# Hironao Miyatake

List of Publications by Year
in descending order

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|---|---|---|---|
| 80 papers | 8,617 citations | 101543 36 h-index | 71685 76 g-index |
| 82 all docs | 82 docs citations | 82 times ranked | 7013 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | THE ELEVENTH AND TWELFTH DATA RELEASES OF THE SLOAN DIGITAL SKY SURVEY: FINAL DATA FROM SDSS-III. Astrophysical Journal, Supplement Series, 2015, 219, 12. | 7.7 | 1,877 |
| 2 | THE TENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST SPECTROSCOPIC DATA FROM THE SDSS-III APACHE POINT OBSERVATORY GALACTIC EVOLUTION EXPERIMENT. Astrophysical Journal, Supplement Series, 2014, 211, 17. | 7.7 | 820 |
| 3 | The Hyper Suprime-Cam SSP Survey: Overview and survey design. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 566 |
| 4 | Cosmology from cosmic shear power spectra with Subaru Hyper Suprime-Cam first-year data. Publication of the Astronomical Society of Japan, 2019, 71, . | 2.5 | 413 |
| 5 | The Hyper Suprime-Cam software pipeline. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 346 |
| 6 | First data release of the Hyper Suprime-Cam Subaru Strategic Program. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 327 |
| 7 | Second data release of the Hyper Suprime-Cam Subaru Strategic Program. Publication of the Astronomical Society of Japan, 2019, 71, . | 2.5 | 320 |
| 8 | Hyper Suprime-Cam: System design and verification of image quality. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 289 |
| 9 | GalSim: The modular galaxy image simulation toolkit. Astronomy and Computing, 2015, 10, 121-150. | 1.7 | 256 |
| 10 | Hyper Suprime-Cam. Proceedings of SPIE, 2012, , . | 0.8 | 242 |
| 11 | The first-year shear catalog of the Subaru Hyper Suprime-Cam Subaru Strategic Program Survey. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 174 |
| 12 | Cosmological constraints from cosmic shear two-point correlation functions with HSC survey first-year data. Publication of the Astronomical Society of Japan, 2020, 72, . | 2.5 | 169 |
| 13 | Hyper Suprime-Cam: Camera dewar design. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 162 |
| 14 | The on-site quality-assurance system for Hyper Suprime-Cam: OSQAH. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 156 |
| 15 | DETECTION OF THE SPLASHBACK RADIUS AND HALO ASSEMBLY BIAS OF MASSIVE GALAXY CLUSTERS. Astrophysical Journal, 2016, 825, 39. | 4.5 | 135 |
| 16 | Dark Quest. I. Fast and Accurate Emulation of Halo Clustering Statistics and Its Application to Galaxy Clustering. Astrophysical Journal, 2019, 884, 29. | 4.5 | 126 |
| 17 | THE THIRD GRAVITATIONAL LENSING ACCURACY TESTING (GREAT3) CHALLENGE HANDBOOK. Astrophysical Journal, Supplement Series, 2014, 212, 5. | 7.7 | 125 |
| 18 | THE WEAK LENSING SIGNAL AND THE CLUSTERING OF BOSS GALAXIES. II. ASTROPHYSICAL AND COSMOLOGICAL CONSTRAINTS. Astrophysical Journal, 2015, 806, 2. | 4.5 | 124 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The Atacama Cosmology Telescope: The Two-season ACTPol Sunyaevâ€“Zelâ€™dovich Effect Selected Cluster Catalog. Astrophysical Journal, Supplement Series, 2018, 235, 20. | 7.7 | 121 |
| 20 | GREAT3 results â€“ I. Systematic errors in shear estimation and the impact of real galaxy morphology. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2963-3007. | 4.4 | 119 |
| 21 | The Atacama Cosmology Telescope: A Catalog of >4000 Sunyaevâ€“Zelâ€™dovich Galaxy Clusters. Astrophysical Journal, Supplement Series, 2021, 253, 3. | 7.7 | 118 |
| 22 | Third data release of the Hyper Suprime-Cam Subaru Strategic Program. Publication of the Astronomical Society of Japan, 2022, 74, 247-272. | 2.5 | 117 |
| 23 | Weak lensing shear calibration with simulations of the HSC survey. Monthly Notices of the Royal Astronomical Society, 2018, 481, 3170-3195. | 4.4 | 102 |
| 24 | Evidence of Halo Assembly Bias in Massive Clusters. Physical Review Letters, 2016, 116, 041301. | 7.8 | 99 |
| 25 | THE WEAK LENSING SIGNAL AND THE CLUSTERING OF BOSS GALAXIES. I. MEASUREMENTS. Astrophysical Journal, 2015, 806, 1. | 4.5 | 87 |
| 26 | An optically-selected cluster catalog at redshift 0.1Â<Â<i>z</i>Â<Â1.1 from the Hyper Suprime-Cam Subaru Strategic Program S16A data. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 85 |
| 27 | Weak-lensing Mass Calibration of ACTPol Sunyaevâ€“Zelâ€™dovich Clusters with the Hyper Suprime-Cam Survey. Astrophysical Journal, 2019, 875, 63. | 4.5 | 72 |
| 28 | Constraints on the Massâ€“Richness Relation from the Abundance and Weak Lensing of SDSS Clusters. Astrophysical Journal, 2018, 854, 120. | 4.5 | 68 |
| 29 | Looking through the same lens: Shear calibration for LSST, Euclid, and WFIRST with stage 4 CMB lensing. Physical Review D, 2017, 95, . | 4.7 | 63 |
| 30 | Full-shape cosmology analysis of the SDSS-III BOSS galaxy power spectrum using an emulator-based halo model: A 5% determination of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ïƒ</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:math>. Physical Review D, 2022, 105, . | 4.7 | 50 |
| 31 | Weak-lensing mass calibration of the Atacama Cosmology Telescope equatorial Sunyaev-Zeldovich cluster sample with the Canada-France-Hawaii telescope stripe 82 survey. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 013-013. | 5.4 | 48 |
| 32 | Weak-lensing Analysis of X-Ray-selected XXL Galaxy Groups and Clusters with Subaru HSC Data. Astrophysical Journal, 2020, 890, 148. | 4.5 | 45 |
| 33 | Two- and three-dimensional wide-field weak lensing mass maps from the Hyper Suprime-Cam Subaru Strategic Program S16A data. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 42 |
| 34 | Tomographic galaxy clustering with the Subaru Hyper Suprime-Cam first year public data release. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 044-044. | 5.4 | 41 |
| 35 | Robust covariance estimation of galaxyâ€“galaxy weak lensing: validation and limitation of jackknife covariance. Monthly Notices of the Royal Astronomical Society, 2017, 470, 3476-3496. | 4.4 | 38 |
| 36 | Fundamental physics from future weak-lensing calibrated Sunyaev-Zelâ€™dovich galaxy cluster counts. Physical Review D, 2017, 96, . | 4.7 | 38 |

