

Lung-Yih Chiang

List of Publications by Year in descending order

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12315
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#	ARTICLE	IF	CITATIONS
1	Excessive Shift of the CMB Acoustic Peaks of the Cold Spot Area. <i>Astrophysical Journal</i> , 2018, 861, 8.	1.6	1
2	<i>Planck</i> 2013 results. XXXII. The updated <i>Planck</i> catalogue of Sunyaev-Zeldovich sources. <i>Astronomy and Astrophysics</i> , 2015, 581, A14.	2.1	80
3	<i>Planck</i> 2013 results. XIV. Zodiacal emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A14.	2.1	90
4	<i>Planck</i> 2013 results. VI. High Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A6.	2.1	103
5	<i>Planck</i> 2013 results. X. HFI energetic particle effects: characterization, removal, and simulation. <i>Astronomy and Astrophysics</i> , 2014, 571, A10.	2.1	68
6	<i>Planck</i> 2013 results. V. LFI calibration. <i>Astronomy and Astrophysics</i> , 2014, 571, A5.	2.1	67
7	<i>Planck</i> 2013 results. XXVII. Doppler boosting of the CMB: Eppur si muove. <i>Astronomy and Astrophysics</i> , 2014, 571, A27.	2.1	170
8	<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
9	<i>Planck</i> 2013 results. III. LFI systematic uncertainties. <i>Astronomy and Astrophysics</i> , 2014, 571, A3.	2.1	54
10	<i>Planck</i> 2013 results. XII. Diffuse component separation. <i>Astronomy and Astrophysics</i> , 2014, 571, A12.	2.1	216
11	<i>Planck</i> 2013 results. XIII. Galactic CO emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A13.	2.1	144
12	<i>Planck</i> 2013 results. XI. All-sky model of thermal dust emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A11.	2.1	566
13	ASYMMETRY AND NON-RANDOM ORIENTATION OF THE INFLIGHT EFFECTIVE BEAM PATTERN IN THE WMAP DATA. <i>Astrophysical Journal</i> , 2014, 785, 117.	1.6	0
14	<i>Planck</i> 2013 results. I. Overview of products and scientific results. <i>Astronomy and Astrophysics</i> , 2014, 571, A1.	2.1	948
15	<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
16	<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
17	<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
18	<i>Planck</i> 2013 results. XV. CMB power spectra and likelihood. <i>Astronomy and Astrophysics</i> , 2014, 571, A15.	2.1	364

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19	<i>Planck</i> 2013 results. XX. Cosmology from Sunyaev-Zeldovich cluster counts. <i>Astronomy and Astrophysics</i> , 2014, 571, A20.	2.1	465
20	<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
21	<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
22	<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
23	<i>Planck</i> 2013 results. XIX. The integrated Sachs-Wolfe effect. <i>Astronomy and Astrophysics</i> , 2014, 571, A19.	2.1	126
24	<i>Planck</i> 2013 results. IX. HFI spectral response. <i>Astronomy and Astrophysics</i> , 2014, 571, A9.	2.1	129
25	<i>Planck</i> 2013 results. XXIII. Isotropy and statistics of the CMB. <i>Astronomy and Astrophysics</i> , 2014, 571, A23.	2.1	367
26	<i>Planck</i> 2013 results. VII. HFI time response and beams. <i>Astronomy and Astrophysics</i> , 2014, 571, A7.	2.1	99
27	<i>Planck</i> 2013 results. VIII. HFI photometric calibration and mapmaking. <i>Astronomy and Astrophysics</i> , 2014, 571, A8.	2.1	107
28	<i>Planck</i> 2013 results. XVIII. The gravitational lensing-infrared background correlation. <i>Astronomy and Astrophysics</i> , 2014, 571, A18.	2.1	116
29	<i>Planck</i> 2013 results. IV. Low Frequency Instrument beams and window functions. <i>Astronomy and Astrophysics</i> , 2014, 571, A4.	2.1	41
30	<i>Planck</i> 2013 results. XXVI. Background geometry and topology of the Universe. <i>Astronomy and Astrophysics</i> , 2014, 571, A26.	2.1	91
31	<i>Planck</i> 2013 results. II. Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A2.	2.1	74
32	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2014, 561, A97.	2.1	80
33	<i>Planck</i> 2013 results. XVII. Gravitational lensing by large-scale structure. <i>Astronomy and Astrophysics</i> , 2014, 571, A17.	2.1	272
34	<i>Planck</i> 2013 results. XXIV. Constraints on primordial non-Gaussianity. <i>Astronomy and Astrophysics</i> , 2014, 571, A24.	2.1	350
35	<i>Planck</i> 2013 results. XXII. Constraints on inflation. <i>Astronomy and Astrophysics</i> , 2014, 571, A22.	2.1	806
36	<i>Planck</i> 2013 results. XVI. Cosmological parameters. <i>Astronomy and Astrophysics</i> , 2014, 571, A16.	2.1	4,703

