

# Sebastian Bocquet

## List of Publications by Year in descending order

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64  
papers

3,969  
citations

147801

31  
h-index

133252

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64  
all docs

64  
docs citations

64  
times ranked

3900  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | The eROSITA Final Equatorial-Depth Survey (eFEDS). <i>Astronomy and Astrophysics</i> , 2022, 661, A11.   | 5.1 | 31        |
| 2  | CMB/ksZ and Compton- $\gamma$ Maps from 2500 deg <sup>2</sup> of SPT-SZ and Planck Survey Data. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 36.   | 7.7 | 22        |
| 3  | CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.   | 4.5 | 79        |
| 4  | DeepZipper: A Novel Deep-learning Architecture for Lensed Supernovae Identification. <i>Astrophysical Journal</i> , 2022, 927, 109.  | 4.5 | 5         |
| 5  | Optical variability of quasars with 20-yr photometric light curves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 164-184.   | 4.4 | 24        |
| 6  | Shocks in the stacked Sunyaev-Zel'dovich profiles of clusters II: Measurements from SPT-SZ + Planck Compton- $\gamma$ map. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 1645-1663.          | 4.4 | 15        |
| 7  | Improving Cosmological Constraints from Galaxy Cluster Number Counts with CMB-cluster-lensing Data: Results from the SPT-SZ Survey and Forecasts for the Future. <i>Astrophysical Journal</i> , 2022, 931, 139.      | 4.5 | 5         |
| 8  | The dark energy survey 5-yr photometrically identified type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 5159-5177.  | 4.4 | 8         |
| 9  | Milky Way Satellite Census. IV. Constraints on Decaying Dark Matter from Observations of Milky Way Satellite Galaxies. <i>Astrophysical Journal</i> , 2022, 932, 128.  | 4.5 | 16        |
| 10 | Dark energy survey year 3 results: cosmological constraints from the analysis of cosmic shear in harmonic space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 1942-1972.                    | 4.4 | 27        |
| 11 | Cosmological constraints from DES Y1 cluster abundances and SPT multiwavelength data. <i>Physical Review D</i> , 2021, 103, .  | 4.7 | 34        |
| 12 | 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        |
| 13 | Evolution of the Thermodynamic Properties of Clusters of Galaxies out to Redshift of 1.8. <i>Astrophysical Journal</i> , 2021, 910, 14.  | 4.5 | 18        |
| 14 | Dark Energy Survey Year 1 Results: Cosmological Constraints from Cluster Abundances, Weak Lensing, and Galaxy Correlations. <i>Physical Review Letters</i> , 2021, 126, 141301.                                      | 7.8 | 55        |
| 15 | 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        |
| 16 | Calibration of bias and scatter involved in cluster mass measurements using optical weak gravitational lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5671-5689.                     | 4.4 | 15        |
| 17 | The mass and galaxy distribution around SZ-selected clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5758-5779.   | 4.4 | 20        |
| 18 | Probing Galaxy Evolution in Massive Clusters Using ACT and DES: Splashback as a Cosmic Clock. <i>Astrophysical Journal</i> , 2021, 923, 37.  | 4.5 | 20        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | Dark Energy Survey Year 1 Results: Cosmological constraints from cluster abundances and weak lensing. <i>Physical Review D</i> , 2020, 102, .  | 4.7 | 140       |
| 22 | The Mira-Titan Universe. III. Emulation of the Halo Mass Function. <i>Astrophysical Journal</i> , 2020, 901, 5.  | 4.5 | 58        |
| 23 | The SPTpol Extended Cluster Survey. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 25.   | 7.7 | 101       |
| 24 | Detection of CMB-Cluster Lensing using Polarization Data from SPTpol. <i>Physical Review Letters</i> , 2019, 123, 181301.  | 7.8 | 12        |
| 25 | Spectroscopic Confirmation of Five Galaxy Clusters at $z \gtrsim 1.25$ in the 2500 deg <sup>2</sup> SPT-SZ Survey. <i>Astrophysical Journal</i> , 2019, 870, 7.  | 4.5 | 18        |
| 26 | 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        |
| 27 | Cluster Cosmology Constraints from the 2500 deg <sup>2</sup> 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       |
| 28 | Measurement of the splashback feature around SZ-selected Galaxy clusters with DES, SPT, and ACT. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 2900-2918.  | 4.4 | 52        |
| 29 | Galaxy populations in the most distant SPT-SZ clusters. <i>Astronomy and Astrophysics</i> , 2019, 622, A117.   | 5.1 | 45        |
| 30 | 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        |
| 31 | 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        |
| 32 | Galaxy kinematics and mass calibration in massive SZE-selected galaxy clusters to $z \lesssim 1.3$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 1043-1061.  | 4.4 | 25        |
| 33 | The Dark Energy Survey: Data Release 1. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 18.   | 7.7 | 455       |
| 34 | 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        |
| 35 | 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        |
| 36 | Dark energy survey operations: years 4 and 5. , 2018, , .  |     | 11        |