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| 37 | Cosmology with the Roman Space Telescope â€“ multiprobe strategies. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1746-1761. | 4.4 | 36 |
| 38 | Source selection for cluster weak lensing measurements in the Hyper Suprime-Cam survey. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 35 |
| 39 | Planck Sunyaevâ€“Zelâ€™dovich cluster mass calibration using Hyper Suprime-Cam weak lensing. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 33 |
| 40 | Testing gravity on large scales by combining weak lensing with galaxy clustering using CFHTLenS and BOSS CMASS. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4853-4865. | 4.4 | 32 |
| 41 | The eROSITA Final Equatorial-Depth Survey (eFEDS). Astronomy and Astrophysics, 2022, 661, A11. | 5.1 | 31 |
| 42 | The three-year shear catalog of the Subaru Hyper Suprime-Cam SSP Survey. Publication of the Astronomical Society of Japan, 2022, 74, 421-459. | 2.5 | 31 |
| 43 | A large sample of shear-selected clusters from the Hyper Suprime-Cam Subaru Strategic Program S16A Wide field mass maps. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 30 |
| 44 | Detection of stacked filament lensing between SDSS luminous red galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2391-2400. | 4.4 | 29 |
| 45 | Mock galaxy shape catalogues in the Subaru Hyper Suprime-Cam Survey. Monthly Notices of the Royal Astronomical Society, 2019, 486, 52-69. | 4.4 | 27 |
| 46 | Cross-correlation of the thermal Sunyaevâ€“Zelâ€™dovich effect and weak gravitational lensing: Planck and Subaru Hyper Suprime-Cam first-year data. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4780-4804. | 4.4 | 26 |
| 47 | Cosmology with the Roman Space Telescope: synergies with the Rubin Observatory Legacy Survey of Space and Time. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1514-1527. | 4.4 | 24 |
| 48 | First results on the cluster galaxy population from the Subaru Hyper Suprime-Cam survey. II. Faint end colorâ€“magnitude diagrams and radial profiles of red and blue galaxies at 0.1Â<Â<i>z</i>Â<Â1.1. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 23 |
| 49 | The eROSITA Final Equatorial-Depth Survey (eFEDS). Astronomy and Astrophysics, 2022, 661, A4. | 5.1 | 23 |
| 50 | A comparative study of satellite galaxies in Milky Way-like galaxies from HSC, DECaLS, and SDSS. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3776-3801. | 4.4 | 22 |
| 51 | Validating a minimal galaxy bias method for cosmological parameter inference using HSC-SDSS mock catalogs. Physical Review D, 2020, 102, . | 4.7 | 21 |
| 52 | Evidence for the Cross-correlation between Cosmic Microwave Background Polarization Lensing from Polarbear and Cosmic Shear from Subaru Hyper Suprime-Cam. Astrophysical Journal, 2019, 882, 62. | 4.5 | 20 |
| 53 | Subaru weak lensing measurement of a z = 0.81 cluster discovered by the Atacama Cosmology Telescope Surveyâ^.... Monthly Notices of the Royal Astronomical Society, 2013, 429, 3627-3644. | 4.4 | 19 |
| 54 | Measurement of a Cosmographic Distance Ratio with Galaxy and Cosmic Microwave Background Lensing. Physical Review Letters, 2017, 118, 161301. | 7.8 | 19 |

