

# Nicolás Cardiel

## List of Publications by Year in descending order

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110  
papers

5,159  
citations

117571

34  
h-index

85498

71  
g-index

116  
all docs

116  
docs citations

116  
times ranked

4147  
citing authors

#	ARTICLE	IF	CITATIONS
1	Medium-resolution Isaac Newton Telescope library of empirical spectra. Monthly Notices of the Royal Astronomical Society, 2006, 371, 703-718.	1.6	1,147
2	An updated MILES stellar library and stellar population models. Astronomy and Astrophysics, 2011, 532, A95.	2.1	529
3	Evolutionary stellar population synthesis with MILES - I. The base models and a new line index system. Monthly Notices of the Royal Astronomical Society, 2010, , .	1.6	379
4	Empirical calibration of the near-infrared Ca II triplet - I. The stellar library and index definition. Monthly Notices of the Royal Astronomical Society, 2001, 326, 959-980.	1.6	277
5	Medium-resolution Isaac Newton Telescope library of empirical spectra - II. The stellar atmospheric parameters. Monthly Notices of the Royal Astronomical Society, 2007, 374, 664-690.	1.6	215
6	Stellar populations of early-type galaxies in different environments. Astronomy and Astrophysics, 2006, 457, 809-821.	2.1	161
7	Near-infrared line-strengths in elliptical galaxies: evidence for initial mass function variations?. Monthly Notices of the Royal Astronomical Society, 2003, 339, L12-L16.	1.6	151
8	Empirical calibration of the near-infrared Ca II triplet - IV. The stellar population synthesis models. Monthly Notices of the Royal Astronomical Society, 2003, 340, 1317-1345.	1.6	146
9	Reliable random error estimation in the measurement of line-strength indices. Astronomy and Astrophysics, 1998, 127, 597-605.	2.1	129
10	The CANDELS/SHARDS Multiwavelength Catalog in GOODS-N: Photometry, Photometric Redshifts, Stellar Masses, Emission-line Fluxes, and Star Formation Rates. Astrophysical Journal, Supplement Series, 2019, 243, 22.	3.0	111
11	Stellar populations of early-type galaxies in different environments. Astronomy and Astrophysics, 2006, 457, 787-808.	2.1	98
12	SHARDS: AN OPTICAL SPECTRO-PHOTOMETRIC SURVEY OF DISTANT GALAXIES. Astrophysical Journal, 2013, 762, 46.	1.6	95
13	Evidence of fast rotation in dwarf elliptical galaxies. Monthly Notices of the Royal Astronomical Society, 2002, 332, L59-L63.	1.6	92
14	Colour remote sensing of the impact of artificial light at night (I): The potential of the International Space Station and other DSLR-based platforms. Remote Sensing of Environment, 2019, 224, 92-103.	4.6	85
15	The relation between stellar populations, structure and environment for dwarf elliptical galaxies from the MAGPOP-ITP. Monthly Notices of the Royal Astronomical Society, 2008, 385, 1374-1392.	1.6	78
16	Empirical calibration of the near-infrared Ca II triplet - II. The stellar atmospheric parameters. Monthly Notices of the Royal Astronomical Society, 2001, 326, 981-994.	1.6	71
17	Empirical calibration of the near-infrared Ca II triplet - III. Fitting functions. Monthly Notices of the Royal Astronomical Society, 2002, 329, 863-876.	1.6	68
18	Stellar populations of early-type galaxies in different environments. Astronomy and Astrophysics, 2006, 457, 823-839.	2.1	62

