

Eric F Hivon

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8081427/publications.pdf>

Version: 2024-02-01

149
papers

30,162
citations

6233

80
h-index

8599

146
g-index

149
all docs

149
docs citations

149
times ranked

15386
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | <i>Planck</i> 2013 results. XVI. Cosmological parameters. <i>Astronomy and Astrophysics</i> , 2014, 571, A16. | 2.1 | 4,703 |
| 2 | HEALPix: A Framework for High-Resolution Discretization and Fast Analysis of Data Distributed on the Sphere. <i>Astrophysical Journal</i> , 2005, 622, 759-771. | 1.6 | 4,312 |
| 3 | A flat Universe from high-resolution maps of the cosmic microwave background radiation. <i>Nature</i> , 2000, 404, 955-959. | 13.7 | 2,232 |
| 4 | <i>Planck</i> 2013 results. I. Overview of products and scientific results. <i>Astronomy and Astrophysics</i> , 2014, 571, A1. | 2.1 | 948 |
| 5 | <i>Planck</i> 2013 results. XXII. Constraints on inflation. <i>Astronomy and Astrophysics</i> , 2014, 571, A22. | 2.1 | 806 |
| 6 | A Measurement by BOOMERANG of Multiple Peaks in the Angular Power Spectrum of the Cosmic Microwave Background. <i>Astrophysical Journal</i> , 2002, 571, 604-614. | 1.6 | 751 |
| 7 | MASTER of the Cosmic Microwave Background Anisotropy Power Spectrum: A Fast Method for Statistical Analysis of Large and Complex Cosmic Microwave Background Data Sets. <i>Astrophysical Journal</i> , 2002, 567, 2-17. | 1.6 | 636 |
| 8 | <i>Planck</i> 2013 results. XI. All-sky model of thermal dust emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A11. | 2.1 | 566 |
| 9 | <i>Planck</i> 2013 results. XX. Cosmology from Sunyaev-Zeldovich cluster counts. <i>Astronomy and Astrophysics</i> , 2014, 571, A20. | 2.1 | 465 |
| 10 | healpy: equal area pixelization and spherical harmonics transforms for data on the sphere in Python. <i>Journal of Open Source Software</i> , 2019, 4, 1298. | 2.0 | 450 |
| 11 | Cosmology from MAXIMA-1, BOOMERANG, and COBE DMR Cosmic Microwave Background Observations. <i>Physical Review Letters</i> , 2001, 86, 3475-3479. | 2.9 | 433 |
| 12 | <i>Planck</i> early results. I. The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2011, 536, A1. | 2.1 | 394 |
| 13 | <i>Planck</i> 2013 results. XXIX. The <i>Planck</i> catalogue of Sunyaev-Zeldovich sources. <i>Astronomy and Astrophysics</i> , 2014, 571, A29. | 2.1 | 380 |
| 14 | <i>Planck</i> 2013 results. XXIII. Isotropy and statistics of the CMB. <i>Astronomy and Astrophysics</i> , 2014, 571, A23. | 2.1 | 367 |
| 15 | <i>Planck</i> 2013 results. XV. CMB power spectra and likelihood. <i>Astronomy and Astrophysics</i> , 2014, 571, A15. | 2.1 | 364 |
| 16 | <i>Planck</i> 2013 results. XXIV. Constraints on primordial non-Gaussianity. <i>Astronomy and Astrophysics</i> , 2014, 571, A24. | 2.1 | 350 |
| 17 | <i>Planck</i> early results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. <i>Astronomy and Astrophysics</i> , 2011, 536, A8. | 2.1 | 335 |
| 18 | <i>Planck</i> early results. XIX. All-sky temperature and dust optical depth from <i>Planck</i> and IRAS. Constraints on the "dark gas" in our Galaxy. <i>Astronomy and Astrophysics</i> , 2011, 536, A19. | 2.1 | 314 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | <i>Planck</i> intermediate results. XIX. An overview of the polarized thermal emission from Galactic dust. <i>Astronomy and Astrophysics</i> , 2015, 576, A104. | 2.1 | 296 |