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| 55 | HSC Year 1 cosmology results with the minimal bias method: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>HSC</mml:mi><mml:mo stretchy="false">Ã—</mml:mo><mml:mi>BOSS</mml:mi><mml:mrow /></mml:mrow></mml:math> galaxy-galaxy weak lensing and BOSS galaxy clustering. Physical Review D, 2022, 105, . | 4.7 | 14 |
| 56 | Hyper Suprime-Cam: camera design. Proceedings of SPIE, 2010, , . | 0.8 | 13 |
| 57 | Hundreds of weak lensing shear-selected clusters from the Hyper Suprime-Cam Subaru Strategic Program S19A data. Publication of the Astronomical Society of Japan, 2021, 73, 817-829. | 2.5 | 13 |
| 58 | Lensing without borders â€“ I. A blind comparison of the amplitude of galaxyâ€“galaxy lensing between independent imaging surveys. Monthly Notices of the Royal Astronomical Society, 2022, 510, 6150-6189. | 4.4 | 12 |
| 59 | The Stellar Mass in and around Isolated Central Galaxies: Connections to the Total Mass Distribution through Galaxyâ€“Galaxy Lensing in the Hyper Suprime-Cam Survey. Astrophysical Journal, 2021, 919, 25. | 4.5 | 11 |
| 60 | Hyper Suprime-Cam: CCD readout electronics. Proceedings of SPIE, 2008, , . | 0.8 | 8 |
| 61 | Hyper Suprime-Cam: development of the CCD readout electronics. Proceedings of SPIE, 2010, , . | 0.8 | 8 |
| 62 | The eROSITA Final Equatorial-Depth Survey (eFEDS). Astronomy and Astrophysics, 2022, 661, A14. | 5.1 | 8 |
| 63 | Multiwavelength study of X-ray luminous clusters in the Hyper Suprime-Cam Subaru Strategic Program S16A field. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 7 |
| 64 | Joint Survey Processing. I. Compact Oddballs in the COSMOS Fieldâ€”Low-luminosity Quasars at z > 6?. Astrophysical Journal, 2022, 929, 66. | 4.5 | 7 |
| 65 | Hyper Suprime-Cam: back-end electronics for CCD readout. Proceedings of SPIE, 2008, , . | 0.8 | 6 |
| 66 | Impact of point spread function higher moments error on weak gravitational lensing. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1978-1993. | 4.4 | 6 |
| 67 | Back-End Readout Electronics for Hyper Suprime-Cam. IEEE Transactions on Nuclear Science, 2012, 59, 1767-1771. | 2.0 | 5 |
| 68 | The Subaru HSC weak lensing mass-observable scaling relations of spectroscopic galaxy groups from the GAMA survey. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5408-5425. | 4.4 | 5 |
| 69 | Hyper Suprime-Cam: performance of the CCD readout electronics. , 2012, , . | | 4 |
| 70 | Prototype readout module for hyper suprime-cam. , 2008, , . | | 3 |
| 71 | <tt>CLMM</tt>: a LSST-DESC cluster weak lensing mass modeling library for cosmology. Monthly Notices of the Royal Astronomical Society, 2021, 508, 6092-6110. | 4.4 | 3 |
| 72 | FPFS Shear Estimator: Systematic Tests on the Hyper Suprime-Cam Survey First-year Data. Astrophysical Journal, Supplement Series, 2020, 251, 19. | 7.7 | 3 |

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| 73 | The GREAT3 challenge. Journal of Instrumentation, 2014, 9, C04031-C04031. | 1.2 | 2 |
| 74 | Weak lensing measurement of filamentary structure with the SDSS BOSS and Subaru Hyper Suprime-Cam data. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3695-3704. | 4.4 | 2 |
| 75 | LoVoCCS. I. Survey Introduction, Data Processing Pipeline, and Early Science Results. Astrophysical Journal, 2022, 933, 84. | 4.5 | 2 |
| 76 | R&D status of readout system for a large photo cathode HAPD. , 2007, , . | | 1 |
| 77 | Back-end readout electronics for Hyper Suprime-Cam. , 2010, , . | | 1 |
| 78 | Readout Electronics for Hyper Suprime-Cam. Physics Procedia, 2012, 37, 1413-1420. | 1.2 | 1 |
| 79 | Development of database system for data obtained by Hyper Suprime-Cam on Subaru Telescope. , 2014, , . | | 1 |
| 80 | On the Assembly Bias of Cool Core Clusters Traced by HÎ± Nebulae. Astrophysical Journal, 2019, 882, 166. | 4.5 | 1 |