## Luigi Toffolatti

List of Publications by Year in descending order

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151 36,874 8
papers citations h-in

81 142
h-index g-index

153 153 all docs citations

153 times ranked 19180 citing authors

#	Article	IF	CITATIONS
1	Characterization of polarimetric and total intensity behaviour of a complete sample of PACO radio sources in the radio bands. Monthly Notices of the Royal Astronomical Society, 2018, 475, 1306-1322.	4.4	13
2	Statistics of the fractional polarization of extragalactic dusty sources in Planck HFI maps. Monthly Notices of the Royal Astronomical Society, 2017, 472, 628-635.	4.4	13
3	Statistics of the fractional polarization of compact radio sources in Planck maps. Monthly Notices of the Royal Astronomical Society, 2017, 469, 2401-2411.	4.4	24
4	Multifrequency polarimetry of a complete sample of PACO radio sources. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4085-4098.	4.4	16
5	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A28.	5.1	134
6	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A7.	5.1	94
7	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A10.	5.1	384
8	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A23.	5.1	89
9	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A12.	5.1	117
10	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A24.	5.1	525
11	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A6.	5.1	62
12	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A2.	5.1	79
13	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A8.	5.1	209
14	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A9.	5.1	182
15	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A5.	5.1	55
16	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A4.	5.1	56
17	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A18.	5.1	69
18	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A21.	5.1	114

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19	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A3.	5.1	53
20	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A19.	5.1	273
21	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A16.	5.1	338
22	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A20.	5.1	1,233
23	<i>Planck</i> ii>intermediate results. Astronomy and Astrophysics, 2016, 596, A105.	5.1	47
24	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A27.	5.1	535
25	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A1.	5.1	738
26	<i>Planck</i> iiintermediate results. Astronomy and Astrophysics, 2016, 596, A108.	5.1	375
27	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A14.	5.1	568
28	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A15.	5.1	360
29	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A25.	5.1	153
30	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A103.	5.1	89
31	<i>Planck</i> ii>intermediate results. Astronomy and Astrophysics, 2016, 596, A109.	5.1	185
32	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A13.	5.1	8,344
33	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A22.	5.1	274
34	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A106.	5.1	23
35	<i>Planck</i> ii>intermediate results. Astronomy and Astrophysics, 2016, 596, A104.	5.1	36
36	<i>Planck</i> iiintermediate results. Astronomy and Astrophysics, 2016, 596, A110.	5.1	64

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37	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A26.	5.1	182
38	<i>Planck</i> iiintermediate results. Astronomy and Astrophysics, 2016, 596, A107.	5.1	359
39	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A17.	5.1	440
40	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A11.	5.1	613
41	<i>Planck</i> intermediate results. XXVI. Optical identification and redshifts of <i>Planck</i> clusters with the RTT150 telescope. Astronomy and Astrophysics, 2015, 582, A29.	5.1	46
42	<i>Planck</i> 2013 results. XXXII. The updated <i>Planck</i> catalogue of Sunyaev-Zeldovich sources. Astronomy and Astrophysics, 2015, 581, A14.	5.1	80
43	<i>Planck</i> intermediate results. XIX. An overview of the polarized thermal emission from Galactic dust. Astronomy and Astrophysics, 2015, 576, A104.	5.1	296
44	<i>Planck</i> intermediate results. XX. Comparison of polarized thermal emission from Galactic dust with simulations of MHD turbulence. Astronomy and Astrophysics, 2015, 576, A105.	5.1	119
45	<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.	5.1	68
46	<i>Planck</i> intermediate results. XVIII. The millimetre and sub-millimetre emission from planetary nebulae. Astronomy and Astrophysics, 2015, 573, A6.	5.1	13
47	<i>Planck</i> intermediate results. XXII. Frequency dependence of thermal emission from Galactic dust in intensity and polarization. Astronomy and Astr A107.	ro <b>p</b> hysics,	2 <b>015</b> , 576
48	Joint Analysis of BICEP2/ <i>Keck Array</i> and <i>Planck</i> Data. Physical Review Letters, 2015, 114, 101301.	7.8	819
49	Extragalactic sources in Cosmic Microwave Background maps. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 018-018.	5.4	13
50	Is elegance enough?. Astronomy and Geophysics, 2015, 56, 5.9-5.10.	0.2	0
51	STATISTICAL PROPERTIES OF RADIO AND FAR INFRARED EXTRAGALACTIC SOURCES AT MM/SUB-MM WAVELENGTHS., 2015,,.		0
52	RECENT DEVELOPMENTS IN ASTROPHYSICAL AND COSMOLOGICAL EXPLOITATION OF MICROWAVE SURVEYS. , 2015, , .		0
53	<i>Planck</i> 2013 results. XIV. Zodiacal emission. Astronomy and Astrophysics, 2014, 571, A14.	5.1	90
54	<i>Planck</i> 2013 results. X. HFI energetic particle effects: characterization, removal, and simulation. Astronomy and Astrophysics, 2014, 571, A10.	5.1	68