| 20 | Multiple Peaks in the Angular Power Spectrum of the Cosmic Microwave Background: Significance and Consequences for Cosmology. <i>Astrophysical Journal</i> , 2002, 564, 559-566. | 1.6 | 283 |
| 21 | <i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A131. | 2.1 | 276 |
| 22 | <i>Planck</i> 2013 results. XVII. Gravitational lensing by large-scale structure. <i>Astronomy and Astrophysics</i> , 2014, 571, A17. | 2.1 | 272 |
| 23 | <i>Planck</i> pre-launch status: The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2010, 520, A1. | 2.1 | 268 |
| 24 | Nonlinear Evolution of the Bispectrum of Cosmological Perturbations. <i>Astrophysical Journal</i> , 1998, 496, 586-604. | 1.6 | 227 |
| 25 | <i>Planck</i> early results. VII. The Early Release Compact Source Catalogue. <i>Astronomy and Astrophysics</i> , 2011, 536, A7. | 2.1 | 224 |
| 26 | <i>Planck</i> 2013 results. XXV. Searches for cosmic strings and other topological defects. <i>Astronomy and Astrophysics</i> , 2014, 571, A25. | 2.1 | 223 |
| 27 | A Measurement of the CMB $\Delta\ell^2$ Spectrum from the 2003 Flight of BOOMERANG. <i>Astrophysical Journal</i> , 2006, 647, 813-822. | 1.6 | 217 |
| 28 | <i>Planck</i> 2013 results. XII. Diffuse component separation. <i>Astronomy and Astrophysics</i> , 2014, 571, A12. | 2.1 | 216 |
| 29 | <i>Planck</i> 2013 results. XXX. Cosmic infrared background measurements and implications for star formation. <i>Astronomy and Astrophysics</i> , 2014, 571, A30. | 2.1 | 210 |
| 30 | MEASUREMENT OF COSMIC MICROWAVE BACKGROUND POLARIZATION POWER SPECTRA FROM TWO YEARS OF BICEP DATA. <i>Astrophysical Journal</i> , 2010, 711, 1123-1140. | 1.6 | 194 |
| 31 | A Measurement of the Angular Power Spectrum of the CMB Temperature Anisotropy from the 2003 Flight of BOOMERANG. <i>Astrophysical Journal</i> , 2006, 647, 823-832. | 1.6 | 186 |
| 32 | Fast estimation of polarization power spectra using correlation functions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 350, 914-926. | 1.6 | 185 |
| 33 | <i>Planck</i> pre-launch status: The HFI instrument, from specification to actual performance. <i>Astronomy and Astrophysics</i> , 2010, 520, A9. | 2.1 | 184 |
| 34 | <i>Planck</i> early results. XXV. Thermal dust in nearby molecular clouds. <i>Astronomy and Astrophysics</i> , 2011, 536, A25. | 2.1 | 184 |
| 35 | <i>Planck</i> early results. XVIII. The power spectrum of cosmic infrared background anisotropies. <i>Astronomy and Astrophysics</i> , 2011, 536, A18. | 2.1 | 180 |
| 36 | <i>Planck</i> early results. XXIV. Dust in the diffuse interstellar medium and the Galactic halo. <i>Astronomy and Astrophysics</i> , 2011, 536, A24. | 2.1 | 179 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | <i>Planck</i> early results. XI. Calibration of the local galaxy cluster Sunyaev-Zeldovich scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 536, A11. | 2.1 | 174 |
| 38 | <i>Planck</i> 2013 results. XXVII. Doppler boosting of the CMB: Eppure si muove. <i>Astronomy and Astrophysics</i> , 2014, 571, A27. | 2.1 | 170 |
