Mathilde Jauzac

List of Publications by Year in descending order

46 papers	2,176 citations	279798 23 h-index	265206 42 g-index
48 all docs	48 docs citations	48 times ranked	2464 citing authors

#	Article	IF	Citations
1	Pilot-WINGS: An extended MUSE view of the structure of Abell 370. Monthly Notices of the Royal Astronomical Society, 2022, 514, 497-517.	4.4	12
2	Scatter in the satellite galaxy SHMR: fitting functions, scaling relations,Âand physical processes from the IllustrisTNG simulation. Monthly Notices of the Royal Astronomical Society, 2022, 512, 6021-6037.	4.4	4
3	Further support for a trio of mass-to-light deviations in Abell 370: free-form <scp>grale</scp> lens inversion using BUFFALO strong lensing data. Monthly Notices of the Royal Astronomical Society, 2021, 506, 6144-6158.	4.4	12
4	Galaxy cluster cores as seen with VLT/MUSE: New strong-lensing analyses of RXâ€‰J2129.4Â+Â0009, MSâ€‰0451.6Ââ^'Â0305, and MACSâ€‰J2129.4Ââ^'Â0741. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1206-1226.	4.4	13
5	Extensive Lensing Survey of Optical and Near-infrared Dark Objects (El Sonido): HST H-faint Galaxies behind 101 Lensing Clusters. Astrophysical Journal, 2021, 922, 114.	4.5	14
6	The distribution of dark matter and gas spanning 6 Mpc around the post-merger galaxy cluster MSâ€‰0451â^'03. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4032-4050.	4.4	13
7	What does strong gravitational lensing? The mass and redshift distribution of high-magnification lenses. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3727-3739.	4.4	42
8	On building a cluster watchlist for identifying strongly lensed supernovae, gravitational waves and kilonovae. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1666-1671.	4.4	22
9	Mapping dark matter and finding filaments: calibration of lensing analysis techniques on simulated data. Monthly Notices of the Royal Astronomical Society, 2020, 496, 3973-3990.	4.4	2
10	The BUFFALO HST Survey. Astrophysical Journal, Supplement Series, 2020, 247, 64.	7.7	57
11	Robust diffraction-limited near-infrared-to-near-ultraviolet wide-field imaging from stratospheric balloon-borne platformsâ€”Super-pressure Balloon-borne Imaging Telescope performance. Review of Scientific Instruments, 2020, 91, 034501.	1.3	6
12	hybrid-<scp>lenstool</scp>: a self-consistent algorithm to model galaxy clusters with strong- and weak-lensing simultaneously. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3331-3340.	4.4	14
13	Reconciling galaxy cluster shapes, measured by theorists versus observers. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2627-2644.	4.4	11
14	Stellar splashback: the edge of the intracluster light. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4181-4192.	4.4	22
15	Optical Night Sky Brightness Measurements from the Stratosphere. Astronomical Journal, 2020, 160, 266.	4.7	5
16	Observable tests of self-interacting dark matter in galaxy clusters: cosmological simulations with SIDM and baryons. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3646-3662.	4.4	72
17	Dark matter stripping in galaxy clusters: a look at the stellar-to-halo mass relation in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2019, 487, 653-666.	4.4	26
18	RELICS: Strong Lensing Analysis of MACS J0417.5â€“1154 and Predictions for Observing the Magnified High-redshift Universe with JWST. Astrophysical Journal, 2019, 873, 96.	4.5	27

