

Jean-Luc Starck

List of Publications by Year in descending order

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350
papers

44,019
citations

2101

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359
docs citations

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times ranked

24041
citing authors

#	ARTICLE	IF	CITATIONS
1	NC-PDNet: A Density-Compensated Unrolled Network for 2D and 3D Non-Cartesian MRI Reconstruction. IEEE Transactions on Medical Imaging, 2022, 41, 1625-1638.	8.9	24
2	ShapeNet: Shape constraint for galaxy image deconvolution. Astronomy and Astrophysics, 2022, 663, A69.	5.1	5
3	SLITRONOMY: Towards a fully wavelet-based strong lensing inversion technique. Astronomy and Astrophysics, 2021, 647, A176.	5.1	18
4	Weak-lensing mass reconstruction using sparsity and a Gaussian random field. Astronomy and Astrophysics, 2021, 649, A99.	5.1	8
5	Results of the 2020 fastMRI Challenge for Machine Learning MR Image Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 2306-2317.	8.9	114
6	Wavelets in the Deep Learning Era. , 2021, , .		6
7	Starletâ, “1-norm for weak lensing cosmology. Astronomy and Astrophysics, 2021, 645, L11.	5.1	12
8	Galaxy Image Restoration with Shape Constraint. Journal of Fourier Analysis and Applications, 2021, 27, 1.	1.0	1
9	Convolutional Neural Networks for Spectroscopic Redshift Estimation on Euclid Data. IEEE Transactions on Big Data, 2020, 6, 460-476.	6.1	6
10	Constraining neutrino masses with weak-lensing multiscale peak counts. Physical Review D, 2020, 102, .	4.7	26
11	Semisupervised Dictionary Learning with Graph Regularized and Active Points. SIAM Journal on Imaging Sciences, 2020, 13, 724-745.	2.2	2
12	Benchmarking MRI Reconstruction Neural Networks on Large Public Datasets. Applied Sciences (Switzerland), 2020, 10, 1816.	2.5	29
13	PySAP: Python Sparse Data Analysis Package for multidisciplinary image processing. Astronomy and Computing, 2020, 32, 100402.	1.7	19
14	Deep learning dark matter map reconstructions from DES SV weak lensing data. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5023-5029.	4.4	32
15	Distinguishing standard and modified gravity cosmologies with machine learning. Physical Review D, 2019, 100, .	4.7	29
16	Debiasing inference with approximate covariance matrices and other unidentified biases. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 021-021.	5.4	16
17	On the dissection of degenerate cosmologies with machine learning. Monthly Notices of the Royal Astronomical Society, 2019, 487, 104-122.	4.4	27
18	Radio astronomical images restoration with shape constraint. , 2019, , .		0

