

# Nathalie Palanque-Delabrouille

## List of Publications by Year in descending order

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84  
papers

24,631  
citations

25034

57  
h-index

58581

82  
g-index

85  
all docs

85  
docs citations

85  
times ranked

11572  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological analysis of the DR12 galaxy sample. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2617-2652.   | 4.4 | 1,906     |
| 2  | 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     |
| 3  | SDSS-III: MASSIVE SPECTROSCOPIC SURVEYS OF THE DISTANT UNIVERSE, THE MILKY WAY, AND EXTRA-SOLAR PLANETARY SYSTEMS. Astronomical Journal, 2011, 142, 72.   | 4.7 | 1,700     |
| 4  | THE BARYON OSCILLATION SPECTROSCOPIC SURVEY OF SDSS-III. Astronomical Journal, 2013, 145, 10.   | 4.7 | 1,571     |
| 5  | The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: baryon acoustic oscillations in the Data Releases 10 and 11 Galaxy samples. Monthly Notices of the Royal Astronomical Society, 2014, 441, 24-62.  | 4.4 | 1,168     |
| 6  | THE EIGHTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST DATA FROM SDSS-III. Astrophysical Journal, Supplement Series, 2011, 193, 29.   | 7.7 | 1,166     |
| 7  | THE NINTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST SPECTROSCOPIC DATA FROM THE SDSS-III BARYON OSCILLATION SPECTROSCOPIC SURVEY. Astrophysical Journal, Supplement Series, 2012, 203, 21.  | 7.7 | 1,158     |
| 8  | Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe. Astronomical Journal, 2017, 154, 28.   | 4.7 | 1,100     |
| 9  | The 16th Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra. Astrophysical Journal, Supplement Series, 2020, 249, 3.  | 7.7 | 826       |
| 10 | Overview of the DESI Legacy Imaging Surveys. Astronomical Journal, 2019, 157, 168.  | 4.7 | 825       |
| 11 | 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       |
| 12 | The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the Extended Baryon Oscillation Spectroscopic Survey and from the Second Phase of the Apache Point Observatory Galactic Evolution Experiment. Astrophysical Journal, Supplement Series, 2018, 235, 42. | 7.7 | 796       |
| 13 | Baryon acoustic oscillations in the Ly $\alpha$ forest of BOSS DR11 quasars. Astronomy and Astrophysics, 2015, 574, A59.  | 5.1 | 669       |
| 14 | THE SDSS-IV EXTENDED BARYON OSCILLATION SPECTROSCOPIC SURVEY: OVERVIEW AND EARLY DATA. Astronomical Journal, 2016, 151, 44.   | 4.7 | 582       |
| 15 | Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Cosmological implications from two decades of spectroscopic surveys at the Apache Point Observatory. Physical Review D, 2021, 103, .  | 4.7 | 527       |
| 16 | Cosmological implications of baryon acoustic oscillation measurements. Physical Review D, 2015, 92, .   | 4.7 | 487       |
| 17 | The 13th Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory. Astrophysical Journal, Supplement Series, 2017, 233, 25.   | 7.7 | 406       |
| 18 | Quasar-Lyman $\alpha$ forest cross-correlation from BOSS DR11: Baryon Acoustic Oscillations. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 027-027.   | 5.4 | 392       |

