

Frederic Courbin

List of Publications by Year in descending order

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104
papers

7,062
citations

50244

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docs citations

105
times ranked

4131
citing authors

#	ARTICLE	IF	CITATIONS
1	J1721+8842: a gravitationally lensed binary quasar with a proximate damped Lyman- α absorber. <i>Astronomy and Astrophysics</i> , 2022, 657, A113.	2.1	12
2	Constraining quasar structure using high-frequency microlensing variations and continuum reverberation. <i>Astronomy and Astrophysics</i> , 2022, 659, A21.	2.1	8
3	Time delay lens modelling challenge. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 1096-1123.	1.6	24
4	SLITRONOMY: Towards a fully wavelet-based strong lensing inversion technique. <i>Astronomy and Astrophysics</i> , 2021, 647, A176.	2.1	18
5	Measuring accretion disk sizes of lensed quasars with microlensing time delay in multi-band light curves. <i>Astronomy and Astrophysics</i> , 2021, 647, A115.	2.1	9
6	The need for a multi-purpose, optical-NIR space facility after HST and JWST. <i>Experimental Astronomy</i> , 2021, 51, 765.	1.6	1
7	Faint objects in motion: the new frontier of high precision astrometry. <i>Experimental Astronomy</i> , 2021, 51, 845-886.	1.6	17
8	HOLiCOW XII. Lens mass model of WFI2033-4723 and blind measurement of its time-delay distance and H_0 . <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1440-1468.	1.6	61
9	TDCOSMO. <i>Astronomy and Astrophysics</i> , 2020, 639, A101.	2.1	126
10	The STRong lensing Insights into the Dark Energy Survey (STRIDES) 2017/2018 follow-up campaign: discovery of 10 lensed quasars and 10 quasar pairs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 3491-3511.	1.6	34
11	COSMOGRAIL. <i>Astronomy and Astrophysics</i> , 2020, 640, A105.	2.1	52
12	Cosmic dissonance: are new physics or systematics behind a short sound horizon?. <i>Astronomy and Astrophysics</i> , 2020, 639, A57.	2.1	61
13	HOLiCOW XI. A weak lensing measurement of the external convergence in the field of the lensed quasar B1608+656 using HST and Subaru deep imaging. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1406-1419.	1.6	10
14	STRIDES: a 3.9 per cent measurement of the Hubble constant from the strong lens system DES J0408+5354. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 6072-6102.	1.6	140
15	HOLiCOW XIII. A 2.4 per cent measurement of H_0 from lensed quasars: 5.3% tension between early- and late-Universe probes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1420-1439.	1.6	632
16	A Microlensing Accretion Disk Size Measurement in the Lensed Quasar WFI 2026-4536. <i>Astrophysical Journal</i> , 2020, 895, 125.	1.6	21
17	Exploiting flux ratio anomalies to probe warm dark matter in future large-scale surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 4247-4253.	1.6	8
18	Twisted quasar light curves: implications for continuum reverberation mapping of accretion disks. <i>Astronomy and Astrophysics</i> , 2020, 636, A52.	2.1	11