| 39 | <i>Planck</i> 2013 results. XXVIII. The <i>Planck</i> Catalogue of Compact Sources. <i>Astronomy and Astrophysics</i> , 2014, 571, A28. | 2.1 | 162 |
| 40 | Cosmological Parameters from the 2003 Flight of BOOMERANG. <i>Astrophysical Journal</i> , 2006, 647, 799-812. | 1.6 | 159 |
| 41 | <i>Planck</i> early results. XX. New light on anomalous microwave emission from spinning dust grains. <i>Astronomy and Astrophysics</i> , 2011, 536, A20. | 2.1 | 155 |
| 42 | <i>Planck</i> early results. XXIII. The first all-sky survey of Galactic cold clumps. <i>Astronomy and Astrophysics</i> , 2011, 536, A23. | 2.1 | 152 |
| 43 | <i>Planck</i> 2013 results. XIII. Galactic CO emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A13. | 2.1 | 144 |
| 44 | <i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 557, A52. | 2.1 | 141 |
| 45 | <i>Planck</i> early results. IV. First assessment of the High Frequency Instrument in-flight performance. <i>Astronomy and Astrophysics</i> , 2011, 536, A4. | 2.1 | 136 |
| 46 | Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2014, 566, A55. | 2.1 | 134 |
| 47 | <i>Planck</i> 2013 results. XXI. Power spectrum and high-order statistics of the <i>Planck</i> all-sky Compton parameter map. <i>Astronomy and Astrophysics</i> , 2014, 571, A21. | 2.1 | 133 |
| 48 | Reducing the $\langle \sigma_8 \rangle$ and $\langle \sigma_8 \rangle$ tensions with dark matter-neutrino interactions. <i>Physical Review D</i> , 2018, 97, . | 1.6 | 133 |
| 49 | Cosmic microwave background anisotropy power spectrum statistics for high precision cosmology. <i>Physical Review D</i> , 2001, 64, . | 1.6 | 132 |
| 50 | <i>Planck</i> 2013 results. IX. HFI spectral response. <i>Astronomy and Astrophysics</i> , 2014, 571, A9. | 2.1 | 129 |
| 51 | <i>Planck</i> intermediate results. XXII. Frequency dependence of thermal emission from Galactic dust intensity and polarization. <i>Astronomy and Astrophysics</i> , 2015, 576, A107. | 2.1 | 126 |
| 52 | <i>Planck</i> 2013 results. XIX. The integrated Sachs-Wolfe effect. <i>Astronomy and Astrophysics</i> , 2014, 571, A19. | 2.1 | 126 |
| 53 | <i>Planck</i> early results. IX. <i>XMM-Newton</i> follow-up for validation of <i>Planck</i> cluster candidates. <i>Astronomy and Astrophysics</i> , 2011, 536, A9. | 2.1 | 126 |
| 54 | <i>Planck</i> early results. X. Statistical analysis of Sunyaev-Zeldovich scaling relations for X-ray galaxy clusters. <i>Astronomy and Astrophysics</i> , 2011, 536, A10. | 2.1 | 124 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | A Measurement of the Polarization-temperature Angular Cross-power Spectrum of the Cosmic Microwave Background from the 2003 Flight of BOOMERANG. <i>Astrophysical Journal</i> , 2006, 647, 833-839. | 1.6 | 123 |
| 56 | <i>Planck</i> early results. XVII. Origin of the submillimetre excess dust emission in the Magellanic Clouds. <i>Astronomy and Astrophysics</i> , 2011, 536, A17. | 2.1 | 123 |
| 57 | <i>Planck</i> early results. XXI. Properties of the interstellar medium in the Galactic plane. <i>Astronomy and Astrophysics</i> , 2011, 536, A21. | 2.1 | 119 |
| 58 | <i>Planck</i> intermediate results. XX. Comparison of polarized thermal emission from Galactic dust with simulations of MHD turbulence. <i>Astronomy and Astrophysics</i> , 2015, 576, A105. | 2.1 | 119 |
