

Jean-Luc Starck

List of Publications by Year in descending order

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350
papers

44,019
citations

2440

100
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203
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359
all docs

359
docs citations

359
times ranked

26117
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	THE LARGE AREA TELESCOPE ON THE <i>FERMI</i> GAMMA-RAY SPACE TELESCOPE MISSION. <i>Astrophysical Journal</i> , 2009, 697, 1071-1102.	1.6	3,048
3	The curvelet transform for image denoising. <i>IEEE Transactions on Image Processing</i> , 2002, 11, 670-684.	6.0	1,780
4	Sparse Solution of Underdetermined Systems of Linear Equations by Stagewise Orthogonal Matching Pursuit. <i>IEEE Transactions on Information Theory</i> , 2012, 58, 1094-1121.	1.5	1,257
5	The reversal of the star formation-density relation in the distant universe. <i>Astronomy and Astrophysics</i> , 2007, 468, 33-48.	2.1	1,253
6	<i>Planck</i> 2013 results. I. Overview of products and scientific results. <i>Astronomy and Astrophysics</i> , 2014, 571, A1.	2.1	948
7	FERMI LARGE AREA TELESCOPE FIRST SOURCE CATALOG. <i>Astrophysical Journal</i> , Supplement Series, 2010, 188, 405-436.	3.0	851
8	<i>Planck</i> 2013 results. XXII. Constraints on inflation. <i>Astronomy and Astrophysics</i> , 2014, 571, A22.	2.1	806
9	Image decomposition via the combination of sparse representations and a variational approach. <i>IEEE Transactions on Image Processing</i> , 2005, 14, 1570-1582.	6.0	798
10	Simultaneous cartoon and texture image inpainting using morphological component analysis (MCA). <i>Applied and Computational Harmonic Analysis</i> , 2005, 19, 340-358.	1.1	783
11	Measurement of the Cosmic Ray e^+ flux from 20 GeV to 1 TeV with the Fermi Large Area Telescope. <i>Physical Review Letters</i> , 2009, 102, 181101.	2.1	741
12	THE SPECTRAL ENERGY DISTRIBUTION OF <i>FERMI</i> BRIGHT BLAZARS. <i>Astrophysical Journal</i> , 2010, 716, 30-70.	1.6	741
13	<i>Planck</i> 2013 results. XI. All-sky model of thermal dust emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A11.	2.1	566
14	Fermi Observations of High-Energy Gamma-Ray Emission from GRB 080916C. <i>Science</i> , 2009, 323, 1688-1693.	6.0	523
15	<i>Planck</i> 2013 results. XX. Cosmology from Sunyaev-Zeldovich cluster counts. <i>Astronomy and Astrophysics</i> , 2014, 571, A20.	2.1	465
16	Spectrum of the Isotropic Diffuse Gamma-Ray Emission Derived from First-Year Fermi Large Area Telescope Data. <i>Physical Review Letters</i> , 2010, 104, 101101.	2.9	433
17	Gray and color image contrast enhancement by the curvelet transform. <i>IEEE Transactions on Image Processing</i> , 2003, 12, 706-717.	6.0	422
18	THE FIRST CATALOG OF ACTIVE GALACTIC NUCLEI DETECTED BY THE <i>FERMI</i> LARGE AREA TELESCOPE. <i>Astrophysical Journal</i> , 2010, 715, 429-457.	1.6	415

