

Nicholas Battaglia

List of Publications by Year in descending order

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26
papers

1,009
citations

567144

15
h-index

552653

26
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docs citations

26
times ranked

1186
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-resolution view of the filament of gas between Abell 399 and Abell 401 from the Atacama Cosmology Telescope and MUSTANG-2. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3335-3355.	1.6	14
2	Constraining Cluster Virialization Mechanism and Cosmology Using Thermal-SZ-selected Clusters from Future CMB Surveys. Astrophysical Journal, 2022, 926, 172.	1.6	16
3	Probing Hot Gas Components of the Circumgalactic Medium in Cosmological Simulations with the Thermal Sunyaev-Zeldovich Effect. Astrophysical Journal, 2022, 926, 179.	1.6	9
4	The CAMELS Multifield Data Set: Learning the Universe's Fundamental Parameters with Artificial Intelligence. Astrophysical Journal, Supplement Series, 2022, 259, 61.	3.0	30
5	Percent-level constraints on baryonic feedback with spectral distortion measurements. Physical Review D, 2022, 105, .	1.6	6
6	The Circumgalactic Medium from the CAMELS Simulations: Forecasting Constraints on Feedback Processes from Future Sunyaev-Zeldovich Observations. Astrophysical Journal, 2022, 933, 133.	1.6	11
7	The Atacama Cosmology Telescope: SZ-based masses and dust emission from IR-selected cluster candidates in the SHELA survey. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4026-4038.	1.6	3
8	Atacama Cosmology Telescope: Modeling the gas thermodynamics in BOSS CMASS galaxies from kinematic and thermal Sunyaev-Zeldovich measurements. Physical Review D, 2021, 103, .	1.6	60
9	Atacama Cosmology Telescope: Combined kinematic and thermal Sunyaev-Zeldovich measurements from BOSS CMASS and LOWZ halos. Physical Review D, 2021, 103, .	1.6	76
10	A space mission to map the entire observable universe using the CMB as a backlight. Experimental Astronomy, 2021, 51, 1555-1591.	1.6	4
11	The CAMELS Project: Cosmology and Astrophysics with Machine-learning Simulations. Astrophysical Journal, 2021, 915, 71.	1.6	113
12	Microwave spectro-polarimetry of matter and radiation across space and time. Experimental Astronomy, 2021, 51, 1471-1514.	1.6	15
13	The Impacts of Modeling Choices on the Inference of Circumgalactic Medium Properties from Sunyaev-Zeldovich Observations. Astrophysical Journal, 2021, 919, 2.	1.6	9
14	Constraining reionization with the first measurement of the cross-correlation between the CMB optical-depth fluctuations and the Compton y -map. Physical Review D, 2021, 104, https://www.aps.org/publications/aps/abstract/PRA/2021/10/4/10401 .	1.6	6
15	Constraining modified gravity model parameters with cluster abundances and galaxy clustering. Physical Review D, 2021, 104, .	1.6	4
16	Atacama Cosmology Telescope: Component-separated maps of CMB temperature and the thermal Sunyaev-Zeldovich effect. Physical Review D, 2020, 102, .	1.6	56
17	The Websky extragalactic CMB simulations. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 012-012.	1.9	51
18	The Atacama Cosmology Telescope: a CMB lensing mass map over 2100 square degrees of sky and its cross-correlation with BOSS-CMASS galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2250-2263.	1.6	68

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19	First Results from SMAUG: Uncovering the Origin of the Multiphase Circumgalactic Medium with a Comparative Analysis of Idealized and Cosmological Simulations. <i>Astrophysical Journal</i> , 2020, 903, 32.	1.6	38
20	Cosmology with the kinematic Sunyaev-Zeldovich effect: Breaking the optical depth degeneracy with fast radio bursts. <i>Physical Review D</i> , 2019, 100, .	1.6	41
21	Improving constraints on fundamental physics parameters with the clustering of Sunyaev-Zeldovich selected galaxy clusters. <i>Physical Review D</i> , 2019, 100, .	1.6	4
22	The Atacama Cosmology Telescope: The Two-season ACTPol Sunyaev-Zeldovich Effect Selected Cluster Catalog. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 20.	3.0	121
23	Future constraints on halo thermodynamics from combined Sunyaev-Zeldovich measurements. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 040-040.	1.9	44
24	Fundamental physics from future weak-lensing calibrated Sunyaev-Zeldovich galaxy cluster counts. <i>Physical Review D</i> , 2017, 96, .	1.6	38
25	Evidence for the kinematic Sunyaev-Zeldovich effect with the Atacama Cosmology Telescope and velocity reconstruction from the Baryon Oscillation Spectroscopic Survey. <i>Physical Review D</i> , 2016, 93, .	1.6	90
26	THE STACKED THERMAL SUNYAEV-ZELDOVICH SIGNAL OF LOCALLY BRIGHTEST GALAXIES IN PLANCK FULL MISSION DATA: EVIDENCE FOR GALAXY FEEDBACK?. <i>Astrophysical Journal</i> , 2015, 808, 151.	1.6	82