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19	Wasserstein Dictionary Learning: Optimal Transport-Based Unsupervised Nonlinear Dictionary Learning. SIAM Journal on Imaging Sciences, 2018, 11, 643-678.	2.2	64
20	Dictionary Learning for Photometric Redshift Estimation. , 2018, , .		0
21	Modelling Data with both Sparsity and a Gaussian Random Field: Application to Dark Matter Mass Mapping in Cosmology. , 2018, , .		0
22	Improving weak lensing mass map reconstructions using Gaussian and sparsity priors: application to DES SV. Monthly Notices of the Royal Astronomical Society, 2018, 479, 2871-2888.	4.4	34
23	Breaking degeneracies in modified gravity with higher (than 2nd) order weak-lensing statistics. Astronomy and Astrophysics, 2018, 619, A38.	5.1	48
24	Sparse Reconstruction of the Merging A520 Cluster System. Astrophysical Journal, 2017, 847, 23.	4.5	14
25	Point Spread Function Field Learning Based on Optimal Transport Distances. SIAM Journal on Imaging Sciences, 2017, 10, 1549-1578.	2.2	6
26	Joint Multichannel Deconvolution and Blind Source Separation. SIAM Journal on Imaging Sciences, 2017, 10, 1997-2021.	2.2	14
27	Cosmological constraints with weak-lensing peak counts and second-order statistics in a large-field survey. Astronomy and Astrophysics, 2017, 599, A79.	5.1	36
28	Space variant deconvolution of galaxy survey images. Astronomy and Astrophysics, 2017, 601, A66.	5.1	12
29	Optimal transport-based dictionary learning and its application to Euclid-like Point Spread Function representation. , 2017, , .		0
30	Multi-band morpho-Spectral Component Analysis Deblending Tool (MuSCADeT): Deblending colourful objects. Astronomy and Astrophysics, 2016, 589, A2.	5.1	22
31	High resolution weak lensing mass mapping combining shear and flexion. Astronomy and Astrophysics, 2016, 591, A2.	5.1	38
32	Cosmic microwave background reconstruction from WMAP and Planck PR2 data. Astronomy and Astrophysics, 2016, 591, A50.	5.1	29
33	Constraint matrix factorization for space variant PSFs field restoration. Inverse Problems, 2016, 32, 124001.	2.0	7
34	Sparsity and inverse problems in astrophysics. Journal of Physics: Conference Series, 2016, 699, 012010.	0.4	2
35	A GIANT LY α NEBULA IN THE CORE OF AN X-RAY CLUSTER AT $z=1.99$: IMPLICATIONS FOR EARLY ENERGY INJECTION. Astrophysical Journal, 2016, 829, 53.	4.5	27
36	Application of non-negative matrix factorization to LC/MS data. Signal Processing, 2016, 123, 75-83.	3.7	10

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37	Compressed sensing and radio interferometry. , 2015, , .		0
38	<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
39	Super-resolution method using sparse regularization for point-spread function recovery. Astronomy and Astrophysics, 2015, 575, A86.	5.1	20
40	Polarized cosmic microwave background map recovery with sparse component separation. Astronomy and Astrophysics, 2015, 583, A92.	5.1	2
41	LOFAR sparse image reconstruction. Astronomy and Astrophysics, 2015, 575, A90.	5.1	71
42	Sparsely sampling the sky: Regular vs. random sampling. Astronomy and Astrophysics, 2015, 581, A113.	5.1	2
43	Weak lensing reconstructions in 2D and 3D: implications for cluster studies. Monthly Notices of the Royal Astronomical Society, 2015, 449, 1146-1157.	4.4	3
44	3D galaxy clustering with future wide-field surveys: Advantages of a spherical Fourier-Bessel analysis. Astronomy and Astrophysics, 2015, 578, A10.	5.1	19
45	Sparse representations and convex optimization as tools for LOFAR radio interferometric imaging. Journal of Instrumentation, 2015, 10, C08013-C08013.	1.2	18
46	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.	4.4	119
47	Sparsity and Adaptivity for the Blind Separation of Partially Correlated Sources. IEEE Transactions on Signal Processing, 2015, 63, 1199-1213.	5.3	47
48	Multireturn compressed gated range imaging. Optical Engineering, 2015, 54, 031106.	1.0	13
49	SN Ia detection in the SNLS photometric analysis using Morphological Component Analysis. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 041-041.	5.4	2
50	Starlet Transform in Astronomical Data Processing. , 2015, , 2053-2098.		6
51	Cosmic Dawn and Epoch of Reionization Foreground Removal with the SKA. , 2015, , .		10
52	Testing foundations of modern cosmology with SKA all-sky surveys. , 2015, , .		6
53	Compressive Video Sensing with Adaptive Measurement Allocation for Improving MPEGx Performance. , 2015, , .		0
54	Overview of Complementarity and Synergy with Other Wavelengths in Cosmology in the SKA era. , 2015, , .		1