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19	The Undecimated Wavelet Decomposition and its Reconstruction. IEEE Transactions on Image Processing, 2007, 16, 297-309.	6.0	396
20	THE FIRST <i>FERMI</i> LARGE AREA TELESCOPE CATALOG OF GAMMA-RAY PULSARS. Astrophysical Journal, Supplement Series, 2010, 187, 460-494.	3.0	396
21	FERMI/LARGE AREA TELESCOPE BRIGHT GAMMA-RAY SOURCE LIST. Astrophysical Journal, Supplement Series, 2009, 183, 46-66.	3.0	394
22	<i>Planck</i> early results. I. The <i>Planck</i> mission. Astronomy and Astrophysics, 2011, 536, A1.	2.1	394
23	<i>Planck</i> 2013 results. XXIX. The <i>Planck</i> catalogue of Sunyaev-Zeldovich sources. Astronomy and Astrophysics, 2014, 571, A29.	2.1	380
24	<i>Planck</i> 2013 results. XXIII. Isotropy and statistics of the CMB. Astronomy and Astrophysics, 2014, 571, A23.	2.1	367
25	<i>Planck</i> 2013 results. XV. CMB power spectra and likelihood. Astronomy and Astrophysics, 2014, 571, A15.	2.1	364
26	<i>Planck</i> 2013 results. XXIV. Constraints on primordial non-Gaussianity. Astronomy and Astrophysics, 2014, 571, A24.	2.1	350
27	BRIGHT ACTIVE GALACTIC NUCLEI SOURCE LIST FROM THE FIRST THREE MONTHS OF THE <i>FERMI</i> LARGE AREA TELESCOPE ALL-SKY SURVEY. Astrophysical Journal, 2009, 700, 597-622.	1.6	349
28	Redundant Multiscale Transforms and Their Application for Morphological Component Separation. Advances in Imaging and Electron Physics, 2004, 132, 287-348.	0.1	336
29	<i>Planck</i> early results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. Astronomy and Astrophysics, 2011, 536, A8.	2.1	335
30	Deconvolution in Astronomy: A Review. Publications of the Astronomical Society of the Pacific, 2002, 114, 1051-1069.	1.0	320
31	<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
32	Wavelets, Ridgelets, and Curvelets for Poisson Noise Removal. IEEE Transactions on Image Processing, 2008, 17, 1093-1108.	6.0	303
33	Dark matter maps reveal cosmic scaffolding. Nature, 2007, 445, 286-290.	13.7	302
34	GAMMA-RAY LIGHT CURVES AND VARIABILITY OF BRIGHT <i>FERMI</i>-DETECTED BLAZARS. Astrophysical Journal, 2010, 722, 520-542.	1.6	292
35	<i>Planck</i> 2013 results. XVII. Gravitational lensing by large-scale structure. Astronomy and Astrophysics, 2014, 571, A17.	2.1	272
36	<i>Planck</i> pre-launch status: The <i>Planck</i> mission. Astronomy and Astrophysics, 2010, 520, A1.	2.1	268

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37	Detection of 16 Gamma-Ray Pulsars Through Blind Frequency Searches Using the Fermi LAT. <i>Science</i> , 2009, 325, 840-844.	6.0	264
38	Morphological Component Analysis: An Adaptive Thresholding Strategy. <i>IEEE Transactions on Image Processing</i> , 2007, 16, 2675-2681.	6.0	250
39	Inpainting and Zooming Using Sparse Representations. <i>Computer Journal</i> , 2008, 52, 64-79.	1.5	250
40	<i>Planck</i> early results. VII. The Early Release Compact Source Catalogue. <i>Astronomy and Astrophysics</i> , 2011, 536, A7.	2.1	224
41	<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
42	<i>Planck</i> 2013 results. XII. Diffuse component separation. <i>Astronomy and Astrophysics</i> , 2014, 571, A12.	2.1	216
43	Astronomical image representation by the curvelet transform. <i>Astronomy and Astrophysics</i> , 2003, 398, 785-800.	2.1	210
44	<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
45	Compressed Sensing in Astronomy. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2008, 2, 718-726.	7.3	201
46	Modulated High-Energy Gamma-Ray Emission from the Microquasar Cygnus X-3. <i>Science</i> , 2009, 326, 1512-1516.	6.0	193
47	A Population of Gamma-Ray Millisecond Pulsars Seen with the Fermi Large Area Telescope. <i>Science</i> , 2009, 325, 848-852.	6.0	190
48	Component separation methods for the PLANCK mission. <i>Astronomy and Astrophysics</i> , 2008, 491, 597-615.	2.1	189
49	Fermi Gamma-Ray Imaging of a Radio Galaxy. <i>Science</i> , 2010, 328, 725-729.	6.0	187
50	Light on dark matter with weak gravitational lensing. <i>IEEE Signal Processing Magazine</i> , 2010, 27, 76-85.	4.6	186
51	<i>Planck</i> early results. XXV. Thermal dust in nearby molecular clouds. <i>Astronomy and Astrophysics</i> , 2011, 536, A25.	2.1	184
52	<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
53	THE <i>FERMI</i>-LAT HIGH-LATITUDE SURVEY: SOURCE COUNT DISTRIBUTIONS AND THE ORIGIN OF THE EXTRAGALACTIC DIFFUSE BACKGROUND. <i>Astrophysical Journal</i> , 2010, 720, 435-453.	1.6	179
54	<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