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55	<i>Planck</i> 2013 results. XXXI. Consistency of the <i>Planck</i> data. Astronomy and Astrophysics, 2014, 571, A31.	5.1	69
56	<i>Planck</i> 2013 results. V. LFI calibration. Astronomy and Astrophysics, 2014, 571, A5.	5.1	67
57	<i>Planck</i> 2013 results. XXVII. Doppler boosting of the CMB: Eppur si muove. Astronomy and Astrophysics, 2014, 571, A27.	5.1	170
58	<i>Planck</i> intermediate results. XV. A study of anomalous microwave emission in Galactic clouds. Astronomy and Astrophysics, 2014, 565, A103.	5.1	67
59	<i>Planck</i> 2013 results. III. LFI systematic uncertainties. Astronomy and Astrophysics, 2014, 571, A3.	5.1	54
60	<i>Planck</i> 2013 results. XII. Diffuse component separation. Astronomy and Astrophysics, 2014, 571, A12.	5.1	216
61	<i>Planck</i> 2013 results. XIII. Galactic CO emission. Astronomy and Astrophysics, 2014, 571, A13.	5.1	144
62	<i>Planck</i> 2013 results. XI. All-sky model of thermal dust emission. Astronomy and Astrophysics, 2014, 571, A11.	5.1	566
63	PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 006-006.	5.4	138
64	<i>Planck</i> 2013 results. I. Overview of products and scientific results. Astronomy and Astrophysics, 2014, 571, A1.	5.1	948
65	<i>Planck</i> 2013 results. XXX. Cosmic infrared background measurements and implications for star formation. Astronomy and Astrophysics, 2014, 571, A30.	5.1	210
66	<i>Planck</i> 2013 results. XXV. Searches for cosmic strings and other topological defects. Astronomy and Astrophysics, 2014, 571, A25.	5.1	223
67	<i>Planck</i> intermediate results. XIV. Dust emission at millimetre wavelengths in the Galactic plane. Astronomy and Astrophysics, 2014, 564, A45.	5.1	55
68	Planck intermediate results. Astronomy and Astrophysics, 2014, 566, A55.	5.1	134
69	<i>Planck</i> 2013 results. XV. CMB power spectra and likelihood. Astronomy and Astrophysics, 2014, 571, A15.	5.1	364
70	<i>Planck</i> ≥2013 results. XX. Cosmology from Sunyaev–Zeldovich cluster counts. Astronomy and Astrophysics, 2014, 571, A20.	5.1	465
71	<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.	5.1	133
72	<i>Planck</i> 2013 results. XXIX. The <i>Planck</i> catalogue of Sunyaev-Zeldovich sources. Astronomy and Astrophysics, 2014, 571, A29.	5.1	380

