

Alex saro

List of Publications by Year in descending order

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105
papers

7,054
citations

57758

44
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106
docs citations

106
times ranked

5221
citing authors

#	ARTICLE	IF	CITATIONS
1	GALAXY CLUSTERS DISCOVERED VIA THE SUNYAEV-ZEL'DOVICH EFFECT IN THE 2500-SQUARE-DEGREE SPT-SZ SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2015, 216, 27.	7.7	464
2	The Dark Energy Survey: Data Release 1. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 18.	7.7	455
3	NEOWISE OBSERVATIONS OF NEAR-EARTH OBJECTS: PRELIMINARY RESULTS. <i>Astrophysical Journal</i> , 2011, 743, 156.	4.5	316
4	Cosmological simulations of black hole growth: AGN luminosities and downsizing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 2304-2324.	4.4	293
5	GALAXY CLUSTERS DISCOVERED VIA THE SUNYAEV-ZEL'â™DOVICH EFFECT IN THE FIRST 720 SQUARE DEGREES OF THE SOUTH POLE TELESCOPE SURVEY. <i>Astrophysical Journal</i> , 2013, 763, 127.	4.5	240
6	THE REDMAPPER GALAXY CLUSTER CATALOG FROM DES SCIENCE VERIFICATION DATA. <i>Astrophysical Journal, Supplement Series</i> , 2016, 224, 1.	7.7	233
7	A SUNYAEV-ZEL'DOVICH-SELECTED SAMPLE OF THE MOST MASSIVE GALAXY CLUSTERS IN THE 2500 deg² SOUTH POLE TELESCOPE SURVEY. <i>Astrophysical Journal</i> , 2011, 738, 139.	4.5	213
8	Simulating the effect of active galactic nuclei feedback on the metal enrichment of galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 1670-1690.	4.4	211
9	Cluster Cosmology Constraints from the 2500 deg² SPT-SZ Survey: Inclusion of Weak Gravitational Lensing Data from Magellan and the Hubble Space Telescope. <i>Astrophysical Journal</i> , 2019, 878, 55.	4.5	211
10	COSMOLOGICAL CONSTRAINTS FROM SUNYAEV'â€ZEL'DOVICH-SELECTED CLUSTERS WITH X-RAY OBSERVATIONS IN THE FIRST 178'âdeg² OF THE SOUTH POLE TELESCOPE SURVEY. <i>Astrophysical Journal</i> , 2013, 763, 147.	4.5	206
11	COSMOLOGICAL CONSTRAINTS FROM GALAXY CLUSTERS IN THE 2500 SQUARE-DEGREE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2016, 832, 95.	4.5	179
12	Halo mass function: baryon impact, fitting formulae, and implications for cluster cosmology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 2361-2373.	4.4	170
13	A massive, cooling-flow-induced starburst in the core of a luminous cluster of galaxies. <i>Nature</i> , 2012, 488, 349-352.	27.8	154
14	THE GROWTH OF COOL CORES AND EVOLUTION OF COOLING PROPERTIES IN A SAMPLE OF 83 GALAXY CLUSTERS AT 0.3 <i>z</i> <i>1.2</i> SELECTED FROM THE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2013, 774, 23.	4.5	144
15	Dark Energy Survey Year 1 Results: Cosmological constraints from cluster abundances and weak lensing. <i>Physical Review D</i> , 2020, 102, .	4.7	140
16	MASS CALIBRATION AND COSMOLOGICAL ANALYSIS OF THE SPT-SZ GALAXY CLUSTER SAMPLE USING VELOCITY DISPERSION σ_v AND X-RAY Y_X MEASUREMENTS. <i>Astrophysical Journal</i> , 2015, 799, 214.	4.5	120
17	X-RAY CAVITIES IN A SAMPLE OF 83 SPT-SELECTED CLUSTERS OF GALAXIES: TRACING THE EVOLUTION OF AGN FEEDBACK IN CLUSTERS OF GALAXIES OUT TO $z = 1.2$. <i>Astrophysical Journal</i> , 2015, 805, 35.	4.5	115
18	TOWARD UNBIASED GALAXY CLUSTER MASSES FROM LINE-OF-SIGHT VELOCITY DISPERSIONS. <i>Astrophysical Journal</i> , 2013, 772, 47.	4.5	111

