

# 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

25  
g-index

27  
all docs

27  
docs citations

27  
times ranked

909  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the Early History of Cosmic Reionization by Future Cosmic Microwave Background Experiments. <i>Astrophysical Journal</i> , 2022, 930, 140.	4.5	2
2	Scattering of Ly $\alpha$ Photons through the Reionizing Intergalactic Medium: I. Spectral Energy Distribution. <i>Astrophysical Journal</i> , 2022, 931, 126.	4.5	1
3	Large-scale Variation in Reionization History Caused by Baryonâ€Dark Matter Streaming Velocity. <i>Astrophysical Journal</i> , 2021, 908, 96.	4.5	13
4	The impact of inhomogeneous subgrid clumping on cosmic reionization â€ II. Modelling stochasticity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 2443-2460.	4.4	12
5	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
6	Lyman- $\alpha$ transmission properties of the intergalactic medium in the CoDall simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 3697-3709.	4.4	20
7	Crucial Factors for Ly $\alpha$ 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
8	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
9	Modelling the stochasticity of high-redshift halo bias. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 3294-3309.	4.4	9
10	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
11	First Structure Formation under the Influence of Gasâ€Dark Matter Streaming Velocity and Density: Impact of the â€Baryons Trace Dark Matterâ€Approximation. <i>Astrophysical Journal</i> , 2020, 900, 30.	4.5	12
12	Formation of First Galaxies inside Density Peaks and Voids under the Influence of Dark Matterâ€Baryon Streaming Velocity. I. Initial Condition and Simulation Scheme. <i>Astrophysical Journal</i> , 2018, 869, 76.	4.5	9
13	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
14	HOW THE DENSITY ENVIRONMENT CHANGES THE INFLUENCE OF THE DARK MATTERâ€BARYON STREAMING VELOCITY ON COSMOLOGICAL STRUCTURE FORMATION. <i>Astrophysical Journal</i> , 2016, 830, 68.	4.5	22
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Simulating cosmic reionization: how large a volume is large enough?. Monthly Notices of the Royal Astronomical Society, 2014, 439, 725-743.	4.4	154
20	Will Nonlinear Peculiar Velocity and Inhomogeneous Reionization Spoil $21\text{cm}$ Cosmology from the Epoch of Reionization?. Physical Review Letters, 2013, 110, 151301.	7.8	24
21	THE KINETIC SUNYAEV-ZEL'DOVICH EFFECT AS A PROBE OF THE PHYSICS OF COSMIC REIONIZATION: THE EFFECT OF SELF-REGULATED REIONIZATION. Astrophysical Journal, 2013, 769, 93.	4.5	64
22	DETECTING THE RISE AND FALL OF THE FIRST STARS BY THEIR IMPACT ON COSMIC REIONIZATION. Astrophysical Journal Letters, 2012, 756, L16.	8.3	96
23	Redshift-space distortion of the 21-cm background from the epoch of reionization - I. Methodology re-examined. Monthly Notices of the Royal Astronomical Society, 2012, 422, 926-954.	4.4	102
24	Light-cone effect on the reionization 21-cm power spectrum. Monthly Notices of the Royal Astronomical Society, 2012, 424, 1877-1891.	4.4	87
25	Cosmological Reionization by the First Stars in the $\text{H}_{\text{II}}$ -Dissociating Background. , 2010, , .		0
26	THE INHOMOGENEOUS BACKGROUND OF $\text{H}_{\text{II}}$ -DISSOCIATING RADIATION DURING COSMIC REIONIZATION. Astrophysical Journal, 2009, 695, 1430-1445.	4.5	109
27	The Inhomogeneous Background of $\text{H}_2$ Dissociating Radiation During Cosmic Reionization. , 2008, , .		1