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55	<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
56	<i>FERMI</i> OBSERVATIONS OF CASSIOPEIA AND CEPHEUS: DIFFUSE GAMMA-RAY EMISSION IN THE OUTER GALAXY. <i>Astrophysical Journal</i> , 2010, 710, 133-149.	1.6	172
57	Fermi Large Area Telescope Search for Photon Lines from 30 to 200 GeV and Dark Matter Implications. <i>Physical Review Letters</i> , 2010, 104, 091302.	2.9	166
58	<i>FERMI</i> DISCOVERY OF GAMMA-RAY EMISSION FROM NGC 1275. <i>Astrophysical Journal</i> , 2009, 699, 31-39.	1.6	165
59	<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
60	<i>FERMI</i> /LARGE AREA TELESCOPE DISCOVERY OF GAMMA-RAY EMISSION FROM A RELATIVISTIC JET IN THE NARROW-LINE QUASAR PMN J0948+0022. <i>Astrophysical Journal</i> , 2009, 699, 976-984.	1.6	161
61	A Proximal Iteration for Deconvolving Poisson Noisy Images Using Sparse Representations. <i>IEEE Transactions on Image Processing</i> , 2009, 18, 310-321.	6.0	156
62	<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
63	Sparsity and Morphological Diversity in Blind Source Separation. <i>IEEE Transactions on Image Processing</i> , 2007, 16, 2662-2674.	6.0	153
64	<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
65	Image Decomposition and Separation Using Sparse Representations: An Overview. <i>Proceedings of the IEEE</i> , 2010, 98, 983-994.	16.4	150
66	The XMM-LSS survey. Survey design and first results. <i>Journal of Cosmology and Astroparticle Physics</i> , 2004, 2004, 011-011.	1.9	148
67	Constraints on dark matter annihilation in clusters of galaxies with the Fermi large area telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 025-025.	1.9	145
68	SIMULTANEOUS OBSERVATIONS OF PKS 2155-304 WITH HESS, <i>FERMI</i> , <i>RXTE</i> , AND ATOM: SPECTRAL ENERGY DISTRIBUTIONS AND VARIABILITY IN A LOW STATE. <i>Astrophysical Journal</i> , 2009, 696, L150-L155.	1.6	144
69	<i>Planck</i> 2013 results. XIII. Galactic CO emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A13.	2.1	144
70	EARLY FERMI GAMMA-RAY SPACE TELESCOPE OBSERVATIONS OF THE QUASAR 3C 454.3. <i>Astrophysical Journal</i> , 2009, 699, 817-823.	1.6	141
71	<i>FERMI</i> LARGE AREA TELESCOPE VIEW OF THE CORE OF THE RADIO GALAXY CENTAURUS A. <i>Astrophysical Journal</i> , 2010, 719, 1433-1444.	1.6	141
72	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 557, A52.	2.1	141

