

# Lung-Yih Chiang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10193216/publications.pdf>

Version: 2024-02-01

101  
papers

17,558  
citations

18465

62  
h-index

33869

99  
g-index

101  
all docs

101  
docs citations

101  
times ranked

12315  
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	<i>Planck</i> 2013 results. I. Overview of products and scientific results. <i>Astronomy and Astrophysics</i> , 2014, 571, A1.	2.1	948
3	<i>Planck</i> 2013 results. XXII. Constraints on inflation. <i>Astronomy and Astrophysics</i> , 2014, 571, A22.	2.1	806
4	<i>Planck</i> 2013 results. XI. All-sky model of thermal dust emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A11.	2.1	566
5	<i>Planck</i> 2013 results. XX. Cosmology from Sunyaev-Zeldovich cluster counts. <i>Astronomy and Astrophysics</i> , 2014, 571, A20.	2.1	465
6	<i>Planck</i> early results. I. The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2011, 536, A1.	2.1	394
7	<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
8	<i>Planck</i> 2013 results. XXIII. Isotropy and statistics of the CMB. <i>Astronomy and Astrophysics</i> , 2014, 571, A23.	2.1	367
9	<i>Planck</i> 2013 results. XV. CMB power spectra and likelihood. <i>Astronomy and Astrophysics</i> , 2014, 571, A15.	2.1	364
10	<i>Planck</i> 2013 results. XXIV. Constraints on primordial non-Gaussianity. <i>Astronomy and Astrophysics</i> , 2014, 571, A24.	2.1	350
11	<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
12	<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
13	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A131.	2.1	276
14	<i>Planck</i> 2013 results. XVII. Gravitational lensing by large-scale structure. <i>Astronomy and Astrophysics</i> , 2014, 571, A17.	2.1	272
15	<i>Planck</i> pre-launch status: The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2010, 520, A1.	2.1	268
16	<i>Planck</i> early results. VII. The Early Release Compact Source Catalogue. <i>Astronomy and Astrophysics</i> , 2011, 536, A7.	2.1	224
17	<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
18	<i>Planck</i> 2013 results. XII. Diffuse component separation. <i>Astronomy and Astrophysics</i> , 2014, 571, A12.	2.1	216

#	ARTICLE	IF	CITATIONS
19	GAUSSâ€™ LEGENDRE SKY PIXELIZATION (GLESP) FOR CMB MAPS. International Journal of Modern Physics D, 2005, 14, 275-290.	0.9	211
20	<i>Planck</i> 2013 results. XXX. Cosmic infrared background measurements and implications for star formation. Astronomy and Astrophysics, 2014, 571, A30.	2.1	210
21	<i>Planck</i> early results. XXV. Thermal dust in nearby molecular clouds. Astronomy and Astrophysics, 2011, 536, A25.	2.1	184
22	<i>Planck</i> early results. XVIII. The power spectrum of cosmic infrared background anisotropies. Astronomy and Astrophysics, 2011, 536, A18.	2.1	180
23	<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
24	<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
25	<i>Planck</i> 2013 results. XXVII. Doppler boosting of the CMB: Eppur si muove. Astronomy and Astrophysics, 2014, 571, A27.	2.1	170
26	<i>Planck</i> 2013 results. XXVIII. The <i>Planck</i> Catalogue of Compact Sources. Astronomy and Astrophysics, 2014, 571, A28.	2.1	162
27	<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
28	<i>Planck</i> early results. XXIII. The first all-sky survey of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A23.	2.1	152
29	<i>Planck</i> 2013 results. XIII. Galactic CO emission. Astronomy and Astrophysics, 2014, 571, A13.	2.1	144
30	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 557, A52.	2.1	141
31	Non-Gaussianity of the Derived Maps from the First-Year Wilkinson Microwave Anisotropy Probe Data. Astrophysical Journal, 2003, 590, L65-L68.	1.6	140
32	<i>Planck</i> 2013 results. XXI. Power spectrum and high-order statistics of the <i>Planck</i> all-sky Compton parameter map. Astronomy and Astrophysics, 2014, 571, A21.	2.1	133
33	<i>Planck</i> 2013 results. IX. HFI spectral response. Astronomy and Astrophysics, 2014, 571, A9.	2.1	129
34	<i>Planck</i> 2013 results. XIX. The integrated Sachs-Wolfe effect. Astronomy and Astrophysics, 2014, 571, A19.	2.1	126
35	<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
36	<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

#	ARTICLE	IF	CITATIONS
37	<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
38	<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
39	<i>Planck</i> 2013 results. XVIII. The gravitational lensing-infrared background correlation. <i>Astronomy and Astrophysics</i> , 2014, 571, A18.	2.1	116
40	<i>Planck</i> 2013 results. VIII. HFI photometric calibration and mapmaking. <i>Astronomy and Astrophysics</i> , 2014, 571, A8.	2.1	107
41	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 554, A139.	2.1	106
42	<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
43	<i>Planck</i> 2013 results. VI. High Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A6.	2.1	103
44	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 554, A140.	2.1	101
45	<i>Planck</i> early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 536, A12.	2.1	100
46	<i>Planck</i> 2013 results. VII. HFI time response and beams. <i>Astronomy and Astrophysics</i> , 2014, 571, A7.	2.1	99
47	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A134.	2.1	94
48	<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
49	<i>Planck</i> early results. II. The thermal performance of <i>Planck</i> . <i>Astronomy and Astrophysics</i> , 2011, 536, A2.	2.1	91
50	<i>Planck</i> 2013 results. XXVI. Background geometry and topology of the Universe. <i>Astronomy and Astrophysics</i> , 2014, 571, A26.	2.1	91
51	<i>Planck</i> 2013 results. XIV. Zodiacal emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A14.	2.1	90
52	<i>Planck</i> early results. XXII. The submillimetre properties of a sample of Galactic cold clumps. <i>Astronomy and Astrophysics</i> , 2011, 536, A22.	2.1	88
53	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2014, 561, A97.	2.1	80
54	<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