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19	HOLISMOKES. <i>Astronomy and Astrophysics</i> , 2020, 644, A162.	2.1	37
20	TDCOSMO. <i>Astronomy and Astrophysics</i> , 2020, 642, A193.	2.1	30
21	TDCOSMO. <i>Astronomy and Astrophysics</i> , 2020, 643, A165.	2.1	215
22	PyCS3: A Python toolbox for time-delay measurements in lensed quasars. <i>Journal of Open Source Software</i> , 2020, 5, 2654.	2.0	7
23	COSMOGRAIL. <i>Astronomy and Astrophysics</i> , 2019, 629, A97.	2.1	31
24	A SHARP view of HOLiCOW: H0 from three time-delay gravitational lens systems with adaptive optics imaging. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 1743-1773.	1.6	128
25	HOLiCOW â€“â€‰X. Spectroscopic/imaging survey and galaxy-group identification around the strong gravitational lens system WFIâ€‰%2033â€‰^4723. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 613-633.	1.6	24
26	HOLiCOW â€“ IX. Cosmographic analysis of the doubly imaged quasar SDSS 1206+4332 and a new measurement of the Hubble constant. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 4726-4753.	1.6	262
27	The Hubble constant determined through an inverse distance ladder including quasar time delays and Type Ia supernovae. <i>Astronomy and Astrophysics</i> , 2019, 628, L7.	2.1	43
28	Sparse Lens Inversion Technique (SLIT): lens and source separability from linear inversion of the source reconstruction problem. <i>Astronomy and Astrophysics</i> , 2019, 623, A14.	2.1	14
29	Strongly lensed SNe Ia in the era of LSST: observing cadence for lens discoveries and time-delay measurements. <i>Astronomy and Astrophysics</i> , 2019, 631, A161.	2.1	33
30	Is every strong lens model unhappy in its own way? Uniform modelling of a sample of 13 quadruply+ imaged quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 5649-5671.	1.6	73
31	Impact of the 3D source geometry on time-delay measurements of lensed type-Ia supernovae. <i>Astronomy and Astrophysics</i> , 2019, 621, A55.	2.1	15
32	Dark matter dynamics in Abell 3827: new data consistent with standard cold dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 669-677.	1.6	22
33	Accretion Disk Size Measurement and Time Delays in the Lensed Quasar WFI 2033â€‰^4723. <i>Astrophysical Journal</i> , 2018, 869, 106.	1.6	27
34	HOLiCOW VIII. A weak-lensing measurement of the external convergence in the field of the lensed quasar HEâ€‰%0435â€‰^1223. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 5657-5669.	1.6	42
35	Cosmological Distance Indicators. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	26
36	The STRong lensing Insights into the Dark Energy Survey (STRIDES) 2016 follow-up campaign â€“ I. Overview and classification of candidates selected by two techniques. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 1041-1054.	1.6	48

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37	COSMOGRAIL. <i>Astronomy and Astrophysics</i> , 2018, 616, A183.	2.1	47
38	DES meets Gaia: discovery of strongly lensed quasars from a multiplet search. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 4345-4354.	1.6	39
39	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2018, 609, A71.	2.1	66
40	Models of the strongly lensed quasar DES J0408 ⁺ 5354. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 4038-4050.	1.6	18
41	A detection of wobbling brightest cluster galaxies within massive galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 1972-1980.	1.6	27
42	Discovery of the Lensed Quasar System DES J0408-5354. <i>Astrophysical Journal Letters</i> , 2017, 838, L15.	3.0	32
43	Toward an Internally Consistent Astronomical Distance Scale. <i>Space Science Reviews</i> , 2017, 212, 1743-1785.	3.7	25
44	HOLiCOW ^v . New COSMOGRAIL time delays of HE0435 ⁺ 1223: H_0 to 3.8% precision from strong lensing in a flat Λ CDM model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 4914-4930.	1.6	366
45	HOLiCOW ^{II} . Spectroscopic survey and galaxy-group identification of the strong gravitational lens system HE 0435 ⁺ 1223. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 4838-4857.	1.6	47
46	HOLiCOW ^I . H_0 Lenses in COSMOGRAIL's Wellspring: program overview. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 2590-2604.	1.6	253
47	A test for skewed distributions of dark matter, and a possible detection in galaxy cluster Abell 3827. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 5004-5013.	1.6	13
48	HOLiCOW. VI. Testing the fidelity of lensed quasar host galaxy reconstruction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 4634-4649.	1.6	28
49	HOLiCOW ^{IV} . Lens mass model of HE0435 ⁺ 1223 and blind measurement of its time-delay distance for cosmology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 4895-4913.	1.6	141
50	ASTERIsM: application of topometric clustering algorithms in automatic galaxy detection and classification. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 2939-2957.	1.6	13
51	Multi-band morpho-Spectral Component Analysis Deblending Tool (MuSCADeT): Deblending colourful objects. <i>Astronomy and Astrophysics</i> , 2016, 589, A2.	2.1	22
52	Firedec: a two-channel finite-resolution image deconvolution algorithm. <i>Astronomy and Astrophysics</i> , 2016, 589, A81.	2.1	23
53	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2016, 585, A88.	2.1	60
54	GREAT3 results ^I . Systematic errors in shear estimation and the impact of real galaxy morphology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2963-3007.	1.6	119

