

Sebastian Bocquet

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4741664/publications.pdf>

Version: 2024-02-01

64
papers

3,969
citations

147801

31
h-index

133252

59
g-index

64
all docs

64
docs citations

64
times ranked

3900
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	Cluster Cosmology Constraints from the 2500 deg ² 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
4	COSMOLOGICAL CONSTRAINTS FROM GALAXY CLUSTERS IN THE 2500 SQUARE-DEGREE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2016, 832, 95.	4.5	179
5	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
6	THE GROWTH OF COOL CORES AND EVOLUTION OF COOLING PROPERTIES IN A SAMPLE OF 83 GALAXY CLUSTERS AT 0.3 z <math>< i>z</i></math> 1.2 SELECTED FROM THE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2013, 774, 23.	4.5	144
7	Dark Energy Survey Year 1 Results: Cosmological constraints from cluster abundances and weak lensing. <i>Physical Review D</i> , 2020, 102, .	4.7	140
8	MASS CALIBRATION AND COSMOLOGICAL ANALYSIS OF THE SPT-SZ GALAXY CLUSTER SAMPLE USING VELOCITY DISPERSION σ_v AND X-RAY σ_X MEASUREMENTS. <i>Astrophysical Journal</i> , 2015, 799, 214.	4.5	120
9	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
10	OPTICAL SPECTROSCOPY AND VELOCITY DISPERSIONS OF GALAXY CLUSTERS FROM THE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2014, 792, 45.	4.5	103
11	The SPTpol Extended Cluster Survey. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 25.	7.7	101
12	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
13	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
14	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	4.5	79
15	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
16	X-Ray Properties of SPT-selected Galaxy Clusters at 0.2 z <math>< i>z</i></math> 1.5 Observed with XMM-Newton. <i>Astrophysical Journal</i> , 2019, 871, 50.	4.5	74
17	Baryon content in a sample of 91 galaxy clusters selected by the South Pole Telescope at 0.2 z <math>< i>z</i></math> 1.25. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 3072-3099.	4.4	70
18	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

#	ARTICLE	IF	CITATIONS
19	pygctc: beautiful parameter covariance plots (aka. Giant Triangle Confusograms). Journal of Open Source Software, 2016, 1, 46.	4.6	65
20	Sunyaev-Zel'dovich effect and X-ray scaling relations from weak lensing mass calibration of 32 South Pole Telescope selected galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2019, 483, 2871-2906.	4.4	60
21	The Mira-Titan Universe. III. Emulation of the Halo Mass Function. Astrophysical Journal, 2020, 901, 5.	4.5	58
22	Dark Energy Survey Year 1 Results: Cosmological Constraints from Cluster Abundances, Weak Lensing, and Galaxy Correlations. Physical Review Letters, 2021, 126, 141301.	7.8	55
23	Baryon content of massive galaxy clusters at $0.57 < z < 1.33$. Monthly Notices of the Royal Astronomical Society, 2016, 455, 258-275.	4.4	54
24	Measurement of the splashback feature around SZ-selected Galaxy clusters with DES, SPT, and ACT. Monthly Notices of the Royal Astronomical Society, 2019, 487, 2900-2918.	4.4	52
25	Constraints on the CMB temperature evolution using multiband measurements of the Sunyaev-Zel'dovich effect with the South Pole Telescope. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2610-2615.	4.4	51
26	Galaxy populations in the most distant SPT-SZ clusters. Astronomy and Astrophysics, 2019, 622, A117.	5.1	45
27	SPT-CL J2040+4451: AN SZ-SELECTED GALAXY CLUSTER AT $z = 1.478$ WITH SIGNIFICANT ONGOING STAR FORMATION. Astrophysical Journal, 2014, 794, 12.	4.5	42
28	Galaxy Clusters Selected via the Sunyaev-Zel'dovich Effect in the SPTpol 100-square-degree Survey. Astronomical Journal, 2020, 159, 110.	4.7	41
29	SPT-GMOS: A GEMINI/GMOS-SOUTH SPECTROSCOPIC SURVEY OF GALAXY CLUSTERS IN THE SPT-SZ SURVEY. Astrophysical Journal, Supplement Series, 2016, 227, 3.	7.7	36
30	Testing for X-Ray SZ Differences and Redshift Evolution in the X-Ray Morphology of Galaxy Clusters. Astrophysical Journal, 2017, 841, 5.	4.5	34
31	Cosmological constraints from DES Y1 cluster abundances and SPT multiwavelength data. Physical Review D, 2021, 103, .	4.7	34
32	The eROSITA Final Equatorial-Depth Survey (eFEDS). Astronomy and Astrophysics, 2022, 661, A11.	5.1	31
33	Galaxy Populations in Massive Galaxy Clusters to $z = 1.1$: Color Distribution, Concentration, Halo Occupation Number and Red Sequence Fraction. Monthly Notices of the Royal Astronomical Society, 0, , stx175.	4.4	30
34	HIGH-REDSHIFT COOL-CORE GALAXY CLUSTERS DETECTED VIA THE SUNYAEV-ZEL'DOVICH EFFECT IN THE SOUTH POLE TELESCOPE SURVEY. Astrophysical Journal, 2012, 761, 183.	4.5	29
35	Year two instrument status of the SPT-3G cosmic microwave background receiver. , 2018, , .		29
36	Dark energy survey year 3 results: cosmological constraints from the analysis of cosmic shear in harmonic space. Monthly Notices of the Royal Astronomical Society, 2022, 515, 1942-1972.	4.4	27