| 59 | <i>Planck</i> early results. VI. The High Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2011, 536, A6. | 2.1 | 116 |
| 60 | <i>Planck</i> 2013 results. XVIII. The gravitational lensing-infrared background correlation. <i>Astronomy and Astrophysics</i> , 2014, 571, A18. | 2.1 | 116 |
| 61 | <i>Planck</i> 2013 results. VIII. HFI photometric calibration and mapmaking. <i>Astronomy and Astrophysics</i> , 2014, 571, A8. | 2.1 | 107 |
| 62 | <i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 554, A139. | 2.1 | 106 |
| 63 | <i>Planck</i> early results. XIII. Statistical properties of extragalactic radio sources in the <i>Planck</i> Early Release Compact Source Catalogue. <i>Astronomy and Astrophysics</i> , 2011, 536, A13. | 2.1 | 103 |
| 64 | <i>Planck</i> 2013 results. VI. High Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A6. | 2.1 | 103 |
| 65 | Improved Measurement of the Angular Power Spectrum of Temperature Anisotropy in the Cosmic Microwave Background from Two New Analyses of BOOMERANG Observations. <i>Astrophysical Journal</i> , 2003, 599, 786-805. | 1.6 | 102 |
| 66 | <i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 554, A140. | 2.1 | 101 |
| 67 | <i>Planck</i> early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 536, A12. | 2.1 | 100 |
| 68 | <i>Planck</i> 2013 results. VII. HFI time response and beams. <i>Astronomy and Astrophysics</i> , 2014, 571, A7. | 2.1 | 99 |
| 69 | Instrument, method, brightness, and polarization maps from the 2003 flight of BOOMERANG. <i>Astronomy and Astrophysics</i> , 2006, 458, 687-716. | 2.1 | 99 |
| 70 | <i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A134. | 2.1 | 94 |
| 71 | <i>Planck</i> early results. XV. Spectral energy distributions and radio continuum spectra of northern extragalactic radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A15. | 2.1 | 93 |
| 72 | CMB polarization systematics due to beam asymmetry: Impact on inflationary science. <i>Physical Review D</i> , 2008, 77, . | 1.6 | 92 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | <i>Planck</i> early results. II. The thermal performance of <i>Planck</i>. Astronomy and Astrophysics, 2011, 536, A2. | 2.1 | 91 |
| 74 | <i>Planck</i> 2013 results. XXVI. Background geometry and topology of the Universe. Astronomy and Astrophysics, 2014, 571, A26. | 2.1 | 91 |
| 75 | <i>Planck</i> 2013 results. XIV. Zodiacal emission. Astronomy and Astrophysics, 2014, 571, A14. | 2.1 | 90 |
| 76 | The optically dark side of galaxy formation. Nature, 1997, 390, 257-259. | 13.7 | 88 |
| 77 | <i>Planck</i> early results. XXII. The submillimetre properties of a sample of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A22. | 2.1 | 88 |
| 78 | BOOMERANG: A Balloon-borne Millimeter-Wave Telescope and Total Power Receiver for Mapping Anisotropy in the Cosmic Microwave Background. Astrophysical Journal, Supplement Series, 2003, 148, 527-541. | 3.0 | 86 |
| 79 | <i>Planck</i> intermediate results. Astronomy and Astrophysics, 2014, 566, A54. | 2.1 | 80 |
| 80 | <i>Planck</i> intermediate results. Astronomy and Astrophysics, 2014, 561, A97. | 2.1 | 80 |
| 81 | <i>Planck</i> intermediate results. Astronomy and Astrophysics, 2015, 580, A22. | 2.1 | 80 |