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73	<i>Planck</i> 2013 results. XXVIII. The <i>Planck</i> Catalogue of Compact Sources. Astronomy and Astrophysics, 2014, 571, A28.	5.1	162
74	<i>Planck</i> 2013 results. XIX. The integrated Sachs-Wolfe effect. Astronomy and Astrophysics, 2014, 571, A19.	5.1	126
75	<i>Planck</i> 2013 results. XXIII. Isotropy and statistics of the CMB. Astronomy and Astrophysics, 2014, 571, A23.	5.1	367
76	<i>Planck</i> 2013 results. XVIII. The gravitational lensing-infrared background correlation. Astronomy and Astrophysics, 2014, 571, A18.	5.1	116
77	<i>Planck</i> 2013 results. IV. Low Frequency Instrument beams and window functions. Astronomy and Astrophysics, 2014, 571, A4.	5.1	41
78	<i>Planck</i> 2013 results. XXVI. Background geometry and topology of the Universe. Astronomy and Astrophysics, 2014, 571, A26.	5.1	91
79	<i>Planck</i> 2013 results. II. Low Frequency Instrument data processing. Astronomy and Astrophysics, 2014, 571, A2.	5.1	74
80	<i>Planck</i> 2013 results. XVII. Gravitational lensing by large-scale structure. Astronomy and Astrophysics, 2014, 571, A17.	5.1	272
81	<i>Planck</i> 2013 results. XXIV. Constraints on primordial non-Gaussianity. Astronomy and Astrophysics, 2014, 571, A24.	5.1	350
82	<i>Planck</i> 2013 results. XXII. Constraints on inflation. Astronomy and Astrophysics, 2014, 571, A22.	5.1	806
83	<i>Planck</i> 2013 results. XVI. Cosmological parameters. Astronomy and Astrophysics, 2014, 571, A16.	5.1	4,703
84	Dust and star formation properties of a complete sample of local galaxies drawn from the Planck Early Release Compact Source Catalogue. Monthly Notices of the Royal Astronomical Society, 2013, 433, 695-711.	4.4	81
85	The local luminosity function of star-forming galaxies derived from the Planck Early Release Compact Source Catalogue. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1309-1323.	4.4	33
86	Forecasts on the contamination induced by unresolved point sources in primordial non-Gaussianity beyond Planck. Monthly Notices of the Royal Astronomical Society, 2013, 432, 728-742.	4.4	16
87	RECENT DEVELOPMENTS IN ASTROPHYSICAL AND COSMOLOGICAL EXPLOITATION OF MICROWAVE SURVEYS. International Journal of Modern Physics D, 2013, 22, 1330011.	2.1	6
88	<i>Planck</i> Âintermediate results. XII: Diffuse Galactic components in the Gould Belt system. Astronomy and Astrophysics, 2013, 557, A53.	5.1	19
89	The pre-launch <i>Planck</i> Sky Model: a model of sky emission at submillimetre to centimetre wavelengths. Astronomy and Astrophysics, 2013, 553, A96.	5.1	166
90	The Impact of Polarized Extragalactic Radio Sources on the Detection of CMB Anisotropies in Polarization. Advances in Astronomy, 2012, 2012, 1-17.	1.1	34

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91	Simultaneous <i>Planck </i> , <i>Swift </i> , and <i>Fermi </i> observations of X-ray and <i>γ </i> -ray selected blazars. Astronomy and Astrophysics, 2012, 541, A160.	5.1	166
92	<i>Planck</i> early results. XXI. Properties of the interstellar medium in the Galactic plane. Astronomy and Astrophysics, 2011, 536, A21.	5.1	119
93	<i>Planck</i> early results. XVIII. The power spectrum of cosmic infrared background anisotropies. Astronomy and Astrophysics, 2011, 536, A18.	5.1	180
94	<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.	5.1	103
95	<i>Planck</i> early results. XVII. Origin of the submillimetre excess dust emission in the Magellanic Clouds. Astronomy and Astrophysics, 2011, 536, A17.	5.1	123
96	<i>Planck</i> early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. Astronomy and Astrophysics, 2011, 536, A12.	5.1	100
97	<i>Planck</i> early results. II. The thermal performance of <i>Planck</i> . Astronomy and Astrophysics, 2011, 536, A2.	5.1	91
98	<i>Planck</i> early results. XX. New light on anomalous microwave emission from spinning dust grains. Astronomy and Astrophysics, 2011, 536, A20.	5.1	155
99	<i>Planck</i> early results. XXV. Thermal dust in nearby molecular clouds. Astronomy and Astrophysics, 2011, 536, A25.	5.1	184
100	<i>Planck</i> early results. XXII. The submillimetre properties of a sample of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A22.	5.1	88
101	<i>Planck</i> early results. XXIII. The first all-sky survey of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A23.	5.1	152
102	<i>Planck</i> early results. V. The Low Frequency Instrument data processing. Astronomy and Astrophysics, 2011, 536, A5.	5.1	77
103	High-frequency predictions for number counts and spectral properties of extragalactic radio sources. New evidence of a break at mm wavelengths in spectra of bright blazar sources. Astronomy and Astrophysics, 2011, 533, A57.	5.1	83
104	<i>Planck</i> early results. XVI. The <i>Planck</i> view of nearby galaxies. Astronomy and Astrophysics, 2011, 536, A16.	5.1	74
105	<i>Planck</i> early results. VII. The Early Release Compact Source Catalogue. Astronomy and Astrophysics, 2011, 536, A7.	5.1	224
106	<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.	5.1	314
107	<i>Planck</i> early results. XXIV. Dust in the diffuse interstellar medium and the Galactic halo. Astronomy and Astrophysics, 2011, 536, A24.	5.1	179
108	<i>Planck</i> early results. X. Statistical analysis of Sunyaev-Zeldovich scaling relations for X-ray galaxy clusters. Astronomy and Astrophysics, 2011, 536, A10.	5.1	124