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19	Using spectroscopic data to disentangle stellar population properties. <i>Astronomy and Astrophysics</i> , 2003, 409, 511-522.	2.1	56
20	GRB 021004 modelled by multiple energy injections. <i>Astronomy and Astrophysics</i> , 2005, 443, 841-849.	2.1	50
21	Constraints on the merging channel of massive galaxies since $z \approx 1$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 906-918.	1.6	50
22	Empirical calibration of the $\lambda 4000$ break. <i>Astronomy and Astrophysics</i> , 1999, 139, 29-41.	2.1	44
23	Spectral gradients in central cluster galaxies: further evidence of star formation in cooling flows. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 298, 977-996.	1.6	43
24	Differences in Carbon and Nitrogen Abundances between Field and Cluster Early-Type Galaxies. <i>Astrophysical Journal</i> , 2003, 590, L91-L94.	1.6	42
25	Line-Strength Indices in Bright Spheroidal Galaxies: Evidence for a Stellar Population Dichotomy between Spheroidal and Elliptical Galaxies. <i>Astrophysical Journal</i> , 1997, 481, L19-L22.	1.6	40
26	A Multiwavelength Approach to the Star Formation Rate Estimation in Galaxies at Intermediate Redshifts. <i>Astrophysical Journal</i> , 2003, 584, 76-99.	1.6	40
27	CAUGHT IN THE ACT: GAS AND STELLAR VELOCITY DISPERSIONS IN A FAST QUIENCHING COMPACT STAR-FORMING GALAXY AT $z \approx 1.7$ . <i>Astrophysical Journal</i> , 2016, 820, 120.	1.6	39
28	A new stellar library in the region of the CO index at $2.3 \mu\text{m}$ . <i>Astronomy and Astrophysics</i> , 2008, 489, 885-909.	2.1	39
29	Spectral gradients in central cluster galaxies: further evidence of star formation in cooling flows. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 298, 977-996.	1.6	38
30	The missing light of the <i>Hubble</i> Ultra Deep Field. <i>Astronomy and Astrophysics</i> , 2019, 621, A133.	2.1	37
31	Optically Faint Massive Balmer Break Galaxies at $z > 3$ in the CANDELS/GOODS Fields. <i>Astrophysical Journal</i> , 2019, 876, 135.	1.6	37
32	PPAK integral field spectroscopy survey of the Orion nebula. <i>Astronomy and Astrophysics</i> , 2007, 465, 207-217.	2.1	37
33	Pathways to quiescence: SHARDS view on the star formation histories of massive quiescent galaxies at $1.0 < z < 1.5$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 3743-3768.	1.6	35
34	The Very Faint <i>K</i> -Band Afterglow of GRB 020819 and the Dust Extinction Hypothesis of the Dark Bursts. <i>Astrophysical Journal</i> , 2003, 592, 1025-1034.	1.6	35
35	Outer-disk reddening and gas-phase metallicities: The CALIFA connection. <i>Astronomy and Astrophysics</i> , 2016, 585, A47.	2.1	34
36	Ks Number Counts in the Groth and Coppi Fields. <i>Astrophysical Journal</i> , 2003, 595, 71-84.	1.6	32

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37	Spectral indices in cooling flow galaxies: evidence of star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 1995, 277, 502-522.	1.6	29
38	Stellar population gradients in Fornax cluster S0 galaxies: connecting bulge and disc evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 2063-2080.	1.6	27
39	Early-Type Galaxies in the Coma Cluster: A New Piece in the Calcium Puzzle. <i>Astrophysical Journal</i> , 2004, 614, L101-L104.	1.6	26
40	Morphologies and stellar populations of galaxies in the core of Abell 2218. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 376, 125-150.	1.6	26
41	VELOCITY DISPERSIONS AND STELLAR POPULATIONS OF THE MOST COMPACT AND MASSIVE EARLY-TYPE GALAXIES AT REDSHIFT $z \approx 1$ . <i>Astrophysical Journal Letters</i> , 2011, 738, L22.	3.0	26
42	EVIDENCE FOR INTERMEDIATE-AGE STELLAR POPULATIONS IN EARLY-TYPE GALAXIES FROM <i>K</i> -BAND SPECTROSCOPY. <i>Astrophysical Journal</i> , 2009, 705, L199-L203.	1.6	23
43	SHARDS: stellar populations and star formation histories of a mass-selected sample of 0.65 $z < 1.1$ galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 2136-2152.	1.6	23
44	Mg and TiO spectral features at the near-IR: spectrophotometric index definitions and empirical calibrations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 1895-1914.	1.6	20
45	Data boundary fitting using a generalized least-squares method. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 680-695.	1.6	20
46	On the nature of the extragalactic number counts in the <i>K</i> -band. <i>Astronomy and Astrophysics</i> , 2009, 494, 63-79.	2.1	19
47	Are dry mergers dry, moist or wet?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 1264-1282.	1.6	19
48	SHARDS: A GLOBAL VIEW OF THE STAR FORMATION ACTIVITY AT $z \approx 0.84$ and $z \approx 1.23$ . <i>Astrophysical Journal</i> , 2015, 812, 155.	1.6	16
49	Higher prevalence of X-ray selected AGN in intermediate-age galaxies up to $z \approx 1$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 3538-3549.	1.6	15
50	Synthetic RGB photometry of bright stars: definition of the standard photometric system and UCM library of spectrophotometric spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 3730-3748.	1.6	15
51	The link between the masses and central stellar populations of S0 galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 387, 660-676.	1.6	14
52	NGC 7469 as seen by MEGARA: new results from high-resolution IFU spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 3656-3675.	1.6	14
53	High-resolution MEGARA Integral-field Unit Spectroscopy and Structural Analysis of a Fast-rotating, Disky Bulge in NGC 7025. <i>Astrophysical Journal</i> , 2019, 871, 9.	1.6	13
54	KINEMATIC PROPERTIES AND STELLAR POPULATIONS OF FAINT EARLY-TYPE GALAXIES. II. LINE-STRENGTH MEASUREMENTS OF CENTRAL COMA GALAXIES. <i>Astrophysical Journal</i> , 2009, 691, 1862-1878.	1.6	12