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37	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 557, A52.	2.1	141
38	<i>Planck</i> intermediate results. XII: Diffuse Galactic components in the Gould Belt system. Astronomy and Astrophysics, 2013, 557, A53.	2.1	19
39	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 554, A140.	2.1	101
40	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A128.	2.1	20
41	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A130.	2.1	36
42	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A131.	2.1	276
43	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 554, A139.	2.1	106
44	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A129.	2.1	63
45	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A132.	2.1	15
46	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A133.	2.1	52
47	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A134.	2.1	94
48	DIRECT MEASUREMENT OF THE ANGULAR POWER SPECTRUM OF COSMIC MICROWAVE BACKGROUND TEMPERATURE ANISOTROPIES IN THE <i>WMAP</i> DATA. Astrophysical Journal, 2012, 751, 43.	1.6	4
49	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2012, 543, A102.	2.1	50
50	<i>Planck</i> early results. XXI. Properties of the interstellar medium in the Galactic plane. Astronomy and Astrophysics, 2011, 536, A21.	2.1	119
51	<i>Planck</i> early results. XVIII. The power spectrum of cosmic infrared background anisotropies. Astronomy and Astrophysics, 2011, 536, A18.	2.1	180
52	<i>Planck</i> early results. XIII. Statistical properties of extragalactic radio sources in the <i>Planck</i> Early Release Compact Source Catalogue. Astronomy and Astrophysics, 2011, 536, A13.	2.1	103
53	<i>Planck</i> early results. XVII. Origin of the submillimetre excess dust emission in the Magellanic Clouds. Astronomy and Astrophysics, 2011, 536, A17.	2.1	123
54	<i>Planck</i> early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. Astronomy and Astrophysics, 2011, 536, A12.	2.1	100

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55	<i>Planck</i> early results. II. The thermal performance of <i>Planck</i>. Astronomy and Astrophysics, 2011, 536, A2.	2.1	91
56	<i>Planck</i> early results. XX. New light on anomalous microwave emission from spinning dust grains. Astronomy and Astrophysics, 2011, 536, A20.	2.1	155
57	<i>Planck</i> early results. XXV. Thermal dust in nearby molecular clouds. Astronomy and Astrophysics, 2011, 536, A25.	2.1	184
58	<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
59	<i>Planck</i> early results. XXIII. The first all-sky survey of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A23.	2.1	152
60	<i>Planck</i> early results. XVI. The <i>Planck</i> view of nearby galaxies. Astronomy and Astrophysics, 2011, 536, A16.	2.1	74
61	<i>Planck</i> early results. VII. The Early Release Compact Source Catalogue. Astronomy and Astrophysics, 2011, 536, A7.	2.1	224
62	<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. Astronomy and Astrophysics, 2011, 536, A19.	2.1	314
63	<i>Planck</i> early results. XXIV. Dust in the diffuse interstellar medium and the Galactic halo. Astronomy and Astrophysics, 2011, 536, A24.	2.1	179
64	<i>Planck</i> early results. X. Statistical analysis of Sunyaev-Zeldovich scaling relations for X-ray galaxy clusters. Astronomy and Astrophysics, 2011, 536, A10.	2.1	124
65	<i>Planck</i> early results. XI. Calibration of the local galaxy cluster Sunyaev-Zeldovich scaling relations. Astronomy and Astrophysics, 2011, 536, A11.	2.1	174
66	Planck early results. XIV. ERCSC validation and extreme radio sources. Astronomy and Astrophysics, 2011, 536, A14.	2.1	61
67	<i>Planck</i> early results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. Astronomy and Astrophysics, 2011, 536, A8.	2.1	335
68	<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
69	<i>Planck</i> early results. XV. Spectral energy distributions and radio continuum spectra of northern extragalactic radio sources. Astronomy and Astrophysics, 2011, 536, A15.	2.1	93
70	<i>Planck</i> early results. I. The <i>Planck</i> mission. Astronomy and Astrophysics, 2011, 536, A1.	2.1	394
71	CROSS-POWER SPECTRUM AND ITS APPLICATION ON WINDOW FUNCTIONS IN THE <i>WILKINSON MICROWAVE ANISOTROPY PROBE</i> DATA. Astrophysical Journal, 2011, 738, 188.	1.6	4
72	THE GAUSSIAN LEGENDRE SKY PIXELIZATION FOR THE CMB POLARIZATION (GLESP-POL) ERRORS DUE TO PIXELIZATION OF THE CMB SKY. International Journal of Modern Physics D, 2011, 20, 1053-1078.	0.9	41