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55	Sparse point-source removal for full-sky CMB experiments: application to WMAP 9-year data. <i>Astronomy and Astrophysics</i> , 2014, 566, A100.	5.1	7
56	<i>Planck</i> 2013 results. XIV. Zodiacal emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A14.	5.1	90
57	<i>Planck</i> 2013 results. VI. High Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A6.	5.1	103
58	<i>Planck</i> 2013 results. X. HFI energetic particle effects: characterization, removal, and simulation. <i>Astronomy and Astrophysics</i> , 2014, 571, A10.	5.1	68
59	<i>Planck</i> 2013 results. V. LFI calibration. <i>Astronomy and Astrophysics</i> , 2014, 571, A5.	5.1	67
60	Morphological Component Analysis for the Inpainting of Grazing Incidence X-Ray Diffraction Images Used for the Structural Characterization of Thin Films. <i>Oil and Gas Science and Technology</i> , 2014, 69, 261-277.	1.4	0
61	<i>Planck</i> 2013 results. III. LFI systematic uncertainties. <i>Astronomy and Astrophysics</i> , 2014, 571, A3.	5.1	54
62	<i>Planck</i> 2013 results. XII. Diffuse component separation. <i>Astronomy and Astrophysics</i> , 2014, 571, A12.	5.1	216
63	<i>Planck</i> 2013 results. XIII. Galactic CO emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A13.	5.1	144
64	<i>Planck</i> 2013 results. XI. All-sky model of thermal dust emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A11.	5.1	566
65	PRISM: Recovery of the primordial spectrum from Planck data. <i>Astronomy and Astrophysics</i> , 2014, 571, L1.	5.1	10
66	Starlet Transform in Astronomical Data Processing. , 2014, , 1-40.		1
67	Compressed sensing reconstruction of convolved sparse signals. , 2014, , .		2
68	Sparse blind source separation for partially correlated sources. , 2014, , .		0
69	The science case and data processing strategy for the Thinned Aperture Light Collector (TALC): a project for a 20m far-infrared space telescope. , 2014, , .		5
70	Planck CMB anomalies: astrophysical and cosmological secondary effects and the curse of masking. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 006-006.	5.4	42
71	NMF with Sparse Regularizations in Transformed Domains. <i>SIAM Journal on Imaging Sciences</i> , 2014, 7, 2020-2047.	2.2	19
72	GLIMPSE: accurate 3D weak lensing reconstructions using sparsity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 1281-1294.	4.4	28

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73	<i>Planck</i> 2013 results. I. Overview of products and scientific results. <i>Astronomy and Astrophysics</i> , 2014, 571, A1.	5.1	948
74	<i>Planck</i> 2013 results. XXX. Cosmic infrared background measurements and implications for star formation. <i>Astronomy and Astrophysics</i> , 2014, 571, A30.	5.1	210
75	<i>Planck</i> 2013 results. XXV. Searches for cosmic strings and other topological defects. <i>Astronomy and Astrophysics</i> , 2014, 571, A25.	5.1	223
76	PRISM: Sparse recovery of the primordial power spectrum. <i>Astronomy and Astrophysics</i> , 2014, 566, A77.	5.1	13
77	<i>Planck</i> intermediate results. XIV. Dust emission at millimetre wavelengths in the Galactic plane. <i>Astronomy and Astrophysics</i> , 2014, 564, A45.	5.1	55
78	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2014, 566, A55.	5.1	134
79	<i>Planck</i> 2013 results. XV. CMB power spectra and likelihood. <i>Astronomy and Astrophysics</i> , 2014, 571, A15.	5.1	364
80	<i>Planck</i> 2013 results. XX. Cosmology from Sunyaev-Zeldovich cluster counts. <i>Astronomy and Astrophysics</i> , 2014, 571, A20.	5.1	465
81	<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.	5.1	133
82	<i>Planck</i> 2013 results. XXIX. The <i>Planck</i> catalogue of Sunyaev-Zeldovich sources. <i>Astronomy and Astrophysics</i> , 2014, 571, A29.	5.1	380
83	<i>Planck</i> 2013 results. XXVIII. The <i>Planck</i> Catalogue of Compact Sources. <i>Astronomy and Astrophysics</i> , 2014, 571, A28.	5.1	162
84	<i>Planck</i> 2013 results. XIX. The integrated Sachs-Wolfe effect. <i>Astronomy and Astrophysics</i> , 2014, 571, A19.	5.1	126
85	<i>Planck</i> 2013 results. IX. HFI spectral response. <i>Astronomy and Astrophysics</i> , 2014, 571, A9.	5.1	129
86	<i>Planck</i> 2013 results. XXIII. Isotropy and statistics of the CMB. <i>Astronomy and Astrophysics</i> , 2014, 571, A23.	5.1	367
87	<i>Planck</i> 2013 results. VII. HFI time response and beams. <i>Astronomy and Astrophysics</i> , 2014, 571, A7.	5.1	99
88	<i>Planck</i> 2013 results. VIII. HFI photometric calibration and mapmaking. <i>Astronomy and Astrophysics</i> , 2014, 571, A8.	5.1	107
89	<i>Planck</i> 2013 results. XVIII. The gravitational lensing-infrared background correlation. <i>Astronomy and Astrophysics</i> , 2014, 571, A18.	5.1	116
90	<i>Planck</i> 2013 results. IV. Low Frequency Instrument beams and window functions. <i>Astronomy and Astrophysics</i> , 2014, 571, A4.	5.1	41