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55	The First Gamma-Ray Emitting BL Lacertae Object at the Cosmic Dawn. <i>Astrophysical Journal Letters</i> , 2020, 903, L8.	3.0	12
56	MEGARA: the future optical IFU and multi-object spectrograph for the 10.4m GTC telescope. <i>Proceedings of SPIE</i> , 2012, , .	0.8	11
57	Evolution of the anti-truncated stellar profiles of S0 galaxies since $\langle z \rangle = 0.6$ in the SHARDS survey. <i>Astronomy and Astrophysics</i> , 2017, 604, A119.	2.1	10
58	EMIR: cryogenic NIR multi-object spectrograph for GTC. , 2000, 4008, 797.		9
59	MEGARA, the new intermediate-resolution optical IFU and MOS for GTC: getting ready for the telescope. <i>Proceedings of SPIE</i> , 2016, , .	0.8	9
60	Evaluating Human Photoreceptor Inputs from Night-Time Lights Using RGB Imaging Photometry. <i>Journal of Imaging</i> , 2019, 5, 49.	1.7	9
61	MEGARA: a new generation optical spectrograph for GTC. <i>Proceedings of SPIE</i> , 2014, , .	0.8	8
62	Mapping the ionized gas of the metal-poor H $\alpha$ galaxy PHL 293B with MEGARA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1638-1650.	1.6	8
63	MEGARA, the R=6000-20000 IFU and MOS of GTC. , 2018, , .		8
64	Episodic star formation in a group of LAEs at $\langle z \rangle = 5.07$ . <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014, 444, L68-L72.	1.2	7
65	First scientific observations with MEGARA at GTC. , 2018, , .		7
66	The Role of Cooling Flows in the Star Formation History of Central Cluster Galaxies. <i>Astrophysics and Space Science</i> , 1998, 263, 83-86.	0.5	6
67	Constraints on the evolutionary mechanisms of massive galaxies since $z \sim 1$ from their velocity dispersions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 704-720.	1.6	6
68	Evolution of the anti-truncated stellar profiles of S0 galaxies since $\langle z \rangle = 0.6$ in the SHARDS survey. <i>Astronomy and Astrophysics</i> , 2018, 615, A26.	2.1	6
69	The WIRCam Ultra Deep Survey (WUDS). <i>Astronomy and Astrophysics</i> , 2018, 620, A51.	2.1	6
70	MEGARA-GTC stellar spectral library: I. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 871-898.	1.6	6
71	Spatially Resolved Analysis of Neutral Winds, Stars, and Ionized Gas Kinematics with MEGARA/GTC: New Insights on the Nearby Galaxy UGC 10205. <i>Astrophysical Journal</i> , 2020, 890, 5.	1.6	6
72	EMIR at the GTC: results on the commissioning at the telescope. , 2016, , .		5