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19	DISCOVERY AND COSMOLOGICAL IMPLICATIONS OF SPT-CL J2106-5844, THE MOST MASSIVE KNOWN CLUSTER AT $z \approx 1$. <i>Astrophysical Journal</i> , 2011, 731, 86.	4.5	104
20	OPTICAL SPECTROSCOPY AND VELOCITY DISPERSIONS OF GALAXY CLUSTERS FROM THE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2014, 792, 45.	4.5	103
21	The SPTpol Extended Cluster Survey. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 25.	7.7	101
22	THE REDSHIFT EVOLUTION OF THE MEAN TEMPERATURE, PRESSURE, AND ENTROPY PROFILES IN 80 SPT-SELECTED GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2014, 794, 67.	4.5	90
23	REDSHIFTS, SAMPLE PURITY, AND BCG POSITIONS FOR THE GALAXY CLUSTER CATALOG FROM THE FIRST 720 SQUARE DEGREES OF THE SOUTH POLE TELESCOPE SURVEY. <i>Astrophysical Journal</i> , 2012, 761, 22.	4.5	89
24	Detection of the kinematic Sunyaev-Zel'dovich effect with DES Year 1 and SPT. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 3172-3193.	4.4	88
25	Constraints on the richness-mass relation and the optical-SZE positional offset distribution for SZE-selected clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 2305-2319.	4.4	87
26	Weak-lensing mass calibration of redMaPPer galaxy clusters in Dark Energy Survey Science Verification data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 4899-4920.	4.4	87
27	Cluster mass calibration at high redshift: HST weak lensing analysis of 13 distant galaxy clusters from the South Pole Telescope Sunyaev-Zel'dovich Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 2635-2678.	4.4	77
28	X-Ray Properties of SPT-selected Galaxy Clusters at $0.2 < z < 1.5$ Observed with XMM-Newton. <i>Astrophysical Journal</i> , 2019, 871, 50.	4.5	74
29	STAR-FORMING BRIGHTEST CLUSTER GALAXIES AT $0.25 < z < 1.25$: A TRANSITIONING FUEL SUPPLY. <i>Astrophysical Journal</i> , 2016, 817, 86.	4.5	70
30	Baryon content in a sample of 91 galaxy clusters selected by the South Pole Telescope at $0.2 < z < 1.25$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 3072-3099.	4.4	70
31	A MEASUREMENT OF GRAVITATIONAL LENSING OF THE COSMIC MICROWAVE BACKGROUND BY GALAXY CLUSTERS USING DATA FROM THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2015, 806, 247.	4.5	66
32	Galaxy Cluster Mass Reconstruction Project II. Quantifying scatter and bias using contrasting mock catalogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 1897-1920.	4.4	65
33	THE EVOLUTION OF THE INTRACLUSTER MEDIUM METALLICITY IN SUNYAEV ZEL'DOVICH-SELECTED GALAXY CLUSTERS AT $0 < z < 1.5$. <i>Astrophysical Journal</i> , 2016, 826, 124.	4.5	63
34	nFTy galaxy cluster simulations I. Dark matter and non-radiative models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 4063-4080.	4.4	63
35	Lyman alpha emitter evolution in the reionization epoch. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 2000-2011.	4.4	62
36	Properties of the galaxy population in hydrodynamical simulations of clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 373, 397-410.	4.4	60

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37	Sunyaev-Zel'dovich effect and X-ray scaling relations from weak lensing mass calibration of 32 South Pole Telescope selected galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 2871-2906.	4.4	60
38	Galaxy cluster mass reconstruction project – I. Methods and first results on galaxy-based techniques. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 1513-1536.	4.4	58
39	SPT-CL J0205-5829: A $z = 1.32$ EVOLVED MASSIVE GALAXY CLUSTER IN THE SOUTH POLE TELESCOPE SUNYAEV-ZEL'DOVICH EFFECT SURVEY. <i>Astrophysical Journal</i> , 2013, 763, 93.	4.5	54
40	Baryon content of massive galaxy clusters at $0.57 < z < 1.33$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 258-275.	4.4	54
41	The cool side of Lyman alpha emitters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 1449-1457.	4.4	51
42	Constraints on the CMB temperature evolution using multiband measurements of the Sunyaev-Zel'dovich effect with the South Pole Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 2610-2615.	4.4	51
43	Searching for large-scale structures around high-redshift radio galaxies with Herschel. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 1882-1893.	4.4	45
44	nIFTy galaxy cluster simulations – II. Radiative models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 2973-2991.	4.4	45
45	Galaxy populations in the most distant SPT-SZ clusters. <i>Astronomy and Astrophysics</i> , 2019, 622, A117.	5.1	45
46	SZE observables, pressure profiles and centre offsets in Magneticum simulation galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 3069-3087.	4.4	43
47	WEAK-LENSING MASS MEASUREMENTS OF FIVE GALAXY CLUSTERS IN THE SOUTH POLE TELESCOPE SURVEY USING MAGELLAN/MEGACAM. <i>Astrophysical Journal</i> , 2012, 758, 68.	4.5	42
48	SPT-CL J2040-4451: AN SZ-SELECTED GALAXY CLUSTER AT $z = 1.478$ WITH SIGNIFICANT ONGOING STAR FORMATION. <i>Astrophysical Journal</i> , 2014, 794, 12.	4.5	42
49	Anatomy of a Cooling Flow: The Feedback Response to Pure Cooling in the Core of the Phoenix Cluster. <i>Astrophysical Journal</i> , 2019, 885, 63.	4.5	42
50	On the impact of baryons on the halo mass function, bias, and cluster cosmology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 2316-2335.	4.4	42
51	Galaxy Clusters Selected via the Sunyaev-Zel'dovich Effect in the SPTpol 100-square-degree Survey. <i>Astronomical Journal</i> , 2020, 159, 110.	4.7	41
52	nIFTy galaxy cluster simulations – IV. Quantifying the influence of baryons on halo properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 4052-4073.	4.4	39
53	SPT-GMOS: A GEMINI/GMOS-SOUTH SPECTROSCOPIC SURVEY OF GALAXY CLUSTERS IN THE SPT-SZ SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 3.	7.7	36
54	The Cluster HERitage project with XMM-Newton: Mass Assembly and Thermodynamics at the Endpoint of structure formation. <i>Astronomy and Astrophysics</i> , 2021, 650, A104.	5.1	36