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91	<i>Planck</i> 2013 results. XXVI. Background geometry and topology of the Universe. <i>Astronomy and Astrophysics</i> , 2014, 571, A26.	5.1	91
92	<i>Planck</i> 2013 results. II. Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A2.	5.1	74
93	PRISM: Sparse recovery of the primordial spectrum from WMAP9 and Planck datasets. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 60-63.	0.0	1
94	Density reconstruction from 3D lensing: Application to galaxy clusters. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 104-106.	0.0	0
95	Darth Fader: Analysing galaxy spectra at low signal-to-noise. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 72-74.	0.0	0
96	3-D Sparse Representations. <i>Advances in Imaging and Electron Physics</i> , 2014, 183, 99-204.	0.2	3
97	<i>Planck</i> 2013 results. XVII. Gravitational lensing by large-scale structure. <i>Astronomy and Astrophysics</i> , 2014, 571, A17.	5.1	272
98	<i>Planck</i> 2013 results. XXIV. Constraints on primordial non-Gaussianity. <i>Astronomy and Astrophysics</i> , 2014, 571, A24.	5.1	350
99	<i>Planck</i> 2013 results. XXII. Constraints on inflation. <i>Astronomy and Astrophysics</i> , 2014, 571, A22.	5.1	806
100	<i>Planck</i> 2013 results. XVI. Cosmological parameters. <i>Astronomy and Astrophysics</i> , 2014, 571, A16.	5.1	4,703
101	Joint <i>Planck</i> and WMAP CMB map reconstruction. <i>Astronomy and Astrophysics</i> , 2014, 563, A105.	5.1	52
102	Sparse and Non-Negative BSS for Noisy Data. <i>IEEE Transactions on Signal Processing</i> , 2013, 61, 5620-5632.	5.3	30
103	Poisson noise removal with pyramidal multi-scale transforms. , 2013, , .		0
104	Covariation-based subspace-augmented MUSIC for joint sparse support recovery in impulsive environments. <i>Signal Processing</i> , 2013, 93, 1365-1373.	3.7	7
105	Low- α_s CMB analysis and inpainting. <i>Astronomy and Astrophysics</i> , 2013, 550, A15.	5.1	27
106	Imaging dark matter using sparsity. , 2013, , .		0
107	Compressed sensing image reconstruction for the LOFAR Radio Telescope. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
108	3D sparse representations on the sphere and applications in astronomy. , 2013, , .		0