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73	Fractal Structure of Isothermal Lines and Loops on the Cosmic Microwave Background. Journal of the Physical Society of Japan, 2011, 80, 074003.	0.7	11
74	<i>Planck</i> early results. IX. <i>XMM-Newton</i> follow-up for validation of <i>Planck</i> cluster candidates. Astronomy and Astrophysics, 2011, 536, A9.	2.1	126
75	<i>Planck</i> pre-launch status: The <i>Planck</i> mission. Astronomy and Astrophysics, 2010, 520, A1.	2.1	268
76	COSMIC COVARIANCE AND THE LOW QUADRUPOLE ANISOTROPY OF THE <i>WILKINSON MICROWAVE ANISOTROPY PROBE</i> (<i>WMAP</i>) DATA. Astrophysical Journal, 2009, 694, 339-343.	1.6	7
77	COSMIC COVARIANCE AND THE LOW QUADRUPOLE ANISOTROPY IN THE WMAP DATA. Modern Physics Letters A, 2008, 23, 1489-1497.	0.5	7
78	The one-dimensional Fourier representation and large angular scale foreground contamination in the three-year Wilkinson Microwave Anisotropy Probe data. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 021-021.	1.9	16
79	Departure from Gaussianity of the Cosmic Microwave Background Temperature Anisotropies in the Three-Year WMAP Data. Astrophysical Journal, 2007, 664, 8-13.	1.6	38
80	Phase analysis of the cosmic microwave background from incomplete sky coverage. Monthly Notices of the Royal Astronomical Society: Letters, 2007, 380, L71-L74.	1.2	8
81	On the antenna beam shape reconstruction using planet transit. Astrophysical Bulletin, 2007, 62, 285-295.	0.3	6
82	Correlations from Galactic Foregrounds in the First-Year Wilkinson Microwave Anisotropy Probe Data. Astrophysical Journal, 2006, 642, 617-624.	1.6	11
83	AUTO- AND CROSS-CORRELATION OF PHASES OF THE WHOLE-SKY CMB AND FOREGROUND MAPS FROM THE 1-YEAR WMAP DATA. International Journal of Modern Physics D, 2006, 15, 1283-1298.	0.9	17
84	ON THE LINEAR FILTERS FOR POINT SOURCE EXTRACTION OF THE PLANCK MISSION. International Journal of Modern Physics D, 2005, 14, 1251-1272.	0.9	1
85	FOREGROUND ANALYSIS FROM THE 1-YEAR WILKINSON MICROWAVE ANISOTROPY PROBE (WMAP) DATA. International Journal of Modern Physics D, 2005, 14, 1273-1292.	0.9	17
86	GAUSSIAN LEGENDRE SKY PIXELIZATION (GLESP) FOR CMB MAPS. International Journal of Modern Physics D, 2005, 14, 275-290.	0.9	211
87	Statistics of phase correlations as a test for non-Gaussianity of the CMB maps. Physical Review D, 2005, 72, .	1.6	31
88	Antimatter from cosmological baryogenesis and the anisotropies and polarization of CMB radiation. Physical Review D, 2004, 69, .	1.6	8
89	Late reionizations of the Universe and their manifestation in the WMAP and future Planck data. Monthly Notices of the Royal Astronomical Society, 2004, 347, 795-801.	1.6	19
90	Spawning and merging of Fourier modes and phase coupling in the cosmological density bispectrum. Monthly Notices of the Royal Astronomical Society, 2004, 350, 1310-1321.	1.6	5

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91	Primordial Magnetic Field and Non-Gaussianity of the One-Year Wilkinson Microwave Anisotropy Probe Data. <i>Astrophysical Journal</i> , 2004, 615, 45-54.	1.6	59
92	The Robustness of Phase Mapping as a Non-Gaussianity Test. <i>Astrophysical Journal</i> , 2004, 602, L1-L4.	1.6	36
93	Non-Gaussianity of the Derived Maps from the First-Year Wilkinson Microwave Anisotropy Probe Data. <i>Astrophysical Journal</i> , 2003, 590, L65-L68.	1.6	140
94	An adaptive filter for the construction of the Planck Compact Source Catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 335, 1054-1060.	1.6	18
95	Return mapping of phases and the analysis of the gravitational clustering hierarchy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 337, 488-494.	1.6	40
96	Asymmetry of the PLANCK antenna beam shape and its manifestation in the CMB data. <i>Astronomy and Astrophysics</i> , 2002, 392, 369-376.	2.1	9
97	The importance of Fourier phases for the morphology of gravitational clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 325, 405-411.	1.6	28
98	Phase information and the evolution of cosmological density perturbations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 311, 809-824.	1.6	58
99	Characterizing the nonlinear growth of large-scale structure in the Universe. <i>Nature</i> , 2000, 406, 376-378.	13.7	66
100	Non-local scaling in two-dimensional gravitational clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 293, L68-L72.	1.6	8
101	Non-Linearity and Non-Gaussianity Through Phase Information. , 0, , 289-295.		1