| 82 | <i>Planck</i> 2013 results. XXXII. The updated <i>Planck</i> catalogue of Sunyaev-Zeldovich sources. Astronomy and Astrophysics, 2015, 581, A14. | 2.1 | 80 |
| 83 | <i>Planck</i> early results. XVI. The <i>Planck</i> view of nearby galaxies. Astronomy and Astrophysics, 2011, 536, A16. | 2.1 | 74 |
| 84 | <i>Planck</i> 2013 results. II. Low Frequency Instrument data processing. Astronomy and Astrophysics, 2014, 571, A2. | 2.1 | 74 |
| 85 | The BOOMERanG experiment and the curvature of the universe. Progress in Particle and Nuclear Physics, 2002, 48, 243-261. | 5.6 | 73 |
| 86 | <i>Planck</i> early results. XXVI. Detection with <i>Planck</i> and confirmation by <i>XMM-Newton</i> of PLCKG266.6+27.3, an exceptionally X-ray luminous and massive galaxy cluster at $z \sim 1$. Astronomy and Astrophysics, 2011, 536, A26. | 2.1 | 72 |
| 87 | <i>Planck</i> 2013 results. XXXI. Consistency of the <i>Planck</i> data. Astronomy and Astrophysics, 2014, 571, A31. | 2.1 | 69 |
| 88 | <i>Planck</i> 2013 results. X. HFI energetic particle effects: characterization, removal, and simulation. Astronomy and Astrophysics, 2014, 571, A10. | 2.1 | 68 |
| 89 | <i>Planck</i> intermediate results. XXI. Comparison of polarized thermal emission from Galactic dust at 353 GHz with interstellar polarization in the visible. Astronomy and Astrophysics, 2015, 576, A106. | 2.1 | 68 |
| 90 | <i>Planck</i> 2013 results. V. LFI calibration. Astronomy and Astrophysics, 2014, 571, A5. | 2.1 | 67 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | <i>Planck</i> intermediate results. XV. A study of anomalous microwave emission in Galactic clouds. <i>Astronomy and Astrophysics</i> , 2014, 565, A103. | 2.1 | 67 |
| 92 | <i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A129. | 2.1 | 63 |
| 93 | CHARACTERIZATION OF THE BICEP TELESCOPE FOR HIGH-PRECISION COSMIC MICROWAVE BACKGROUND POLARIMETRY. <i>Astrophysical Journal</i> , 2010, 711, 1141-1156. | 1.6 | 62 |
| 94 | Planck early results. XIV. ERCSC validation and extreme radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A14. | 2.1 | 61 |
| 95 | CMB polarization can constrain cosmology better than CMB temperature. <i>Physical Review D</i> , 2014, 90, . | 1.6 | 61 |
| 96 | <i>Planck</i> intermediate results. XIV. Dust emission at millimetre wavelengths in the Galactic plane. <i>Astronomy and Astrophysics</i> , 2014, 564, A45. | 2.1 | 55 |
| 97 | <i>Planck</i> 2013 results. III. LFI systematic uncertainties. <i>Astronomy and Astrophysics</i> , 2014, 571, A3. | 2.1 | 54 |
| 98 | Self-calibration of BICEP1 three-year data and constraints on astrophysical polarization rotation. <i>Physical Review D</i> , 2014, 89, . | 1.6 | 53 |
| 99 | <i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A133. | 2.1 | 52 |
| 100 | DEGREE-SCALE COSMIC MICROWAVE BACKGROUND POLARIZATION MEASUREMENTS FROM THREE YEARS OF BICEP1 DATA. <i>Astrophysical Journal</i> , 2014, 783, 67. | 1.6 | 51 |
| 101 | Making sky maps from Planck data. <i>Astronomy and Astrophysics</i> , 2007, 467, 761-775. | 2.1 | 45 |
| 102 | Search for Non-Gaussian Signals in the BOOMERANG Maps: Pixel-Space Analysis. <i>Astrophysical Journal</i> , 2002, 572, L27-L31. | 1.6 | 43 |