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55	Cosmological constraints from DES Y1 cluster abundances and SPT multiwavelength data. <i>Physical Review D</i> , 2021, 103, .	4.7	34
56	Quantifying tensions between CMB and distance data sets in models with free curvature or lensing amplitude. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 1416-1430.	4.4	32
57	nIFTY galaxy cluster simulations â€“ III. The similarity and diversity of galaxies and subhaloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1096-1116.	4.4	32
58	Galaxy Populations in Massive Galaxy Clusters to $z = 1.1$: Color Distribution, Concentration, Halo Occupation Number and Red Sequence Fraction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 1416-1430.	4.4	30
59	HIGH-REDSHIFT COOL-CORE GALAXY CLUSTERS DETECTED VIA THE SUNYAEV-ZEL'DOVICH EFFECT IN THE SOUTH POLE TELESCOPE SURVEY. <i>Astrophysical Journal</i> , 2012, 761, 183.	4.5	29
60	SOUTH POLE TELESCOPE DETECTIONS OF THE PREVIOUSLY UNCONFIRMED PLANCK EARLY SUNYAEV-ZEL'DOVICH CLUSTERS IN THE SOUTHERN HEMISPHERE. <i>Astrophysical Journal Letters</i> , 2011, 735, L36.	8.3	28
61	Galaxy Cluster Mass Reconstruction Project â€“ III. The impact of dynamical substructure on cluster mass estimates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 853-866.	4.4	28
62	Galaxy populations in the 26 most massive galaxy clusters in the South Pole Telescope SPT-SZ survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 830-843.	4.4	26
63	Detection of enhancement in number densities of background galaxies due to magnification by massive galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 3050-3065.	4.4	26
64	Galaxy Cluster Mass Reconstruction Project â€“ IV. Understanding the effects of imperfect membership on cluster mass estimation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 324-340.	4.4	26
65	Galaxy kinematics and mass calibration in massive SZE-selected galaxy clusters to $z = 1.3$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 1043-1061.	4.4	25
66	Stellar mass to halo mass scaling relation for X-ray-selected low-mass galaxy clusters and groups out to redshift $z = 1$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 379-393.	4.4	24
67	A joint SZâ€“X-rayâ€“optical analysis of the dynamical state of 288 massive galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 705-725.	4.4	24
68	Simulating the formation of a protocluster at $z = 1/4$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 392, 795-800.	4.4	23
69	Evolution of the metal content of the intracluster medium with hydrodynamical simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 386, 1265-1273.	4.4	21
70	OBSERVATION AND CONFIRMATION OF SIX STRONG-LENSING SYSTEMS IN THE DARK ENERGY SURVEY SCIENCE VERIFICATION DATA*. <i>Astrophysical Journal</i> , 2016, 827, 51.	4.5	21
71	Weak-lensing analysis of SPT-selected galaxy clusters using Dark Energy Survey Science Verification data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 69-87.	4.4	21
72	Mass calibration of the CODEX cluster sample using SPIDERS spectroscopy â€“ I. The richnessâ€“mass relation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 1594-1607.	4.4	20