#	ARTICLE	IF	CITATIONS
55	<i>Planck</i> early results. XVI. The <i>Planck</i> view of nearby galaxies. <i>Astronomy and Astrophysics</i> , 2011, 536, A16.	2.1	74
56	<i>Planck</i> 2013 results. II. Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A2.	2.1	74
57	<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 $z \approx 1$ . <i>Astronomy and Astrophysics</i> , 2011, 536, A26.	2.1	72
58	<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
59	<i>Planck</i> 2013 results. V. LFI calibration. <i>Astronomy and Astrophysics</i> , 2014, 571, A5.	2.1	67
60	<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
61	Characterizing the nonlinear growth of large-scale structure in the Universe. <i>Nature</i> , 2000, 406, 376-378.	13.7	66
62	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A129.	2.1	63
63	<i>Planck</i> early results. XIV. ERCSC validation and extreme radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A14.	2.1	61
64	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
65	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
66	<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
67	<i>Planck</i> 2013 results. III. LFI systematic uncertainties. <i>Astronomy and Astrophysics</i> , 2014, 571, A3.	2.1	54
68	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A133.	2.1	52
69	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2012, 543, A102.	2.1	50
70	THE GAUSS-LEGENDRE SKY PIXELIZATION FOR THE CMB POLARIZATION (GLESP-POL) ERRORS DUE TO PIXELIZATION OF THE CMB SKY. <i>International Journal of Modern Physics D</i> , 2011, 20, 1053-1078.	0.9	41
71	<i>Planck</i> 2013 results. IV. Low Frequency Instrument beams and window functions. <i>Astronomy and Astrophysics</i> , 2014, 571, A4.	2.1	41
72	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

#	ARTICLE	IF	CITATIONS
73	Departure from Gaussianity of the Cosmic Microwave Background Temperature Anisotropies in the Three-Year WMAP Data. <i>Astrophysical Journal</i> , 2007, 664, 8-13.	1.6	38
74	The Robustness of Phase Mapping as a Non-Gaussianity Test. <i>Astrophysical Journal</i> , 2004, 602, L1-L4.	1.6	36
75	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A130.	2.1	36
76	Statistics of phase correlations as a test for non-Gaussianity of the CMB maps. <i>Physical Review D</i> , 2005, 72, .	1.6	31
77	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
78	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A128.	2.1	20
79	Late reionizations of the Universe and their manifestation in the WMAP and future Planck data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 347, 795-801.	1.6	19
80	<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
81	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
82	FOREGROUND ANALYSIS FROM THE 1-YEAR WILKINSON MICROWAVE ANISOTROPY PROBE (WMAP) DATA. <i>International Journal of Modern Physics D</i> , 2005, 14, 1273-1292.	0.9	17
83	AUTO- AND CROSS-CORRELATION OF PHASES OF THE WHOLE-SKY CMB AND FOREGROUND MAPS FROM THE 1-YEAR WMAP DATA. <i>International Journal of Modern Physics D</i> , 2006, 15, 1283-1298.	0.9	17
84	The one-dimensional Fourier representation and large angular scale foreground contamination in the three-year Wilkinson Microwave Anisotropy Probe data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007, 2007, 021-021.	1.9	16
85	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A132.	2.1	15
86	Correlations from Galactic Foregrounds in the First-Year Wilkinson Microwave Anisotropy Probe Data. <i>Astrophysical Journal</i> , 2006, 642, 617-624.	1.6	11
87	Fractal Structure of Isothermal Lines and Loops on the Cosmic Microwave Background. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 074003.	0.7	11
88	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
89	Non-local scaling in two-dimensional gravitational clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 293, L68-L72.	1.6	8
90	Antimatter from cosmological baryogenesis and the anisotropies and polarization of CMB radiation. <i>Physical Review D</i> , 2004, 69, .	1.6	8

#	ARTICLE	IF	CITATIONS
91	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
92	COSMIC COVARIANCE AND THE LOW QUADRUPOLE ANISOTROPY IN THE WMAP DATA. Modern Physics Letters A, 2008, 23, 1489-1497.	0.5	7
93	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
94	On the antenna beam shape reconstruction using planet transit. Astrophysical Bulletin, 2007, 62, 285-295.	0.3	6
95	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
96	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
97	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
98	Non-Linearity and Non-Gaussianity Through Phase Information. , 0, , 289-295.		1
99	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
100	Excessive Shift of the CMB Acoustic Peaks of the Cold Spot Area. Astrophysical Journal, 2018, 861, 8.	1.6	1
101	ASYMMETRY AND NON-RANDOM ORIENTATION OF THE INFLIGHT EFFECTIVE BEAM PATTERN IN THE WMAP DATA. Astrophysical Journal, 2014, 785, 117.	1.6	0