| 103 | Gabor transforms on the sphere with applications to CMB power spectrum estimation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 336, 1304-1328. | 1.6 | 42 |
| 104 | Unbiased estimation of an angular power spectrum. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 001-001. | 1.9 | 41 |
| 105 | <i>Planck</i> 2013 results. IV. Low Frequency Instrument beams and window functions. <i>Astronomy and Astrophysics</i> , 2014, 571, A4. | 2.1 | 41 |
| 106 | High-Latitude Galactic Dust Emission in the BOOMERANG Maps. <i>Astrophysical Journal</i> , 2001, 553, L93-L96. | 1.6 | 39 |
| 107 | <i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2015, 580, A13. | 2.1 | 37 |
| 108 | The Robinson Gravitational Wave Background Telescope (BICEP): a bolometric large angular scale CMB polarimeter. , 2006, 6275, 508. | | 36 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | <i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A130. | 2.1 | 36 |
| 110 | The trispectrum of the cosmic microwave background on subdegree angular scales: an analysis of the BOOMERanG data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 343, 284-292. | 1.6 | 35 |
| 111 | BICEP: a large angular scale CMB polarimeter. , 2003, 4843, 284. | | 35 |
| 112 | TEASING: a fast and accurate approximation for the low multipole likelihood of the cosmic microwave background temperature. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 219-227. | 1.6 | 33 |
| 113 | Comparison of map-making algorithms for CMB experiments. <i>Astronomy and Astrophysics</i> , 2006, 449, 1311-1322. | 2.1 | 30 |
| 114 | The BOOMERANG North America Instrument: A Balloonborne Bolometric Radiometer Optimized for Measurements of Cosmic Background Radiation Anisotropies from 0.13 to 4o. <i>Astrophysical Journal, Supplement Series</i> , 2002, 138, 315-336. | 3.0 | 28 |
| 115 | QuickPol: Fast calculation of effective beam matrices for CMB polarization. <i>Astronomy and Astrophysics</i> , 2017, 598, A25. | 2.1 | 26 |
| 116 | Making maps from Planck LFI 30GHz data with asymmetric beams and cooler noise. <i>Astronomy and Astrophysics</i> , 2009, 493, 753-783. | 2.1 | 25 |
| 117 | Making maps from Planck LFI 30 GHz data. <i>Astronomy and Astrophysics</i> , 2007, 471, 361-380. | 2.1 | 25 |
| 118 | A MILLIMETER-WAVE GALACTIC PLANE SURVEY WITH THE BICEP POLARIMETER. <i>Astrophysical Journal</i> , 2011, 741, 81. | 1.6 | 24 |
| 119 | BOOMERanG constraints on primordial non-Gaussianity from analytical Minkowski functionals. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 408, 1658-1665. | 1.6 | 20 |
| 120 | <i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A128. | 2.1 | 20 |
| 121 | <i>Planck</i> intermediate results. XII: Diffuse Galactic components in the Gould Belt system. <i>Astronomy and Astrophysics</i> , 2013, 557, A53. | 2.1 | 19 |
| 122 | Concept design of the LiteBIRD satellite for CMB B-mode polarization. , 2018, , . | | 19 |
| 123 | Searching for Non-Gaussian Signals in the BOOMERANG 2003 CMB Maps. <i>Astrophysical Journal</i> , 2007, 670, L73-L76. | 1.6 | 18 |
| 124 | <i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A132. | 2.1 | 15 |
| 125 | SCIENTIFIC VERIFICATION OF FARADAY ROTATION MODULATORS: DETECTION OF DIFFUSE POLARIZED GALACTIC EMISSION. <i>Astrophysical Journal</i> , 2013, 765, 64. | 1.6 | 14 |