#	ARTICLE	IF	CITATIONS
37	Galaxy populations in the 26 most massive galaxy clusters in the South Pole Telescope SPT-SZ survey. Monthly Notices of the Royal Astronomical Society, 2016, 462, 830-843.	4.4	26
38	Detection of enhancement in number densities of background galaxies due to magnification by massive galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3050-3065.	4.4	26
39	Galaxy kinematics and mass calibration in massive SZE-selected galaxy clusters to $z < 1.3$. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1043-1061.	4.4	25
40	Stellar mass to halo mass scaling relation for X-ray-selected low-mass galaxy clusters and groups out to redshift $z < 1$. Monthly Notices of the Royal Astronomical Society, 2016, 458, 379-393.	4.4	24
41	Optical variability of quasars with 20-yr photometric light curves. Monthly Notices of the Royal Astronomical Society, 2022, 514, 164-184.	4.4	24
42	CMB/kSZ and Compton-y Maps from 2500 deg^2 of SPT-SZ and Planck Survey Data. Astrophysical Journal, Supplement Series, 2022, 258, 36.	7.7	22
43	Weak-lensing analysis of SPT-selected galaxy clusters using Dark Energy Survey Science Verification data. Monthly Notices of the Royal Astronomical Society, 2019, 485, 69-87.	4.4	21
44	The mass and galaxy distribution around SZ-selected clusters. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5758-5779.	4.4	20
45	Probing Galaxy Evolution in Massive Clusters Using ACT and DES: Splashback as a Cosmic Clock. Astrophysical Journal, 2021, 923, 37.	4.5	20
46	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. Monthly Notices of the Royal Astronomical Society, 2015, 448, 2085-2099.	4.4	18
47	Spectroscopic Confirmation of Five Galaxy Clusters at $z > 1.25$ in the 2500 deg^2 SPT-SZ Survey. Astrophysical Journal, 2019, 870, 7.	4.5	18
48	Evolution of the Thermodynamic Properties of Clusters of Galaxies out to Redshift of 1.8. Astrophysical Journal, 2021, 910, 14.	4.5	18
49	Velocity Segregation and Systematic Biases in Velocity Dispersion Estimates with the SPT-GMOS Spectroscopic Survey. Astrophysical Journal, 2017, 837, 88.	4.5	17
50	Optical SZE scaling relations for DES optically selected clusters within the SPT-SZ Survey. Monthly Notices of the Royal Astronomical Society, 2017, 468, 3347-3360.	4.4	17
51	Milky Way Satellite Census. IV. Constraints on Decaying Dark Matter from Observations of Milky Way Satellite Galaxies. Astrophysical Journal, 2022, 932, 128.	4.5	16
52	Calibration of bias and scatter involved in cluster mass measurements using optical weak gravitational lensing. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5671-5689.	4.4	15
53	Shocks in the stacked Sunyaev-Zel'dovich profiles of clusters II: Measurements from SPT-SZ + Planck Compton-y map. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1645-1663.	4.4	15
54	Impact of Weak Lensing Mass Calibration on eROSITA Galaxy Cluster Cosmological Studies – a Forecast. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	14

#	ARTICLE	IF	CITATIONS
55	Mass calibration of distant SPT galaxy clusters through expanded weak-lensing follow-up observations with <i>HST</i> , VLT, & Gemini-South. Monthly Notices of the Royal Astronomical Society, 2021, 505, 3923-3943.	4.4	14
56	Detection of CMB-Cluster Lensing using Polarization Data from SPTpol. Physical Review Letters, 2019, 123, 181301.	7.8	12
57	Validation of selection function, sample contamination and mass calibration in galaxy cluster samples. Monthly Notices of the Royal Astronomical Society, 2020, 498, 771-798.	4.4	12
58	Exploring the contamination of the DES-Y1 cluster sample with SPT-SZ selected clusters. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1253-1272.	4.4	12
59	Dark energy survey operations: years 4 and 5. , 2018, , .		11
60	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
61	The dark energy survey 5-yr photometrically identified type Ia supernovae. Monthly Notices of the Royal Astronomical Society, 2022, 514, 5159-5177.	4.4	8
62	MEASUREMENT OF GALAXY CLUSTER INTEGRATED COMPTONIZATION AND MASS SCALING RELATIONS WITH THE SOUTH POLE TELESCOPE. Astrophysical Journal, 2015, 799, 137.	4.5	7
63	DeepZipper: A Novel Deep-learning Architecture for Lensed Supernovae Identification. Astrophysical Journal, 2022, 927, 109.	4.5	5
64	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