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55	STRONG LENS TIME DELAY CHALLENGE. II. RESULTS OF TDC1. <i>Astrophysical Journal</i> , 2015, 800, 11.	1.6	120
56	Discovery of two gravitationally lensed quasars in the Dark Energy Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 1260-1265.	1.6	41
57	A CONSISTENT PICTURE EMERGES: A COMPACT X-RAY CONTINUUM EMISSION REGION IN THE GRAVITATIONALLY LENSED QUASAR SDSS J0924+0219. <i>Astrophysical Journal</i> , 2015, 806, 258.	1.6	52
58	A $7\hat{\text{A}}\text{deg}2$ survey for galaxy-scale gravitational lenses with the HST imaging archive~.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 3392-3404.	1.6	22
59	THE THIRD GRAVITATIONAL LENSING ACCURACY TESTING (GREAT3) CHALLENGE HANDBOOK. <i>Astrophysical Journal</i> , Supplement Series, 2014, 212, 5.	3.0	125
60	COSMOLOGY FROM GRAVITATIONAL LENS TIME DELAYS AND PLANCK DATA. <i>Astrophysical Journal Letters</i> , 2014, 788, L35.	3.0	164
61	Weak lensing mass map and peak statistics in Canadaâ€“Franceâ€“Hawaii Telescope Stripe 82 survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 2534-2542.	1.6	43
62	IMAGE ANALYSIS FOR COSMOLOGY: RESULTS FROM THE GREAT10 STAR CHALLENGE. <i>Astrophysical Journal</i> , Supplement Series, 2013, 205, 12.	3.0	37
63	TWO ACCURATE TIME-DELAY DISTANCES FROM STRONG LENSING: IMPLICATIONS FOR COSMOLOGY. <i>Astrophysical Journal</i> , 2013, 766, 70.	1.6	286
64	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2013, 557, A44.	2.1	50
65	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2013, 553, A121.	2.1	53
66	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2013, 556, A22.	2.1	123
67	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2013, 553, A120.	2.1	109
68	FURTHER EVIDENCE THAT QUASAR X-RAY EMITTING REGIONS ARE COMPACT: X-RAY AND OPTICAL MICROLENSING IN THE LENSED QUASAR Q J0158-4325. <i>Astrophysical Journal</i> , 2012, 756, 52.	1.6	98
69	Image analysis for cosmology: results from the GREAT10 Galaxy Challenge. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 3163-3208.	1.6	128
70	Microlensing of the broad line region in 17 lensed quasars. <i>Astronomy and Astrophysics</i> , 2012, 544, A62.	2.1	101
71	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2011, 536, A53.	2.1	97
72	ZEN2: a narrow<i>j</i>-band search for<i>z</i> $9\text{ Ly}\hat{\text{A}}\pm$ emitting galaxies directed towards three lensing clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 384, 1039-1044.	1.6	34