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|----|---|-----|-----------|
| 19 | The Sloan Digital Sky Survey Quasar Catalog: Twelfth data release. <i>Astronomy and Astrophysics</i> , 2017, 597, A79.  | 5.1 | 337       |
| 20 | The Sloan Digital Sky Survey Quasar Catalog: Fourteenth data release. <i>Astronomy and Astrophysics</i> , 2018, 613, A51.   | 5.1 | 333       |
| 21 | The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: first measurement of baryon acoustic oscillations between redshift 0.8 and 2.2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 4773-4794. | 4.4 | 301       |
| 22 | Measurement of baryon acoustic oscillation correlations at $z \approx 2.3$ with SDSS DR12 Ly $\alpha$ -Forests. <i>Astronomy and Astrophysics</i> , 2017, 603, A12.   | 5.1 | 291       |
| 23 | The Sloan Digital Sky Survey Quasar Catalog: Sixteenth Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2020, 250, 8.  | 7.7 | 248       |
| 24 | THE SDSS-III BARYON OSCILLATION SPECTROSCOPIC SURVEY: QUASAR TARGET SELECTION FOR DATA RELEASE NINE. <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 3.  | 7.7 | 246       |
| 25 | Neutrino masses and cosmology with Lyman-alpha forest power spectrum. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 011-011.  | 5.4 | 211       |
| 26 | The Sloan Digital Sky Survey quasar catalog: tenth data release. <i>Astronomy and Astrophysics</i> , 2014, 563, A54.  | 5.1 | 200       |
| 27 | Baryon acoustic oscillations from the complete SDSS-III Ly $\alpha$ -quasar cross-correlation function at $z = 2.4$ . <i>Astronomy and Astrophysics</i> , 2017, 608, A130.  | 5.1 | 189       |
| 28 | Evidence of Galaxy Cluster Motions with the Kinematic Sunyaev-Zeldovich Effect. <i>Physical Review Letters</i> , 2012, 109, 041101.   | 7.8 | 185       |
| 29 | Measurement of baryon acoustic oscillations in the Lyman- $\alpha$ forest fluctuations in BOSS data release 9. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 026-026.   | 5.4 | 185       |
| 30 | Constraining the mass of light bosonic dark matter using SDSS Lyman- $\alpha$ forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 4606-4614.  | 4.4 | 183       |
| 31 | Baryon acoustic oscillations from the cross-correlation of Ly $\alpha$ absorption and quasars in eBOSS DR14. <i>Astronomy and Astrophysics</i> , 2019, 629, A86.  | 5.1 | 176       |
| 32 | Baryon acoustic oscillations at $z = 2.34$ from the correlations of Ly $\alpha$ absorption in eBOSS DR14. <i>Astronomy and Astrophysics</i> , 2019, 629, A85.   | 5.1 | 176       |
| 33 | The Completed SDSS-IV Extended Baryon Oscillation Spectroscopic Survey: Baryon Acoustic Oscillations with Ly $\alpha$ -Forests. <i>Astrophysical Journal</i> , 2020, 901, 153.  | 4.5 | 174       |
| 34 | THE SDSS-III BARYON OSCILLATION SPECTROSCOPIC SURVEY: THE QUASAR LUMINOSITY FUNCTION FROM DATA RELEASE NINE. <i>Astrophysical Journal</i> , 2013, 773, 14.  | 4.5 | 170       |
| 35 | The one-dimensional Ly $\alpha$ forest power spectrum from BOSS. <i>Astronomy and Astrophysics</i> , 2013, 559, A85.  | 5.1 | 166       |
| 36 | THE SDSS-IV EXTENDED BARYON OSCILLATION SPECTROSCOPIC SURVEY: QUASAR TARGET SELECTION. <i>Astrophysical Journal, Supplement Series</i> , 2015, 221, 27.   | 7.7 | 153       |