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109	<i>Planck</i> early results. XI. Calibration of the local galaxy cluster Sunyaev-Zeldovich scaling relations. Astronomy and Astrophysics, 2011, 536, A11.	5.1	174
110	Planckearly results. XIV. ERCSC validation and extreme radio sources. Astronomy and Astrophysics, 2011, 536, A14.	5.1	61
111	<i>Planck</i> early results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. Astronomy and Astrophysics, 2011, 536, A8.	5.1	335
112	<i>Planck</i> early results. XXVI. Detection with <i>Planck</i> and confirmation by <i>XMM-Newton</i> of PLCKÂG266.6–27.3, an exceptionally X-ray luminous and massive galaxy cluster at <i>z</i> Â-Â 1. Astronomy and Astrophysics, 2011, 536, A26.	5.1	72
113	<i>Planck</i> early results. XV. Spectral energy distributions and radio continuum spectra of northern extragalactic radio sources. Astronomy and Astrophysics, 2011, 536, A15.	5.1	93
114	<i>Planck</i> early results. I. The <i>Planck</i> mission. Astronomy and Astrophysics, 2011, 536, A1.	5.1	394
115	<i>Planck</i> early results. III. First assessment of the Low Frequency Instrument in-flight performance. Astronomy and Astrophysics, 2011, 536, A3.	5.1	108
116	<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.	5.1	126
117	<i>Planck</i> pre-launch status: The <i>Planck</i> mission. Astronomy and Astrophysics, 2010, 520, A1.	5.1	268
118	Nonblind Catalog of Extragalactic Point Sources from the Wilkinson Microwave Anisotropy Probe () Tj ETQq0 0 (	) rgBT /Ov 7.7	erlock 10 Tf 5
119	The Mexican hat wavelet family: application to point-source detection in cosmic microwave background maps. Monthly Notices of the Royal Astronomical Society, 2006, 369, 1603-1610.	4.4	102
120	Comparison of filters for the detection of point sources in Planck simulations. Monthly Notices of the Royal Astronomical Society, 2006, 370, 2047-2063.	4.4	63
121	SURVEYS OF EXTRAGALACTIC SOURCES WITH PLANCK. , 2006, , 45-54.		3
122	Predictions of the Angular Power Spectrum of Clustered Extragalactic Point Sources at Cosmic Microwave Background Frequencies from Flat and Allâ€Sky Twoâ€dimensional Simulations. Astrophysical Journal, 2005, 621, 1-14.	4.5	62
123	Effect of clustering on extragalactic source counts with low-resolution instruments. Monthly Notices of the Royal Astronomical Society, 2005, 358, 869-874.	4.4	36
124	Predictions for high-frequency radio surveys of extragalactic sources. Astronomy and Astrophysics, 2005, 431, 893-903.	5.1	214
125	Extragalactic source contributions to arcminute-scale Cosmic Microwave Background anisotropies. Astronomy and Astrophysics, 2005, 438, 475-480.	5.1	29
126	An α-stableÂapproach to the study of the P(D) distribution of unresolved point sources in CMB sky maps. Astronomy and Astrophysics, 2004, 424, 1081-1096.	5.1	27

