Cail Daley

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CosmoStat, Département d'Astrophysique
CEA Paris-Saclay, 91191 Gif-sur-Yvette, France

cail.daley@cea.fr
0000-0002-3760-2086

50 publications, 35 refereed · h-index 21 · ∼2,100 citations to refereed papers (NASA ADS, October 2026). Author position and author count follow each title.

FIRST AUTHOR

2026 "UNIONS-3500 Weak Lensing: II. B-mode validation for cosmic shear."
C. Daley et al. · 1st of 12 authors · *A&A*, in press · arXiv:2604.03227

2019 "The Mass of Stirring Bodies in the AU Mic Debris Disk Inferred from Resolved Vertical Structure."
C. Daley et al. · 1st of 12 authors · *ApJ* 875, 87 · arXiv:1904.00027

SUBSTANTIVE CONTRIBUTIONS

2026 "SPT-3G D1: Quadratic-Estimator CMB Lensing Reconstruction and Cosmology."
Y. Omori et al. · 6th of 95 authors · Preprint · arXiv:2608.31136

2026 "UNIONS-3500 Weak Lensing: I. A Galaxy Shape Catalogue in the Northern Sky."
F. Hervas-Peters et al. · 6th of 18 authors · Preprint · arXiv:2605.13549

2026 "UNIONS-3500 Weak Lensing: III. 2D Cosmological Constraints in Configuration Space."
L. W. K. Goh et al. · 3rd of 16 authors · *MNRAS* 552, stag1774 · arXiv:2605.13547

2026 "UNIONS-3500 Weak Lensing: IV. 2D cosmological constraints in harmonic space."
S. Guerrini et al. · 4th of 17 authors · Preprint · arXiv:2605.13543

2026 "SPT-3G D1: Maps of the millimeter-wave sky from 2019 and 2020 observations of the SPT-3G Main field."
W. Quan et al. · 3rd of 95 authors · Preprint · arXiv:2603.20163

2025 "Cosmology From CMB Lensing and Delensed EE Power Spectra Using 2019-2020 SPT-3G Polarization Data."
F. Ge et al. · 4th of 96 authors · *Phys. Rev. D* 111, 083534 · arXiv:2411.06000

2021 "Detection of Galactic and Extragalactic Millimeter-Wavelength Transient Sources with SPT-3G."
S. Guns et al. · 3rd of 122 authors · *ApJ* 916, 98 · arXiv:2103.06166

2021 "Optimal CMB Lensing Reconstruction and Parameter Estimation with SPTpol Data."
M. Millea et al. · 2nd of 69 authors · *ApJ* 922, 259 · arXiv:2012.01709

2017 "CO emission tracing a warp or radial flow within $\lesssim$ 100 au in the HD 100546 protoplanetary disk."
Catherine Walsh et al. · 2nd of 4 authors · *A&A* 607, A114 · arXiv:1710.00703

2017 "Radial Surface Density Profiles of Gas and Dust in the Debris Disk around 49 Ceti."
A. M. Hughes et al. · 4th of 12 authors · *ApJ* 839, 86 · arXiv:1704.01972

COLLABORATION PAPERS

2026 "Constraints on Millimeter-wave Extragalactic Transient Populations from 4 Years of SPT-3G data."
S. Guns et al. · 98 authors · Preprint · arXiv:2610.28633

2026 "Measuring the Clustering of tSZ-Selected Galaxy Clusters with SPT-3G."
E. S. Martsen et al. · 99 authors · Preprint · arXiv:2610.08947

2026 "SPT-3G D1: Foreground-Robust Lensing Templates for Primordial Gravitational Wave Searches."
Y. Nakato et al. · 95 authors · Preprint · arXiv:2608.06343

2026 "Polarization Angle Swings in Blazars Detected in the Millimeter-wave with the South Pole Telescope."
A. Simpson et al. · 96 authors · Preprint · arXiv:2608.00302