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|----|---|-----|-----------|
| 37 | Lyman-alpha forests cool warm dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 012-012.   | 5.4 | 153       |
| 38 | Hints, neutrino bounds, and WDM constraints from SDSS DR14 Lyman- $\hat{\pm}$ and Planck full-survey data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 038-038.   | 5.4 | 144       |
| 39 | Constraints on neutrino masses from Lyman-alpha forest power spectrum with BOSS and XQ-100. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 047-047.  | 5.4 | 139       |
| 40 | PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 006-006.   | 5.4 | 138       |
| 41 | The Lyman- $\hat{\pm}$ forest in three dimensions: measurements of large scale flux correlations from BOSS 1st-year data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 001-001.  | 5.4 | 126       |
| 42 | RAPIDLY RISING TRANSIENTS IN THE SUPERNOVA "SUPERLUMINOUS SUPERNOVA GAP". <i>Astrophysical Journal</i> , 2016, 819, 35.   | 4.5 | 122       |
| 43 | CLUSTERING OF SLOAN DIGITAL SKY SURVEY III PHOTOMETRIC LUMINOUS GALAXIES: THE MEASUREMENT, SYSTEMATICS, AND COSMOLOGICAL IMPLICATIONS. <i>Astrophysical Journal</i> , 2012, 761, 14.  | 4.5 | 113       |
| 44 | The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: measurement of the growth rate of structure from the anisotropic correlation function between redshift 0.8 and 2.2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1639-1663. | 4.4 | 109       |
| 45 | Constraint on neutrino masses from SDSS-III/BOSS Ly $\hat{\pm}$ forest and other cosmological probes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 045-045.  | 5.4 | 100       |
| 46 | The Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Large-scale structure catalogues for cosmological analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 2354-2371.  | 4.4 | 100       |
| 47 | Constraints from Ly $\hat{\pm}$ forests on non-thermal dark matter including resonantly-produced sterile neutrinos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 013-013.  | 5.4 | 98        |
| 48 | The extended Baryon Oscillation Spectroscopic Survey: a cosmological forecast. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 2377-2390.   | 4.4 | 83        |
| 49 | The large-scale quasar-Lyman $\hat{\pm}$ forest cross-correlation from BOSS. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 018-018.   | 5.4 | 80        |
| 50 | The one-dimensional power spectrum from the SDSS DR14 Ly $\hat{\pm}$ forests. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 017-017.  | 5.4 | 80        |
| 51 | ACOUSTIC SCALE FROM THE ANGULAR POWER SPECTRA OF SDSS-III DR8 PHOTOMETRIC LUMINOUS GALAXIES. <i>Astrophysical Journal</i> , 2012, 761, 13.  | 4.5 | 77        |
| 52 | The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: weighing the neutrino mass using the galaxy power spectrum of the CMASS sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 2038-2053.  | 4.4 | 68        |
| 53 | THE BOSS Ly $\hat{\pm}$ FOREST SAMPLE FROM SDSS DATA RELEASE 9. <i>Astronomical Journal</i> , 2013, 145, 69.  | 4.7 | 68        |
| 54 | Clustering of quasars in SDSS-IV eBOSS: study of potential systematics and bias determination. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 017-017.   | 5.4 | 66        |