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73	Simultaneous Estimation of Time Delays and Quasar Structure. <i>Astrophysical Journal</i> , 2008, 676, 80-86.	1.6	36
74	Understanding the Relations between QSOs and Their Host Galaxies from Combined <i>HST</i> Imaging and VLT Spectroscopy. <i>Astrophysical Journal</i> , 2008, 679, 967-983.	1.6	17
75	AN EXPLORATORY SEARCH FOR $z < 0.3$ $z < 0.3$ 6 QUASARS IN THE UKIDSS EARLY DATA RELEASE. <i>Astronomical Journal</i> , 2008, 136, 954-962.	1.9	6
76	Microlensing variability in the gravitationally lensed quasar QSO $\hat{2}237+0305$ the Einstein Cross. <i>Astronomy and Astrophysics</i> , 2008, 480, 647-661.	2.1	48
77	Microlensing variability in the gravitationally lensed quasar QSO $\hat{2}237+0305$ the Einstein Cross. <i>Astronomy and Astrophysics</i> , 2008, 490, 933-943.	2.1	101
78	Discovery of a Probable Physical Triple Quasar. <i>Astrophysical Journal</i> , 2007, 662, L1-L5.	1.6	37
79	Spatial decomposition of on-nucleus spectra of quasar host galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 378, 23-40.	1.6	29
80	On-axis spectroscopy of the host galaxies of 20 optically luminous quasars at $z \hat{=} 0.3$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 378, 83-108.	1.6	53
81	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2007, 464, 845-851.	2.1	51
82	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2007, 465, 51-56.	2.1	54
83	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2006, 450, 461-469.	2.1	19
84	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2006, 451, 759-766.	2.1	60
85	A deep, narrow J-band search for protogalactic Ly $\hat{=}$ emission at redshifts $z \hat{=} 9$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 357, 1348-1356.	1.6	52
86	Discovery of a bright quasar without a massive host galaxy. <i>Nature</i> , 2005, 437, 381-384.	13.7	63
87	COSMOGRAIL: The COSmological MONitoring of GRAVltational Lenses. <i>Astronomy and Astrophysics</i> , 2005, 436, 25-35.	2.1	80
88	An optical time delay for the double gravitational lens system FBQ 0951+2635. <i>Astronomy and Astrophysics</i> , 2005, 431, 103-109.	2.1	43
89	COSMOGRAIL: the COSmological MONitoring of GRAVltational Lenses. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, 297-303.	0.0	18
90	A quadruply imaged quasar with an optical Einstein ring candidate: 1RXS $\hat{J}113155.4$ $\hat{=}$ 123155. <i>Astronomy and Astrophysics</i> , 2003, 406, L43-L46.	2.1	95

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91	An optical time-delay for the lensed BAL quasar HE2149-2745. <i>Astronomy and Astrophysics</i> , 2002, 383, 71-81.	2.1	84
92	Time delay and lens redshift for the doubly imaged BAL quasar SBS 1520+530. <i>Astronomy and Astrophysics</i> , 2002, 391, 481-486.	2.1	74
93	Radio-Optical Alignment and Recent Star Formation Associated with Ionized Filaments in the Halo of NGC 5128 (Centaurus A). <i>Astrophysical Journal</i> , 2002, 564, 688-695.	1.6	48
94	Cosmic Alignment toward the Radio Einstein Ring PKS 1830-211?. <i>Astrophysical Journal</i> , 2002, 575, 95-102.	1.6	40
95	The FIRST Bright Quasar Survey. III. The South Galactic Cap. <i>Astrophysical Journal, Supplement Series</i> , 2001, 135, 227-262.	3.0	94
96	Discovery of the Optical Counterpart and Early Optical Observations of GRB 990712. <i>Astrophysical Journal</i> , 2000, 540, 74-80.	1.6	41
97	The Late Afterglow and Host Galaxy of GRB 990712. <i>Astrophysical Journal</i> , 2000, 534, L147-L150.	1.6	25
98	A Method for Spatial Deconvolution of Spectra. <i>Astrophysical Journal</i> , 2000, 529, 1136-1144.	1.6	43
99	Dark Matter and Gravitational Lensing1. <i>Publications of the Astronomical Society of the Pacific</i> , 2000, 112, 1617-1618.	1.0	1
100	Decay of the GRB 990123 & Optical Afterglow: Implications for the Fireball Model. <i>Science</i> , 1999, 283, 2069-2073.	6.0	95
101	The Redshift of the Gravitationally Lensed Radio Source PKS 1830-211. <i>Astrophysical Journal</i> , 1999, 514, L57-L60.	1.6	66
102	Deconvolution with Correct Sampling. <i>Astrophysical Journal</i> , 1998, 494, 472-477.	1.6	178
103	Image Deconvolution of the Radio Ring PKS 1830-211. <i>Astrophysical Journal</i> , 1998, 499, L119-L123.	1.6	24
104	High-Resolution Optical and Near-Infrared Imaging of the Quadruple Quasar RX J0911.4+0551. <i>Astrophysical Journal</i> , 1998, 501, L5-L10.	1.6	43