| 126 | Measuring CMB polarization with Boomerang. <i>New Astronomy Reviews</i> , 2003, 47, 1057-1065. | 5.2 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | ELLIPTICITY ANALYSIS OF THE BOOMERanG CMB MAPS. International Journal of Modern Physics D, 2003, 12, 1859-1873. | 0.9 | 13 |
| 128 | <i>Planck</i> intermediate results. XVIII. The millimetre and sub-millimetre emission from planetary nebulae. Astronomy and Astrophysics, 2015, 573, A6. | 2.1 | 13 |
| 129 | Cosmic microwave background power spectrum estimation with the destriping technique. Monthly Notices of the Royal Astronomical Society, 2004, 353, 43-58. | 1.6 | 11 |
| 130 | SUBDEGREE SUNYAEV-ZEL'DOVICH SIGNAL FROM MULTIFREQUENCY BOOMERANG OBSERVATIONS. Astrophysical Journal, 2009, 702, L61-L65. | 1.6 | 10 |
| 131 | Observations of the temperature and polarization anisotropies with Boomerang 2003. New Astronomy Reviews, 2006, 50, 945-950. | 5.2 | 9 |
| 132 | CMB polarimetry with BICEP: instrument characterization, calibration, and performance. Proceedings of SPIE, 2008, , . | 0.8 | 9 |
| 133 | Residual noise covariance for Planck low-resolution data analysis. Astronomy and Astrophysics, 2010, 522, A94. | 2.1 | 9 |
| 134 | ELLIPTICITY OF LARGE SPOTS IN CMB ANISOTROPY MAPS. Modern Physics Letters A, 2005, 20, 491-498. | 0.5 | 7 |
| 135 | Simulations of the microwave sky and of its "observations". Space Science Reviews, 1995, 74, 37-43. | 3.7 | 6 |
| 136 | Absolute polarization angle calibration using polarized diffuse Galactic emission observed by BICEP. Proceedings of SPIE, 2010, , . | 0.8 | 6 |
| 137 | COSMOLOGY: A New Window to the Early Universe. Science, 2002, 298, 1349-1350. | 6.0 | 4 |
| 138 | Fast quadratic power spectrum estimators and the E-B decomposition. New Astronomy Reviews, 2003, 47, 995-1000. | 5.2 | 4 |
| 139 | Efficient data structures for masks on 2D grids. Astronomy and Astrophysics, 2015, 580, A132. | 2.1 | 4 |
| 140 | Fast estimation of polarized CMB power spectra. New Astronomy Reviews, 2003, 47, 845-848. | 5.2 | 3 |
| 141 | Searching for non-Gaussian signals in the BOOMERanG 2003 CMB map: Preliminary results. New Astronomy Reviews, 2007, 51, 250-255. | 5.2 | 3 |
| 142 | Faint galaxy counts and diffuse backgrounds in the submm/mm range. AIP Conference Proceedings, 1996, , . | 0.3 | 2 |
| 143 | CMB polarization with Boomerang 2003. New Astronomy Reviews, 2007, 51, 244-249. | 5.2 | 2 |
| 144 | Probing primordial non Gaussianity in the BOOMERanG CMB maps: an analysis based on analytical Minkowski functionals. Nuclear Physics, Section B, Proceedings Supplements, 2009, 194, 278-286. | 0.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Breaking the degeneracy between polarization efficiency and cosmological parameters in CMB experiments. <i>Physical Review D</i> , 2021, 104, . | 1.6 | 2 |
| 146 | BOOMERANG returns. <i>New Astronomy Reviews</i> , 2003, 47, 733-740. | 5.2 | 1 |
| 147 | BOOMERanG results. <i>Advances in Space Research</i> , 2005, 36, 1064-1069. | 1.2 | 1 |
| 148 | The millimeter sky as seen with BOOMERanG. <i>New Astronomy Reviews</i> , 2007, 51, 236-243. | 5.2 | 1 |
| 149 | Making 3D movies of Northern Lights. <i>Journal of Space Weather and Space Climate</i> , 2017, 7, A24. | 1.1 | 1 |