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109	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.	4.4	100
110	Compressed gated range sensing. , 2013, , .		2
111	Sparsity and cosmology: inverse problems in cosmic microwave background experiments. Proceedings of SPIE, 2013, , .	0.8	0
112	Joint reconstruction of compressively sensed ultrasound RF echoes by exploiting temporal correlations. , 2013, , .		9
113	On preferred axes in WMAP cosmic microwave background data after subtraction of the integrated Sachs-Wolfe effect. Astronomy and Astrophysics, 2013, 557, L1.	5.1	13
114	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 557, A52.	5.1	141
115	Darth Fader: Using wavelets to obtain accurate redshifts of spectra at very low signal-to-noise. Astronomy and Astrophysics, 2013, 560, A83.	5.1	8
116	Astronomical image denoising using dictionary learning. Astronomy and Astrophysics, 2013, 556, A132.	5.1	29
117	Sparse component separation for accurate cosmic microwave background estimation. Astronomy and Astrophysics, 2013, 550, A73.	5.1	43
118	Sparsity and the Bayesian perspective. Astronomy and Astrophysics, 2013, 552, A133.	5.1	17
119	WMAP nine-year CMB estimation using sparsity. Astronomy and Astrophysics, 2013, 553, L4.	5.1	13
120	Removal of two large-scale cosmic microwave background anomalies after subtraction of the integrated Sachs-Wolfe effect. Astronomy and Astrophysics, 2013, 557, A32.	5.1	21
121	Curvelets and Ridgelets. , 2012, , 754-773.		9
122	CMB Map Restoration. Advances in Astronomy, 2012, 2012, 1-15.	1.1	3
123	Active range imaging via random gating. Proceedings of SPIE, 2012, , .	0.8	3
124	A comparison of algorithms for the construction of SZ cluster catalogues. Astronomy and Astrophysics, 2012, 548, A51.	5.1	23
125	3DEX: a code for fast spherical Fourier-Bessel decomposition of 3D surveys. Astronomy and Astrophysics, 2012, 540, A60.	5.1	34
126	DETECTING BARYON ACOUSTIC OSCILLATIONS. Astrophysical Journal, 2012, 746, 172.	4.5	13

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127	Spherical 3D isotropic wavelets. <i>Astronomy and Astrophysics</i> , 2012, 540, A92.	5.1	25
128	EFFECT OF MODEL-DEPENDENT COVARIANCE MATRIX FOR STUDYING BARYON ACOUSTIC OSCILLATIONS. <i>Astrophysical Journal</i> , 2012, 760, 97.	4.5	13
129	Compressive video classification for decision systems with limited resources. , 2012, , .		0
130	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2012, 543, A102.	5.1	50
131	A hybrid approach to cosmic microwave background lensing reconstruction from all-sky intensity maps. <i>Astronomy and Astrophysics</i> , 2012, 544, A27.	5.1	12
132	A compressed sensing approach to 3D weak lensing. <i>Astronomy and Astrophysics</i> , 2012, 539, A85.	5.1	16
133	True cosmic microwave background power spectrum estimation. <i>Astronomy and Astrophysics</i> , 2012, 541, A74.	5.1	4
134	Wavelet Helmholtz decomposition for weak lensing mass map reconstruction. <i>Astronomy and Astrophysics</i> , 2012, 540, A34.	5.1	8
135	Wavelet analysis of baryon acoustic structures in the galaxy distribution. <i>Astronomy and Astrophysics</i> , 2012, 542, A34.	5.1	13
136	Multichannel Poisson denoising and deconvolution on the sphere: application to the <i>Fermi</i> Gamma-ray Space Telescope. <i>Astronomy and Astrophysics</i> , 2012, 546, A114.	5.1	17
137	Deconvolution under Poisson noise using exact data fidelity and synthesis or analysis sparsity priors. <i>Statistical Methodology</i> , 2012, 9, 4-18.	0.5	18
138	Uncertainty in 2-point correlation function estimators and baryon acoustic oscillation detection in galaxy surveys. <i>Statistical Methodology</i> , 2012, 9, 85-100.	0.5	10
139	Editorial for the special issue on astrostatistics. <i>Statistical Methodology</i> , 2012, 9, 1-3.	0.5	1
140	Sparse Solution of Underdetermined Systems of Linear Equations by Stagewise Orthogonal Matching Pursuit. <i>IEEE Transactions on Information Theory</i> , 2012, 58, 1094-1121.	2.4	1,257
141	Cosmological constraints from the capture of non-Gaussianity in weak lensing data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 983-992.	4.4	31
142	Fast calculation of the weak lensing aperture mass statistic. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 3405-3412.	4.4	15
143	Weak Gravitational Lensing. <i>Chapman & Hall/CRC Data Mining and Knowledge Discovery Series</i> , 2012, , .	0.2	1
144	Cosmic Microwave Background Data Analysis. <i>Chapman & Hall/CRC Data Mining and Knowledge Discovery Series</i> , 2012, , .	0.2	1