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|----|--|-----|-----------|
| 37 | Year two instrument status of the SPT-3G cosmic microwave background receiver. , 2018, , .   |     | 29        |
| 38 | Testing for X-Rayâ€“SZ Differences and Redshift Evolution in the X-Ray Morphology of Galaxy Clusters. <i>Astrophysical Journal</i> , 2017, 841, 5.   | 4.5 | 34        |
| 39 | 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        |
| 40 | Opticalâ€“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        |
| 41 | COSMOLOGICAL CONSTRAINTS FROM GALAXY CLUSTERS IN THE 2500 SQUARE-DEGREE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2016, 832, 95.   | 4.5 | 179       |
| 42 | 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        |
| 43 | 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        |
| 44 | Baryon content of massive galaxy clusters at $0.57 <i>z</i> <i> \lesssim 1.33$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 258-275.  | 4.4 | 54        |
| 45 | Stellar mass to halo mass scaling relation for X-ray-selected low-mass galaxy clusters and groups out to redshift $z <i> \lesssim 1$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 379-393.  | 4.4 | 24        |
| 46 | 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        |
| 47 | 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       |
| 48 | pygtc: beautiful parameter covariance plots (aka. Giant Triangle Confusograms). <i>Journal of Open Source Software</i> , 2016, 1, 46.  | 4.6 | 65        |
| 49 | Analysis of Sunyaevâ€“Zel'dovich effect massâ€“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        |
| 50 | Constraints on the richnessâ€“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        |
| 51 | MEASUREMENT OF GALAXY CLUSTER INTEGRATED COMPTONIZATION AND MASS SCALING RELATIONS WITH THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2015, 799, 137.   | 4.5 | 7         |
| 52 | MASS CALIBRATION AND COSMOLOGICAL ANALYSIS OF THE SPT-SZ GALAXY CLUSTER SAMPLE USING VELOCITY DISPERSION $\sigma_v$ AND X-RAY $Y_X$ MEASUREMENTS. <i>Astrophysical Journal</i> , 2015, 799, 214.   | 4.5 | 120       |
| 53 | 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       |
| 54 | 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       |

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|----|--|-----|-----------|
| 55 | 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        |
| 56 | 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        |
| 57 | OPTICAL SPECTROSCOPY AND VELOCITY DISPERSIONS OF GALAXY CLUSTERS FROM THE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2014, 792, 45.   | 4.5 | 103       |
| 58 | 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        |
| 59 | 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        |
| 60 | THE GROWTH OF COOL CORES AND EVOLUTION OF COOLING PROPERTIES IN A SAMPLE OF 83 GALAXY CLUSTERS AT $0.3 < z < 1.2$ SELECTED FROM THE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2013, 774, 23.                           | 4.5 | 144       |
| 61 | 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        |
| 62 | High Frequency Cluster Radio Galaxies: Luminosity Functions and Implications for SZE Selected Cluster Samples. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stx095.                                     | 4.4 | 9         |
| 63 | 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> , 0, , stx175.  | 4.4 | 30        |
| 64 | 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        |