Zarija Lukić

List of Publications by Year in descending order

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Ζλαιιλ ΓιικιÄt

#	Article	IF	CITATIONS
1	Haloes gone MADâ˜: The Halo-Finder Comparison Project. Monthly Notices of the Royal Astronomical Society, 2011, 415, 2293-2318.	4.4	302
2	Quantitative Constraints on the Reionization History from the IGM Damping Wing Signature in Two Quasars at zÂ>Â7. Astrophysical Journal, 2018, 864, 142.	4.5	197
3	Nyx: A MASSIVELY PARALLEL AMR CODE FOR COMPUTATIONAL COSMOLOGY. Astrophysical Journal, 2013, 765, 39.	4.5	192
4	The Halo Mass Function: Highâ€Redshift Evolution and Universality. Astrophysical Journal, 2007, 671, 1160-1181.	4.5	184
5	HACC: Simulating sky surveys on state-of-the-art supercomputing architectures. New Astronomy, 2016, 42, 49-65.	1.8	166
6	MASS FUNCTION PREDICTIONS BEYOND $\hat{\mathcal{W}}$ CDM. Astrophysical Journal, 2011, 732, 122.	4.5	164
7	Structure finding in cosmological simulations: the state of affairs. Monthly Notices of the Royal Astronomical Society, 2013, 435, 1618-1658.	4.4	138
8	The Lyman α forest in optically thin hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2015, 446, 3697-3724.	4.4	133
9	Implications of zÂâ^1⁄4Â6 Quasar Proximity Zones for the Epoch of Reionization and Quasar Lifetimes. Astrophysical Journal, 2017, 840, 24.	4.5	122
10	New Constraints on IGM Thermal Evolution from the Lyα Forest Power Spectrum. Astrophysical Journal, 2019, 872, 13.	4.5	109
11	The cosmic code comparison project. Computational Science & Discovery, 2008, 1, 015003.	1.5	99
12	Self-consistent Modeling of Reionization in Cosmological Hydrodynamical Simulations. Astrophysical Journal, 2017, 837, 106.	4.5	85
13	THE STRUCTURE OF HALOS: IMPLICATIONS FOR GROUP AND CLUSTER COSMOLOGY. Astrophysical Journal, 2009, 692, 217-228.	4.5	82
14	Cosmic Ray Radiography of the Damaged Cores of the Fukushima Reactors. Physical Review Letters, 2012, 109, 152501.	7.8	63
15	A New Measurement of the Temperature–density Relation of the IGM from Voigt Profile Fitting. Astrophysical Journal, 2018, 865, 42.	4.5	62
16	Imaging Fukushima Daiichi reactors with muons. AIP Advances, 2013, 3, .	1.3	59
17	Performance Analysis, Design Considerations, and Applications of Extreme-Scale In Situ Infrastructures. , 2016, , .		51
18	HACC. Communications of the ACM, 2016, 60, 97-104.	4.5	51

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19	PARTICLE MESH SIMULATIONS OF THE Lyα FOREST AND THE SIGNATURE OF BARYON ACOUSTIC OSCILLATIONS IN THE INTERGALACTIC MEDIUM. Astrophysical Journal, 2010, 713, 383-393.	4.5	46
20	Capturing Halos at High Redshifts. Astrophysical Journal, 2006, 642, L85-L88.	4.5	42
21	A New Method to Measure the Post-reionization Ionizing Background from the Joint Distribution of Lyα and Lyβ Forest Transmission ^{â^—} . Astrophysical Journal, 2018, 855, 106.	4.5	42
22	Imaging a nuclear reactor using cosmic ray muons. Journal of Applied Physics, 2013, 113, .	2.5	39
23	Measurement of the small-scale structure of the intergalactic medium using close quasar pairs. Science, 2017, 356, 418-422.	12.6	39
24	BD-CATS. , 2015, , .		38
25	Hybrid petacomputing meets cosmology: The Roadrunner Universe project. Journal of Physics: Conference Series, 2009, 180, 012019.	0.4	33
26	Detection of zÂâ^¼Â2.3 Cosmic Voids from 3D Lyα Forest Tomography in the COSMOS Field. Astrophysical Journal, 2018, 861, 60.	4.5	31
27	The power spectrum of the Lyman-α Forest at z < 0.5. Monthly Notices of the Royal Astronomical Society, 2019, 486, 769-782.	4.4	30
28	Self-supervised Representation Learning for Astronomical Images. Astrophysical Journal Letters, 2021, 911, L33.	8.3	29
29	The Universe at extreme scale: Multi-petaflop sky simulation on the BC/Q. , 2012, , .		28
30	Obtaining material identification with cosmic ray radiography. AIP Advances, 2012, 2, .	1.3	27
31	MODELING THE Lyα FOREST IN COLLISIONLESS SIMULATIONS. Astrophysical Journal, 2016, 827, 97.	4.5	27
32	In situ and in-transit analysis of cosmological simulations. Computational Astrophysics and Cosmology, 2016, 3, 4.	22.7	24
33	Modeling the He ii Transverse Proximity Effect: Constraints on Quasar Lifetime and Obscuration. Astrophysical Journal, 2018, 861, 122.	4.5	23
34	The Accelerated Universe. Computing in Science and Engineering, 2010, 12, 17-25.	1.2	21
35	A Fundamental Test for Galaxy Formation Models: Matching the Lyman-α Absorption Profiles of Galactic Halos Over Three Decades in Distance. Astrophysical Journal, 2018, 859, 125.	4.5	20
36	GALAXY CLUSTERS AS A PROBE OF EARLY DARK ENERGY. Astrophysical Journal, 2011, 727, 87.	4.5	18

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37	DESCQA: An Automated Validation Framework for Synthetic Sky Catalogs. Astrophysical Journal, Supplement Series, 2018, 234, 36.	7.7	18
38	Simulating intergalactic gas for DESI-like small scale Lymanα forest observations. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 059.	5.4	18
39	Mapping Quasar Light Echoes in 3D with Lyα Forest Tomography. Astrophysical Journal, 2019, 882, 165.	4.5	17
40	Master of Puppets. , 2016, , .		13
41	Mining for Strong Gravitational Lenses with Self-supervised Learning. Astrophysical Journal, 2022, 932, 107.	4.5	13
42	Measuring Alignments between Galaxies and the Cosmic Web at zÂâ^1⁄4Â2–3 Using IGM Tomography. Astrophysical Journal, 2017, 837, 31.	4.5	12
43	Cosmic Inference: Constraining Parameters with Observations and a Highly Limited Number of Simulations. Astrophysical Journal, 2021, 906, 74.	4.5	10
44	Tuning Object-Centric Data Management Systems for Large Scale Scientific Applications. , 2019, , .		6
45	Nyx: A Massively Parallel AMR Code for Computational Cosmology. Journal of Open Source Software, 2021, 6, 3068.	4.6	6
46	Improving IGM temperature constraints using wavelet analysis on high-redshift quasars. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5493-5513.	4.4	5
47	Fast, High-fidelity Lyα Forests with Convolutional Neural Networks. Astrophysical Journal, 2022, 929, 160.	4.5	5
48	Programmable In Situ System for Iterative Workflows. Lecture Notes in Computer Science, 2018, , 122-131.	1.3	2
49	Statistical Detection of the He ii Transverse Proximity Effect: Evidence for Sustained Quasar Activity for >25 Million Years. Frontiers in Astronomy and Space Sciences, 2017, 4, .	2.8	0