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73	GeV GAMMA-RAY FLUX UPPER LIMITS FROM CLUSTERS OF GALAXIES. <i>Astrophysical Journal Letters</i> , 2010, 717, L71-L78.	3.0	140
74	<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
75	Wavelets and curvelets for image deconvolution: a combined approach. <i>Signal Processing</i> , 2003, 83, 2279-2283.	2.1	134
76	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2014, 566, A55.	2.1	134
77	Fermi Large Area Telescope Measurements of the Diffuse Gamma-Ray Emission at Intermediate Galactic Latitudes. <i>Physical Review Letters</i> , 2009, 103, 251101.	2.9	133
78	<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
79	Wavelets, ridgelets and curvelets on the sphere. <i>Astronomy and Astrophysics</i> , 2006, 446, 1191-1204.	2.1	131
80	<i>SWIFT</i> AND <i>FERMI</i> OBSERVATIONS OF THE EARLY AFTERGLOW OF THE SHORT GAMMA-RAY BURST 090510. <i>Astrophysical Journal Letters</i> , 2010, 709, L146-L151.	3.0	130
81	Astronomical Image and Data Analysis. <i>Astronomy and Astrophysics Library</i> , 2002, , .	0.2	129
82	Constraints on cosmological dark matter annihilation from the Fermi-LAT isotropic diffuse gamma-ray measurement. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 014-014.	1.9	129
83	<i>Planck</i> 2013 results. IX. HFI spectral response. <i>Astronomy and Astrophysics</i> , 2014, 571, A9.	2.1	129
84	<i>Planck</i> 2013 results. XIX. The integrated Sachs-Wolfe effect. <i>Astronomy and Astrophysics</i> , 2014, 571, A19.	2.1	126
85	<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
86	<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
87	The on-orbit calibration of the Fermi Large Area Telescope. <i>Astroparticle Physics</i> , 2009, 32, 193-219.	1.9	123
88	<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
89	Wavelet-Based Combined Signal Filtering and Prediction. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2005, 35, 1241-1251.	5.5	120
90	Full-sky weak-lensing simulation with 70 billion particles. <i>Astronomy and Astrophysics</i> , 2009, 497, 335-341.	2.1	120

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91	<i>FERMI</i>LARGE AREA TELESCOPE OBSERVATIONS OF THE VELA PULSAR. Astrophysical Journal, 2009, 696, 1084-1093.	1.6	120
92	<i>Planck</i>early results. XXI. Properties of the interstellar medium in the Galactic plane. Astronomy and Astrophysics, 2011, 536, A21.	2.1	119
93	GREAT3 results â€“ I. Systematic errors in shear estimation and the impact of real galaxy morphology. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2963-3007.	1.6	119
94	<i>Planck</i>early results. VI. The High Frequency Instrument data processing. Astronomy and Astrophysics, 2011, 536, A6.	2.1	116
95	<i>Planck</i>2013 results. XVIII. The gravitational lensing-infrared background correlation. Astronomy and Astrophysics, 2014, 571, A18.	2.1	116
96	Results of the 2020 fastMRI Challenge for Machine Learning MR Image Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 2306-2317.	5.4	114
97	On neuro-wavelet modeling. Decision Support Systems, 2004, 37, 475-484.	3.5	108
98	<i>Planck</i>2013 results. VIII. HFI photometric calibration and mapmaking. Astronomy and Astrophysics, 2014, 571, A8.	2.1	107
99	Observations of the Large Magellanic Cloud with<i>Fermi</i>. Astronomy and Astrophysics, 2010, 512, A7.	2.1	106
100	<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
101	<i>Planck</i>2013 results. VI. High Frequency Instrument data processing. Astronomy and Astrophysics, 2014, 571, A6.	2.1	103
102	Wavelet-based nonlinear multiscale decomposition model for electricity load forecasting. Neurocomputing, 2006, 70, 139-154.	3.5	100
103	<i>Planck</i>early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. Astronomy and Astrophysics, 2011, 536, A12.	2.1	100
104	The scale of the problem: recovering images of reionization with Generalized Morphological Component Analysis. Monthly Notices of the Royal Astronomical Society, 2013, 429, 165-176.	1.6	100
105	<i>FERMI</i>LAT OBSERVATION OF DIFFUSE GAMMA RAYS PRODUCED THROUGH INTERACTIONS BETWEEN LOCAL INTERSTELLAR MATTER AND HIGH-ENERGY COSMIC RAYS. Astrophysical Journal, 2009, 703, 1249-1256.	1.6	99
106	<i>FERMI</i>LARGE AREA TELESCOPE AND MULTI-WAVELENGTH OBSERVATIONS OF THE FLARING ACTIVITY OF PKS 1510-089 BETWEEN 2008 SEPTEMBER AND 2009 JUNE. Astrophysical Journal, 2010, 721, 1425-1447.	1.6	99
107	<i>Planck</i>2013 results. VII. HFI time response and beams. Astronomy and Astrophysics, 2014, 571, A7.	2.1	99
108	THE VELA PULSAR: RESULTS FROM THE FIRST YEAR OF<i>FERMI</i>LAT OBSERVATIONS. Astrophysical Journal, 2010, 713, 154-165.	1.6	96