2026 "CMB Lensing Reconstruction Using Two Years of Temperature Data from the SPT-3G Summer Survey."
K. Levy et al. · 94 authors · Preprint · arXiv:2607.05784

2026 "Galaxy Clusters Selected via the Sunyaev-Zel'dovich Effect in 5 year data from the SPT-3G Main Survey."
L. E. Bleem et al. · 151 authors · Preprint · arXiv:2607.01175

2026 "Cross-correlation of SPT-3G D1 CMB lensing and DES Y3 galaxy lensing."
A. Ouellette et al. · 95 authors · Preprint · arXiv:2606.26223

2026 "Millimeter-wave Detections of Symbiotic Stars in SPT and ACT Data."
C. Tandoi et al. · 92 authors · Preprint · arXiv:2605.01022

2026 "SPT-3G D1: Compton-y maps using data from the SPT-3G and Planck surveys."
A. S. Maniyar et al. · 108 authors · Preprint · arXiv:2602.11279

2026 "Measurement of the Full Shape of the Thermal Sunyaev-Zeldovich Power Spectrum from South Pole Telescope and *Herschel*-SPIRE Observations."
S. Raghunathan et al. · 142 authors · *ApJL*, in press · arXiv:2602.10107

2026 "Characterization of the Polarization Beam Response of SPT-3G Using Point Sources."
T. de Haan et al. · 104 authors · *Open Journal of Astrophysics* 9 · arXiv:2602.06334

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P. Chaubal et al. · 107 authors · Preprint · arXiv:2601.20551

2026 "Towards constraining cosmological parameters with SPT-3G observations of 25% of the sky."
A. Vitrier et al. · 106 authors · *Phys. Rev. D* 114, 043548 · arXiv:2510.24669

2026 "Detection of Millimeter-Wavelength Flares from Two Accreting White Dwarf Systems in the SPT-3G Galactic Plane Survey."
Y. Wan et al. · 99 authors · *ApJ* 997, 133 · arXiv:2509.08962

2026 "SPT-3G D1: Axion Early Dark Energy with CMB experiments and DESI."
A. R. Khalife et al. · 95 authors · *Phys. Rev. D* 113, 103546 · arXiv:2507.23355

2026 "SPT-3G D1: CMB temperature and polarization power spectra and cosmology from 2019 and 2020 observations of the SPT-3G Main field."
E. Camphuis et al. · 97 authors · *Phys. Rev. D* 113, 083504 · arXiv:2506.20707

2026 "Millimeter-wave observations of Euclid Deep Field South using the South Pole Telescope: A data release of temperature maps and catalogs."
M. Archipley et al. · 111 authors · *A&A* 706, A17 · arXiv:2506.00298

2025 "Constraints on Inflationary Gravitational Waves with Two Years of SPT-3G Data."
J. A. Zebrowski et al. · 98 authors · *Phys. Rev. D* 112, 123520 · arXiv:2505.02827

2026 "Unified and consistent structure growth measurements from joint ACT, SPT and *Planck* CMB lensing."
Frank J. Qu et al. · 146 authors · *Phys. Rev. Lett.* 136, 021001 · arXiv:2504.20038

2025 "The SPT-Deep Cluster Catalog: Sunyaev-Zel'dovich Selected Clusters from Combined SPT-3G and SPTpol Measurements over 100 Square Degrees."
K. Kornoelje et al. · 194 authors · Preprint · arXiv:2503.17271

2025 "UNIONS: The Ultraviolet Near-Infrared Optical Northern Survey."
Stephen Gwyn et al. · 89 authors · *AJ* 170, 324 · arXiv:2503.13783

2025 "Pointing Accuracy Improvements for the South Pole Telescope with Machine Learning."
P. M. Chichura et al. · 96 authors · *Journal of Astronomical Instrumentation* 14, 2550001 · arXiv:2412.15167

2025 "Detection of Thermal Emission at Millimeter Wavelengths from Low-Earth Orbit Satellites."
A. Foster et al. · 91 authors · *Open Journal of Astrophysics* 8, 51 · arXiv:2411.03374

