂ Dissociating Radiation During Cosmic Reionization. , 2008, , .		1
26	Scattering of Ly α Photons through the Reionizing Intergalactic Medium: I. Spectral Energy Distribution. <i>Astrophysical Journal</i> , 2022, 931, 126.	4.5	1
27	Cosmological Reionization by the First Stars in the H ₂ -Dissociating Background. , 2010, , .		0