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109	<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
110	Filtering and deconvolution by the wavelet transform. <i>Signal Processing</i> , 1994, 35, 195-211.	2.1	91
111	<i>Planck</i> early results. II. The thermal performance of <i>Planck</i>. <i>Astronomy and Astrophysics</i> , 2011, 536, A2.	2.1	91
112	<i>Planck</i> 2013 results. XXVI. Background geometry and topology of the Universe. <i>Astronomy and Astrophysics</i> , 2014, 571, A26.	2.1	91
113	<i>Planck</i> 2013 results. XIV. Zodiacal emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A14.	2.1	90
114	Multiresolution Support Applied to Image Filtering and Restoration. <i>Graphical Models</i> , 1995, 57, 420-431.	1.4	89
115	The XMM Large-Scale Structure survey: the X-ray pipeline and survey selection function. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 372, 578-590.	1.6	89
116	<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
117	The Fermi Gamma-Ray Space Telescope Discovers the Pulsar in the Young Galactic Supernova Remnant CTA 1. <i>Science</i> , 2008, 322, 1218-1221.	6.0	87
118	Learning the Morphological Diversity. <i>SIAM Journal on Imaging Sciences</i> , 2010, 3, 646-669.	1.3	87
119	Detection of High-Energy Gamma-Ray Emission from the Globular Cluster 47 Tucanae with Fermi. <i>Science</i> , 2009, 325, 845-848.	6.0	80
120	<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
121	Automatic Noise Estimation from the Multiresolution Support. <i>Publications of the Astronomical Society of the Pacific</i> , 1998, 110, 193-199.	1.0	78
122	Prediction Based on a Multiscale Decomposition. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2003, 01, 217-232.	0.9	76
123	Morphological diversity and source separation. <i>IEEE Signal Processing Letters</i> , 2006, 13, 409-412.	2.1	76
124	<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
125	<i>Planck</i> 2013 results. II. Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A2.	2.1	74
126	DETECTION OF THE ENERGETIC PULSAR PSR B1509â€“58 AND ITS PULSAR WIND NEBULA IN MSH 15â€“52 USING THE <i>FERMI</i>-LARGE AREA TELESCOPE. <i>Astrophysical Journal</i> , 2010, 714, 927-936.	1.6	72