2025 "Measurement and Modeling of Polarized Atmosphere at the South Pole with SPT-3G."
A. Coerver et al. · 105 authors · *ApJ* 982, 15 · arXiv:2407.20579

2024 "Mass calibration of DES Year-3 clusters via SPT-3G CMB cluster lensing."
B. Ansarinejad et al. · 145 authors · *JCAP* 2024, 024 · arXiv:2404.02153

2024 "Testing the CDM Cosmological Model with Forthcoming Measurements of the Cosmic Microwave Background with SPT-3G."
K. Prabhu et al. · 101 authors · *ApJ* 973, 4 · arXiv:2403.17925

2024 "First Constraints on the Epoch of Reionization Using the non-Gaussianity of the Kinematic Sunyaev-Zel'dovich Effect from the South Pole Telescope and *Herschel*-SPIRE Observations."
S. Raghunathan et al. · 124 authors · *Phys. Rev. Lett.* 133, 121004 · arXiv:2403.02337

2024 "Flaring Stars in a Non-targeted mm-wave Survey with SPT-3G."
C. Tandoi et al. · 99 authors · *ApJ* 972, 6 · arXiv:2401.13525

2023 "A Measurement of Gravitational Lensing of the Cosmic Microwave Background Using SPT-3G 2018 Data."
Z. Pan et al. · 136 authors · *Phys. Rev. D* 108, 122005 · arXiv:2308.11608

2023 "A Measurement of the CMB Temperature Power Spectrum and Constraints on Cosmology from the SPT-3G 2018 TT/TE/EE Data Set."
L. Balkenhol et al. · 87 authors · *Phys. Rev. D* 108, 023510 · arXiv:2212.05642

2023 "A measurement of the mean central optical depth of galaxy clusters via the pairwise kinematic Sunyaev-Zel'dovich effect with SPT-3G and DES."
E. Schiappucci et al. · 142 authors · *Phys. Rev. D* 107, 042004 · arXiv:2207.11937

2022 "Searching for axion-like time-dependent cosmic birefringence with data from SPT-3G."
K. R. Ferguson et al. · 81 authors · *Phys. Rev. D* 106, 042011 · arXiv:2203.16567

2022 "Asteroid Measurements at Millimeter Wavelengths with the South Pole Telescope."
P. M. Chichura et al. · 144 authors · *ApJ* 936, 173 · arXiv:2202.01406

2022 "The Design and Integrated Performance of SPT-3G."
J. A. Sobrin et al. · 123 authors · *ApJS* 258, 42 · arXiv:2106.11202

2022 "Performance and characterization of the SPT-3G digital frequency-domain multiplexed readout system using an improved noise and crosstalk model."
J. Montgomery et al. · 121 authors · *Journal of Astronomical Telescopes, Instruments, and Systems* 8, 014001 · arXiv:2103.16017

2021 "Constraints on ΛCDM Extensions from the SPT-3G 2018 EE and TE Power Spectra."
L. Balkenhol et al. · 120 authors · *Phys. Rev. D* 104, 083509 · arXiv:2103.13618

2021 "Measurements of the E-Mode Polarization and Temperature-E-Mode Correlation of the CMB from SPT-3G 2018 Data."
D. Dutcher et al. · 121 authors · *Phys. Rev. D* 104, 022003 · arXiv:2101.01684

WHITE PAPER

2022 "Snowmass 2021 CMB-S4 White Paper."
Kevork Abazajian et al. · 356 authors · Snowmass 2021 white paper (not refereed) · arXiv:2203.08024

IN COLLABORATION REVIEW

"Red and blue alignments of DESI × UNIONS galaxies."
R. Paviot et al. · including **C. Daley**

"Euclid Q1: Clustering of photometrically selected galaxies and their cross-correlation with CMB lensing."
G. Fabbian et al. · including **C. Daley**