#	Article	IF	Citations
19	The complex case of MACS J0717.5+3745 and its extended filament: intra-cluster light, galaxy luminosity function, and galaxy orientations. Astronomy and Astrophysics, 2019, 628, A34.	5.1	13
20	The core of the massive cluster merger MACSâ€‰J0417.5â^'1154 as seen by VLT/MUSE. Monthly Notices of the Royal Astronomical Society, 2019, 483, 3082-3097.	4.4	20
21	Dark matter dynamics in Abell 3827: new data consistent with standard cold dark matter. Monthly Notices of the Royal Astronomical Society, 2018, 477, 669-677.	4.4	22
22	What if LIGOâ€™s gravitational wave detections are strongly lensed by massive galaxy clusters?. Monthly Notices of the Royal Astronomical Society, 2018, 475, 3823-3828.	4.4	71
23	Extreme magnification of an individual star at redshift 1.5 by a galaxy-cluster lens. Nature Astronomy, 2018, 2, 334-342.	10.1	97
24	Galaxyâ€“galaxy lensing in the outskirts of CLASH clusters: constraints on local shear and testing massâ€“luminosity scaling relation. Monthly Notices of the Royal Astronomical Society, 2018, 479, 2630-2648.	4.4	11
25	Growing a â€˜cosmic beastâ€™: observations and simulations of MACSâ€‰J0717.5+3745. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2901-2917.	4.4	25
26	The shape of galaxy dark matter haloes in massive galaxy clusters: insights from strong gravitational lensing. Monthly Notices of the Royal Astronomical Society, 2018, 477, 4046-4051.	4.4	17
27	Dark Matter under the Microscope: Constraining Compact Dark Matter with Caustic Crossing Events. Astrophysical Journal, 2018, 857, 25.	4.5	75
28	Overview, design, and flight results from SuperBIT: a high-resolution, wide-field, visible-to-near-UV balloon-borne astronomical telescope. , 2018, , .		6
29	Auto-tuned thermal control on stratospheric balloon experiments. , 2018, , .		4
30	Mapping substructure in the HST Frontier Fields cluster lenses and in cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1962-1980.	4.4	64
31	Hubble Frontier Fields: systematic errors in strong lensing models of galaxy clusters â€“ implications for cosmography. Monthly Notices of the Royal Astronomical Society, 2017, 470, 1809-1825.	4.4	45
32	A test for skewed distributions of dark matter, and a possible detection in galaxy cluster Abell 3827. Monthly Notices of the Royal Astronomical Society, 2017, 468, 5004-5013.	4.4	13
33	Strong-lensing of Gravitational Waves by Galaxy Clusters. Proceedings of the International Astronomical Union, 2017, 13, 98-102.	0.0	19
34	[Câ€‰ii] emission inzÂˆ¼Â6 strongly lensed, star-forming galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 462, L6-L10.	3.3	92
35	THE EVOLUTION OF THE FAINT END OF THE UV LUMINOSITY FUNCTION DURING THE PEAK EPOCH OF STAR FORMATION *. Astrophysical Journal, 2016, 832, 56.	4.5	70
36	ARE ULTRA-FAINT GALAXIES ATz= 6â€“8 RESPONSIBLE FOR COSMIC REIONIZATION? COMBINED CONSTRAINTS FROM THE HUBBLE FRONTIER FIELDS CLUSTERS AND PARALLELS. Astrophysical Journal, 2015, 814, 69.	4.5	166

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37	ILLUMINATING A DARK LENS: A TYPE Ia SUPERNOVA MAGNIFIED BY THE FRONTIER FIELDS GALAXY CLUSTER ABELL 2744. Astrophysical Journal, 2015, 811, 70.	4.5	67
38	NEW CONSTRAINTS ON THE FAINT END OF THE UV LUMINOSITY FUNCTION ATzâˆ¼ 7-8 USING THE GRAVITATIONAL LENSING OF THE HUBBLE FRONTIER FIELDS CLUSTER A2744. Astrophysical Journal, 2015, 800, 18.	4.5	133
39	The behaviour of dark matter associated with four bright cluster galaxies in the 10Âkpc core of Abell 3827. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3393-3406.	4.4	147
40	Warmâ€“hot baryons comprise 5â€“10 per cent of filaments in the cosmic web. Nature, 2015, 528, 105-107.	27.8	133
41	Mass and magnification maps for the Hubble Space Telescope Frontier Fields clusters: implications for high-redshift studies. Monthly Notices of the Royal Astronomical Society, 2014, 444, 268-289.	4.4	173
42	PROBING THEz> 6 UNIVERSE WITH THE FIRST HUBBLE FRONTIER FIELDS CLUSTER A2744. Astrophysical Journal, 2014, 786, 60.	4.5	62
43	WEAK LENSING MEASUREMENT OF GALAXY CLUSTERS IN THE CFHTLS-WIDE SURVEY. Astrophysical Journal, 2012, 748, 56.	4.5	60
44	A weak lensing mass reconstruction of the large-scale filament feeding the massive galaxy cluster MACSâ€‰J0717.5+3745. Monthly Notices of the Royal Astronomical Society, 2012, 426, 3369-3384.	4.4	94
45	HUBBLE SPACE TELESCOPE OBSERVATIONS OF A SPECTACULAR NEW STRONG-LENSING GALAXY CLUSTER: MACS J1149.5+2223 AT z = 0.544. Astrophysical Journal, 2009, 707, L163-L168.	4.5	97
46	Uncovering substructure with wavelets:proof of concept using Abell 2744. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	6