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127	<i>Planck</i> early results. XXVI. Detection with <i>Planck</i> and confirmation by <i>XMM-Newton</i> of PLCKG266.6â€“27.3, an exceptionally X-ray luminous and massive galaxy cluster at <i>z</i>=1. Astronomy and Astrophysics, 2011, 536, A26.	2.1	72
128	LOFAR sparse image reconstruction. Astronomy and Astrophysics, 2015, 575, A90.	2.1	71
129	<i>Planck</i> 2013 results. X. HFI energetic particle effects: characterization, removal, and simulation. Astronomy and Astrophysics, 2014, 571, A10.	2.1	68
130	<i>Planck</i> 2013 results. V. LFI calibration. Astronomy and Astrophysics, 2014, 571, A5.	2.1	67
131	Wasserstein Dictionary Learning: Optimal Transport-Based Unsupervised Nonlinear Dictionary Learning. SIAM Journal on Imaging Sciences, 2018, 11, 643-678.	1.3	64
132	<title>Very high quality image restoration by combining wavelets and curvelets</title>. , 2001, 4478, 9.		63
133	MCALab: Reproducible Research in Signal and Image Decomposition and Inpainting. Computing in Science and Engineering, 2010, 12, 44-63.	1.2	63
134	The XMM-Large Scale Structure catalogue: X-ray sources and associated optical data. Version I. Monthly Notices of the Royal Astronomical Society, 2007, 382, 279-290.	1.6	62
135	Planck early results. XIV. ERCSC validation and extreme radio sources. Astronomy and Astrophysics, 2011, 536, A14.	2.1	61
136	Weak lensing mass reconstruction using wavelets. Astronomy and Astrophysics, 2006, 451, 1139-1150.	2.1	57
137	Morphological Component Analysis and Inpainting on the Sphere: Application in Physics and Astrophysics. Journal of Fourier Analysis and Applications, 2007, 13, 729-748.	0.5	55
138	<i>Planck</i> intermediate results. XIV. Dust emission at millimetre wavelengths in the Galactic plane. Astronomy and Astrophysics, 2014, 564, A45.	2.1	55
139	<i>Planck</i> 2013 results. III. LFI systematic uncertainties. Astronomy and Astrophysics, 2014, 571, A3.	2.1	54
140	CMB data analysis and sparsity. Statistical Methodology, 2008, 5, 289-298.	0.5	52
141	Joint <i>Planck</i> and WMAP CMB map reconstruction. Astronomy and Astrophysics, 2014, 563, A105.	2.1	52
142	Wavelet and curvelet moments for image classification: Application to aggregate mixture grading. Pattern Recognition Letters, 2008, 29, 1557-1564.	2.6	51
143	Fast Statistics for weak Lensing (FASTLens): fast method for weak lensing statistics and map making. Monthly Notices of the Royal Astronomical Society, 2009, 395, 1265-1279.	1.6	51
144	Spectral Analysis Using the Wavelet Transform. Astrophysical Journal, 1997, 482, 1011-1020.	1.6	50

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145	SZ and CMB reconstruction using generalized morphological component analysis. <i>Statistical Methodology</i> , 2008, 5, 307-317.	0.5	50
146	Blind Source Separation: The Sparsity Revolution. <i>Advances in Imaging and Electron Physics</i> , 2008, 152, 221-302.	0.1	50
147	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2012, 543, A102.	2.1	50
148	A Catalog of Diffuse X-ray-emitting Features within 20 pc of Sagittarius A*: Twenty Pulsar Wind Nebulae?. <i>Astrophysical Journal</i> , 2008, 673, 251-263.	1.6	49
149	<i>FERMI</i> -LARGE AREA TELESCOPE OBSERVATIONS OF THE EXCEPTIONAL GAMMA-RAY OUTBURSTS OF 3C 273 IN 2009 SEPTEMBER. <i>Astrophysical Journal Letters</i> , 2010, 714, L73-L78.	3.0	49
150	Measuring the integrated Sachs-Wolfe effect. <i>Astronomy and Astrophysics</i> , 2011, 534, A51.	2.1	49
151	Astronomical image and signal processing: looking at noise, information and scale. <i>IEEE Signal Processing Magazine</i> , 2001, 18, 30-40.	4.6	48
152	Breaking degeneracies in modified gravity with higher (than 2nd) order weak-lensing statistics. <i>Astronomy and Astrophysics</i> , 2018, 619, A38.	2.1	48
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