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127	Predictions on the high-frequency polarization properties of extragalactic radio sources and implications for polarization measurements of the cosmic microwave background. Monthly Notices of the Royal Astronomical Society, 2004, 349, 1267-1277.	4.4	74
128	Predictions on the polarization of extragalactic radio sources at microwave frequencies. New Astronomy Reviews, 2003, 47, 1135-1141.	12.8	6
129	Point source detection using the Spherical Mexican Hat Wavelet on simulated all-skyPlanckmaps. Monthly Notices of the Royal Astronomical Society, 2003, 344, 89-104.	4.4	68
130	Contributions of Point Extragalactic Sources to the Cosmic Microwave Background Bispectrum. Astrophysical Journal, 2003, 598, 86-96.	4.5	35
131	Predicted Planck extragalactic point-source catalogue. Monthly Notices of the Royal Astronomical Society, 2001, 326, 181-191.	4.4	58
132	Combining maximum-entropy and the Mexican hat wavelet to reconstruct the microwave sky. Monthly Notices of the Royal Astronomical Society, 2001, 328, 1-16.	4.4	52
133	Isotropic wavelets: a powerful tool to extract point sources from cosmic microwave background maps. Monthly Notices of the Royal Astronomical Society, 2000, 315, 757-761.	4.4	82
134	Neural networks and the separation of cosmic microwave background and astrophysical signals in sky maps. Monthly Notices of the Royal Astronomical Society, 2000, 318, 769-780.	4.4	81
135	The Planck Surveyor mission: astrophysical prospects. , 1999, , .		22
136	The effect of point sources on satellite observations of the cosmic microwave background. Monthly Notices of the Royal Astronomical Society, 1999, 306, 232-246.	4.4	44
137	Wavelets applied to cosmic microwave background maps: a multiresolution analysis for denoising. Monthly Notices of the Royal Astronomical Society, 1999, 309, 672-680.	4.4	36
138	Analysis of CMB maps with 2D wavelets. Astronomy and Astrophysics, 1999, 140, 99-105.	2.1	13
139	Extragalactic source counts and contributions to the anisotropies of the cosmic microwave background: predictions for the Planck Surveyor mission. Monthly Notices of the Royal Astronomical Society, 1998, 297, 117-127.	4.4	218
140	Constraints on the cosmic star formation history from the far-infrared background. Monthly Notices of the Royal Astronomical Society, 1997, 287, L17-L20.	4.4	15
141	The extragalactic infrared background. Planetary and Space Science, 1995, 43, 1439-1447.	1.7	2
142	Clustering Properties of AGNs and their Contribution to the X-ray Background., 1994,, 129-130.		0
143	The subdegree angular structure of the X-ray sky as seen by the Ginga satellite. Monthly Notices of the Royal Astronomical Society, 1993, 260, 376-384.	4.4	10
144	Angular correlations of the X-ray background and clustering of extragalactic X-ray sources. Astrophysical Journal, 1993, 412, 56.	4.5	2

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145	Theoretical implications of the CMB spectral distortions. Astrophysics and Space Science Library, 1990, , 153-172.	2.7	2
146	Discrete source contributions to small-scale anisotropies of the microwave background. Astrophysical Journal, 1989, 344, 35.	4.5	84
147	Analysis of a complete sample of galaxies at Formula: the optical, radio and far-infrared luminosity functions. Monthly Notices of the Royal Astronomical Society, 1988, 233, 157-174.	4.4	7
148	Interpretation of deep counts of radio sources. Astrophysical Journal, 1987, 318, L15.	4.5	48
149	Reconstructing the Microwave Sky Using a Combined Maximum-Entropy and Mexican Hat Wavelet Analysis., 0,, 465-472.		1
150	Statistical properties of extragalactic sources in the New Extragalactic WMAP Point Source (NEWPS) catalogue. Monthly Notices of the Royal Astronomical Society, 0, 384, 711-718.	4.4	30
151	Extragalactic Compact Sources in the Planck Sky and Their Cosmological Implications. , 0, , .		1