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|----|---|------|-----------|
| 55 | IGM CONSTRAINTS FROM THE SDSS-III/BOSS DR9 Ly $\alpha$ FOREST TRANSMISSION PROBABILITY DISTRIBUTION FUNCTION. <i>Astrophysical Journal</i> , 2015, 799, 196.  | 4.5  | 64        |
| 56 | Fitting methods for baryon acoustic oscillations in the Lyman- $\alpha$ forest fluctuations in BOSS data release 9. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 024-024.            | 5.4  | 61        |
| 57 | Matter power spectrum: from Ly $\alpha$ forest to CMB scales. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 2247-2253.  | 4.4  | 51        |
| 58 | Probing the circumgalactic medium at high-redshift using composite BOSS spectra of strong Lyman $\alpha$ forest absorbers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 1718-1740. | 4.4  | 50        |
| 59 | Large-scale clustering of Lyman $\alpha$ emission intensity from SDSS/BOSS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 3541-3572.  | 4.4  | 50        |
| 60 | Preliminary Target Selection for the DESI Luminous Red Galaxy (LRG) Sample. <i>Research Notes of the AAS</i> , 2020, 4, 181.  | 0.7  | 46        |
| 61 | New approach for precise computation of Lyman- $\alpha$ forest power spectrum with hydrodynamical simulations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 005-005.                 | 5.4  | 42        |
| 62 | Sloan Digital Sky Survey III photometric quasar clustering: probing the initial conditions of the Universe. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 040-040.                    | 5.4  | 41        |
| 63 | Preliminary Target Selection for the DESI Bright Galaxy Survey (BGS). <i>Research Notes of the AAS</i> , 2020, 4, 187.  | 0.7  | 40        |
| 64 | Preliminary Target Selection for the DESI Quasar (QSO) Sample. <i>Research Notes of the AAS</i> , 2020, 4, 179.   | 0.7  | 38        |
| 65 | Preliminary Target Selection for the DESI Emission Line Galaxy (ELG) Sample. <i>Research Notes of the AAS</i> , 2020, 4, 180.   | 0.7  | 34        |
| 66 | Suite of hydrodynamical simulations for the Lyman- $\alpha$ forest with massive neutrinos. <i>Astronomy and Astrophysics</i> , 2014, 567, A79.  | 5.1  | 32        |
| 67 | Constraints on dark radiation from cosmological probes. <i>Physical Review D</i> , 2015, 92, .  | 4.7  | 31        |
| 68 | Status and perspectives of neutrino physics. <i>Progress in Particle and Nuclear Physics</i> , 2022, 124, 103947.   | 14.4 | 31        |
| 69 | The impact of AGN feedback on the 1D power spectra from the Ly $\alpha$ forest using the Horizon-AGN suite of simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 1825-1840. | 4.4  | 28        |
| 70 | Mock Quasar-Lyman- $\alpha$ forest data-sets for the SDSS-III Baryon Oscillation Spectroscopic Survey. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 060-060.                         | 5.4  | 24        |
| 71 | <b>LyaCoLoRe</b> : synthetic datasets for current and future Lyman- $\alpha$ forest BAO surveys. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 068-068.                               | 5.4  | 24        |
| 72 | Quasar host environments: The view from <i>Planck</i> . <i>Astronomy and Astrophysics</i> , 2016, 588, A61.   | 5.1  | 19        |

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|----|--|------|-----------|
| 73 | Simulating intergalactic gas for DESI-like small scale Lyman $\hat{\pm}$ forest observations. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 059.                               | 5.4  | 18        |
| 74 | Characterizing unknown systematics in large scale structure surveys. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 007-007.  | 5.4  | 16        |
| 75 | Microwave spectro-polarimetry of matter and radiation across space and time. Experimental Astronomy, 2021, 51, 1471-1514.  | 3.7  | 15        |
| 76 | DUNE: the Dark Universe Explorer. , 2006, 6265, 625.   |      | 14        |
| 77 | Detection of Ly $\hat{2}$ auto-correlations and Ly $\hat{\pm}$ -Ly $\hat{2}$ cross-correlations in BOSS Data Release 9. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 016-016. | 5.4  | 13        |
| 78 | Angular clustering properties of the DESI QSO target selection using DR9 Legacy Imaging Surveys. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3904-3923.                    | 4.4  | 11        |
| 79 | Deep Learning of Dark Energy Spectroscopic Instrument Mock Spectra to Find Damped Ly $\hat{\pm}$ Systems. Astrophysical Journal, Supplement Series, 2022, 259, 28.                           | 7.7  | 8         |
| 80 | A search for Galactic Dark Matter with EROS 2. New Astronomy, 1999, 4, 265-273.  | 1.8  | 4         |
| 81 | The Sloan Digital Sky Survey Reverberation Mapping Project: Photometric <i>g</i> and <i>i</i> Light Curves. Astrophysical Journal, Supplement Series, 2020, 250, 10.                         | 7.7  | 3         |
| 82 | Overview of astroparticle physics and dark matter searches. International Journal of Modern Physics A, 2007, 22, 5735-5746.  | 1.5  | 1         |
| 83 | Dark matters. Comptes Rendus Physique, 2000, 1, 217-225.   | 0.1  | 0         |
| 84 | Not enough MACHOs in the galactic halo. New Astronomy Reviews, 2001, 45, 395-399.  | 12.8 | 0         |