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73	FRIDA: diffraction-limited imaging and integral-field spectroscopy for the GTC. Proceedings of SPIE, 2016, , .	0.8	4
74	RGB photometric calibration of 15 million Gaia stars. Monthly Notices of the Royal Astronomical Society, 2021, 507, 318-329.	1.6	4
75	Proper handling of random errors and distortions in astronomical data analysis. , 2002, 4847, 297.		3
76	tesela: a new Virtual Observatory tool to determine blank fields for astronomical observations. Monthly Notices of the Royal Astronomical Society, 2011, 417, 3061-3071.	1.6	3
77	MIRADAS for the Gran Telescopio Canarias: system overview. Proceedings of SPIE, 2012, , .	0.8	3
78	FRIDA, the diffraction limited NIR imager and IFS for the Gran Telescopio Canarias: status report. Proceedings of SPIE, 2014, , .	0.8	3
79	MEGARA-GTC stellar spectral library " II. MEGASTAR first release. Monthly Notices of the Royal Astronomical Society, 2021, 501, 3568-3581.	1.6	3
80	Stellar Populations in Dwarf Elliptical Galaxies. Astrophysics and Space Science, 1998, 263, 159-162.	0.5	2
81	The Near-IR Calcium Triplet: Empirical Calibration and Stellar Populations Models. Astrophysics and Space Science, 2001, 277, 319-319.	0.5	2
82	MIRADAS for the Gran Telescopio Canarias. , 2016, , .		2
83	Stellar populations with MEGARA: The inner regions of NGC 7025. Astronomy and Astrophysics, 2022, 657, A95.	2.1	2
84	Towards an Understanding of the $\hat{H}$ 4000Å... Break Behaviour in Old Stellar Populations. Astrophysics and Space Science, 1998, 263, 167-170.	0.5	1
85	The $\hat{H}$ 4000Å... Break in Elliptical Galaxies. Astrophysics and Space Science, 2001, 277, 351-351.	0.5	1
86	Data Reduction Pipeline for EMIR; a near-IR multiobject spectrograph for the Spanish 10m telescope. , 2002, 4847, 402.		1
87	Deep blank-field catalogue for medium- and large-sized telescopes. Monthly Notices of the Royal Astronomical Society, 2012, 427, 679-687.	1.6	1
88	Near-IR narrow-band imaging with CIRCE at the Gran Telescopio Canarias: Searching for Ly $\alpha$ -emitters at $z \approx 9.3$ . Astronomy and Astrophysics, 2022, 659, A116.	2.1	1
89	A new insight of AGC198691 (Leoncino) galaxy with MEGARA at the GTC. Monthly Notices of the Royal Astronomical Society, 2021, 509, 6183-6204.	1.6	1
90	Spectroscopic Evidences for Star Formation in Cooling Flow Galaxies. Symposium - International Astronomical Union, 1996, 171, 349-349.	0.1	0

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91	Star Formation in Central Cluster Galaxies. Publications of the Astronomical Society of the Pacific, 2000, 112, 574-574.	1.0	0
92	A new stellar library in the K band for the empirical calibration of the CO index. Proceedings of the International Astronomical Union, 2006, 2, .	0.0	0
93	Central Stellar Populations of S0 Galaxies in the Fornax Cluster. Proceedings of the International Astronomical Union, 2006, 2, .	0.0	0
94	IFU observations of the core of Abell 2218. Proceedings of the International Astronomical Union, 2006, 2, .	0.0	0
95	New Empirical Fitting Functions of the Lick/IDS indices using MILES. Proceedings of the International Astronomical Union, 2006, 2, .	0.0	0
96	Effect of Environment on the Underlying Stellar Populations of Dwarf Elliptical Galaxies in the Coma Cluster. , 2009, , .		0
97	MILES SSP Models. Proceedings of the International Astronomical Union, 2009, 5, 65-68.	0.0	0
98	Stellar population study in early-type galaxies: an approach from the K band. Proceedings of the International Astronomical Union, 2009, 5, 85-88.	0.0	0
99	Current status of FRIDA: diffraction limited NIR instrument for the GTC. Proceedings of SPIE, 2012, , .	0.8	0
100	Understanding biases when fitting disk truncations. Proceedings of the International Astronomical Union, 2016, 11, 303-303.	0.0	0
101	Stellar Populations in Virgo Bright Spheroidals. , 2001, , 149-152.		0
102	Comparing SFR Indicators from Multiwavelength Data in Galaxies at Intermediate Redshifts. , 2003, , 39-42.		0
103	A New Spectral Stellar Library for Population Synthesis. , 2003, , 159-162.		0
104	Is the IMF Varying Among Ellipticals?. , 2003, , 55-58.		0
105	GUAIX: The UCM Group of Extragalactic Astrophysics and Astronomical Instrumentation. Thirty Years of Astronomical Discovery With UKIRT, 2009, , 169-170.	0.3	0
106	GUAIX: The UCM Group of Extragalactic Astrophysics and Astronomical Instrumentation. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 499-499.	0.3	0
107	First results using a new near-infrared 1% narrow-band filter in the GTC 10.4m telescope to detect galaxies at the dawn of the universe. , 2018, , .		0
108	A steep bandpass interference filter with FWHM 11nm centered at 1254nm for studying Lyman Alpha signatures of highly redshifted galaxies. , 2019, , .		0

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109	Integral Field Spectroscopy of the Core of Abell 2218. Globular Clusters - Guides To Galaxies, 2007, , 193-198.	0.1	0
110	Nod & Shuffle 3D Spectroscopy. , 2006, , 99-108.		0