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145	Numerical Issues When Using Wavelets. , 2012, , 2121-2137.		3
146	Poisson Noise Removal in Spherical Multichannel Images. Chapman & Hall/CRC Data Mining and Knowledge Discovery Series, 2012, , .	0.2	0
147	Source separation in cosmology, from global to local models. , 2011, , .		0
148	<i>Planck</i> early results. XXI. Properties of the interstellar medium in the Galactic plane. Astronomy and Astrophysics, 2011, 536, A21.	5.1	119
149	<i>Planck</i> early results. XVIII. The power spectrum of cosmic infrared background anisotropies. Astronomy and Astrophysics, 2011, 536, A18.	5.1	180
150	<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
151	<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
152	<i>Planck</i> early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. Astronomy and Astrophysics, 2011, 536, A12.	5.1	100
153	<i>Planck</i> early results. II. The thermal performance of <i>Planck</i>. Astronomy and Astrophysics, 2011, 536, A2.	5.1	91
154	Feasibility and performances of compressed sensing and sparse map-making with <i>Herschel</i>/PACS data. Astronomy and Astrophysics, 2011, 527, A102.	5.1	6
155	<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
156	<i>Planck</i> early results. XXV. Thermal dust in nearby molecular clouds. Astronomy and Astrophysics, 2011, 536, A25.	5.1	184
157	<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
158	<i>Planck</i> early results. VI. The High Frequency Instrument data processing. Astronomy and Astrophysics, 2011, 536, A6.	5.1	116
159	<i>Planck</i> early results. XXIII. The first all-sky survey of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A23.	5.1	152
160	<i>Planck</i> early results. XVI. The <i>Planck</i> view of nearby galaxies. Astronomy and Astrophysics, 2011, 536, A16.	5.1	74
161	<i>Planck</i> early results. VII. The Early Release Compact Source Catalogue. Astronomy and Astrophysics, 2011, 536, A7.	5.1	224
162	<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

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163	<i>Planck</i> early results. XXIV. Dust in the diffuse interstellar medium and the Galactic halo. <i>Astronomy and Astrophysics</i> , 2011, 536, A24.	5.1	179
164	<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.	5.1	124
165	<i>Planck</i> early results. XI. Calibration of the local galaxy cluster Sunyaev-Zeldovich scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 536, A11.	5.1	174
166	<i>Planck</i> early results. XIV. ERCSC validation and extreme radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A14.	5.1	61
167	<i>Planck</i> early results. IV. First assessment of the High Frequency Instrument in-flight performance. <i>Astronomy and Astrophysics</i> , 2011, 536, A4.	5.1	136
168	<i>Planck</i> early results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. <i>Astronomy and Astrophysics</i> , 2011, 536, A8.	5.1	335
169	<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.	5.1	72
170	<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.	5.1	93
171	<i>Planck</i> early results. I. The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2011, 536, A1.	5.1	394
172	Introduction to the issue on Adaptive Sparse Representation of Data and Applications in Signal and Image Processing. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2011, 5, 893-895.	10.8	3
173	3-D Data Denoising and Inpainting with the Low-Redundancy Fast Curvelet Transform. <i>Journal of Mathematical Imaging and Vision</i> , 2011, 39, 121-139.	1.3	26
174	Multiresolution Analysis Techniques to Isolate, Detect, and Characterize Morphologically Diverse Features of Structured ICF Capsule Implosions. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2434-2435.	1.3	1
175	Starlet Transform in Astronomical Data Processing. , 2011, , 1489-1531.		12
176	Measuring the integrated Sachs-Wolfe effect. <i>Astronomy and Astrophysics</i> , 2011, 534, A51.	5.1	49
177	<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.	5.1	126
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