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73	Analysis of Sunyaev-Zel'dovich effect mass observable relations using South Pole Telescope observations of an X-ray selected sample of low-mass galaxy clusters and groups. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 2085-2099.	4.4	18
74	Spectroscopic Confirmation of Five Galaxy Clusters at $z > 1.25$ in the 2500 deg ² SPT-SZ Survey. <i>Astrophysical Journal</i> , 2019, 870, 7.	4.5	18
75	SPIDERS: an overview of the largest catalogue of spectroscopically confirmed x-ray galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 5763-5777.	4.4	18
76	Cosmology dependence of halo masses and concentrations in hydrodynamic simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 5056-5071.	4.4	18
77	Velocity Segregation and Systematic Biases in Velocity Dispersion Estimates with the SPT-GMOS Spectroscopic Survey. <i>Astrophysical Journal</i> , 2017, 837, 88.	4.5	17
78	Optical-SZE scaling relations for DES optically selected clusters within the SPT-SZ Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 3347-3360.	4.4	17
79	nFTy galaxy cluster simulations V. Investigation of the cluster infall region. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 2027-2038.	4.4	16
80	Cosmology with the pairwise kinematic SZ effect: calibration and validation using hydrodynamical simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 5320-5335.	4.4	16
81	SPIDERS: overview of the X-ray galaxy cluster follow-up and the final spectroscopic data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 3976-3992.	4.4	16
82	The 700 ks Chandra Spiderweb Field. <i>Astronomy and Astrophysics</i> , 2022, 662, A54.	5.1	16
83	Shocks in the stacked Sunyaev-Zel'dovich profiles of clusters II: Measurements from SPT-SZ + Planck Compton-y map. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 1645-1663.	4.4	15
84	Impact of Weak Lensing Mass Calibration on eROSITA Galaxy Cluster Cosmological Studies a Forecast. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	14
85	Mass calibration of distant SPT galaxy clusters through expanded weak-lensing follow-up observations with HST, VLT, & Gemini-South. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 3923-3943.	4.4	14
86	Cosmology dependence of galaxy cluster scaling relations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 3728-3740.	4.4	13
87	Validation of selection function, sample contamination and mass calibration in galaxy cluster samples. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 771-798.	4.4	12
88	Exploring the contamination of the DES-Y1 cluster sample with SPT-SZ selected clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1253-1272.	4.4	12
89	The effect of gas dynamics on semi-analytic modelling of cluster galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 391, 565-576.	4.4	11
90	Weighing cosmic structures with clusters of galaxies and the intergalactic medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 857-870.	4.4	10

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91	High Frequency Cluster Radio Galaxies: Luminosity Functions and Implications for SZE Selected Cluster Samples. Monthly Notices of the Royal Astronomical Society, 0, , stx095.	4.4	9
92	Mass calibration of the CODEX cluster sample using SPIDERS spectroscopy – II. The X-ray luminosity–mass relation. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2736-2746.	4.4	9
93	Constraints on stellar rotation from the evolution of Sr and Ba in the Galactic halo. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2495-2507.	4.4	9
94	Photometric and clustering properties of hydrodynamical galaxies in a cosmological volume: results at $z=0$. Monthly Notices of the Royal Astronomical Society, 2010, 407, 1376-1386.	4.4	8
95	Gravitational redshifting of galaxies in the SPIDERS cluster catalogue. Monthly Notices of the Royal Astronomical Society, 2021, 503, 669-678.	4.4	8
96	Gas cooling in semi-analytic models and smoothed particle hydrodynamics simulations: are results consistent?. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	7
97	MEASUREMENT OF GALAXY CLUSTER INTEGRATED COMPTONIZATION AND MASS SCALING RELATIONS WITH THE SOUTH POLE TELESCOPE. Astrophysical Journal, 2015, 799, 137.	4.5	7
98	The Evolution of AGN Activity in Brightest Cluster Galaxies. Astronomical Journal, 2022, 163, 146.	4.7	7
99	Constraining radio mode feedback in galaxy clusters with the cluster radio AGNs properties to $z < 1$. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1705-1723.	4.4	6
100	Velocity dispersion of brightest cluster galaxies in cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5780-5795.	4.4	5
101	On the phase-space structure of galaxy clusters from cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3462-3480.	4.4	5
102	Improving Cosmological Constraints from Galaxy Cluster Number Counts with CMB-cluster-lensing Data: Results from the SPT-SZ Survey and Forecasts for the Future. Astrophysical Journal, 2022, 931, 139.	4.5	5
103	Machine learning to identify ICL and BCG in simulated galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3082-3096.	4.4	4
104	Velocity dispersions of clusters in the Dark Energy Survey Y3 redMaPPer catalogue. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4696-4717.	4.4	3
105	Optical followup of galaxy clusters detected by the South Pole Telescope. Journal of Physics: Conference Series, 2012, 375, 032011.	0.4	0