

Jaime Zamorano

List of Publications by Year in descending order

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124
papers

4,375
citations

117453

34
h-index

114278

63
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134
all docs

134
docs citations

134
times ranked

4004
citing authors

#	ARTICLE	IF	CITATIONS
1	The Stellar Mass Assembly of Galaxies from $z=0$ to $z=4$: Analysis of a Sample Selected in the Rest-frame Near-Infrared with Spitzer. <i>Astrophysical Journal</i> , 2008, 675, 234-261.	1.6	502
2	The Current Star Formation Rate of the Local Universe. <i>Astrophysical Journal</i> , 1995, 455, .	1.6	265
3	RADIAL DISTRIBUTION OF STARS, GAS, AND DUST IN SINGS GALAXIES. II. DERIVED DUST PROPERTIES. <i>Astrophysical Journal</i> , 2009, 701, 1965-1991.	1.6	197
4	High-Resolution Imagery of Earth at Night: New Sources, Opportunities and Challenges. <i>Remote Sensing</i> , 2015, 7, 1-23.	1.8	168
5	Specific Star Formation Rate Profiles in Nearby Spiral Galaxies: Quantifying the Inside-Out Formation of Disks. <i>Astrophysical Journal</i> , 2007, 658, 1006-1026.	1.6	155
6	Worldwide variations in artificial skyglow. <i>Scientific Reports</i> , 2015, 5, 8409.	1.6	133
7	A Randomized Controlled Trial to Prevent Post-Operative Atrial Fibrillation by Antioxidant Reinforcement. <i>Journal of the American College of Cardiology</i> , 2013, 62, 1457-1465.	1.2	127
8	RADIAL DISTRIBUTION OF STARS, GAS AND DUST IN SINGS GALAXIES. I. SURFACE PHOTOMETRY AND MORPHOLOGY. <i>Astrophysical Journal</i> , 2009, 703, 1569-1596.	1.6	125
9	UV-TO-FIR ANALYSIS OF SPITZER /IRAC SOURCES IN THE EXTENDED GROTH STRIP. I. MULTI-WAVELENGTH PHOTOMETRY AND SPECTRAL ENERGY DISTRIBUTIONS. <i>Astrophysical Journal, Supplement Series</i> , 2011, 193, 13.	3.0	98
10	UV-TO-FIR ANALYSIS OF SPITZER /IRAC SOURCES IN THE EXTENDED GROTH STRIP. II. PHOTOMETRIC REDSHIFTS, STELLAR MASSES, AND STAR FORMATION RATES. <i>Astrophysical Journal, Supplement Series</i> , 2011, 193, 30.	3.0	97
11	SHARDS: AN OPTICAL SPECTRO-PHOTOMETRIC SURVEY OF DISTANT GALAXIES. <i>Astrophysical Journal</i> , 2013, 762, 46.	1.6	95
12	Sky Quality Meter measurements in a colour-changing world. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 2966-2979.	1.6	90
13	Standardized spectral and radiometric calibration of consumer cameras. <i>Optics Express</i> , 2019, 27, 19075.	1.7	86
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. <i>Remote Sensing of Environment</i> , 2019, 224, 92-103.	4.6	85
15	The H α -based Star Formation Rate Density of the Universe at $z=0.84$. <i>Astrophysical Journal</i> , 2008, 677, 169-185.	1.6	83
16	Spatial Analysis of the H α Emission in the Local Star-forming UCM Galaxies. <i>Astrophysical Journal</i> , 2003, 591, 827-842.	1.6	77
17	The galaxy major merger fraction to $z \sim 1$. <i>Astronomy and Astrophysics</i> , 2009, 501, 505-518.	2.1	68
18	Evolution of the energy consumed by street lighting in Spain estimated with DMSP-OLS data. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 139, 109-117.	1.1	66

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19	RADIAL DISTRIBUTION OF STARS, GAS, AND DUST IN SINGS GALAXIES. III. MODELING THE EVOLUTION OF THE STELLAR COMPONENT IN GALAXY DISKS. <i>Astrophysical Journal</i> , 2011, 731, 10.	1.6	64
20	Spectroscopic Properties and Luminosity Distribution of the Universidad Complutense de Madrid Survey Galaxies. <i>Astrophysical Journal</i> , 1997, 475, 502-511.	1.6	62
21	Exploring the Evolutionary Paths of the Most Massive Galaxies since $z \approx 2$. <i>Astrophysical Journal</i> , 2008, 687, 50-58.	1.6	61
22	A minor merger origin for stellar inner discs and rings in spiral galaxies. <i>Astronomy and Astrophysics</i> , 2011, 533, A104.	2.1	60
23	Antioxidant Therapy Reduces Oxidative and Inflammatory Tissue Damage in Patients Subjected to Cardiac Surgery with Extracorporeal Circulation. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2011, 108, 256-262.	1.2	59
24	Survey of emission-line galaxies: Universidad Complutense de Madrid list. <i>Astrophysical Journal</i> , Supplement Series, 1994, 95, 387.	3.0	59
25	Formation of S0 galaxies through mergers. <i>Astronomy and Astrophysics</i> , 2015, 573, A78.	2.1	54
26	Formation of S0 galaxies through mergers. <i>Astronomy and Astrophysics</i> , 2014, 570, A103.	2.1	53
27	Stellar populations in local star-forming galaxies – II. Recent star formation properties and stellar masses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 338, 525-543.	1.6	51
28	Prevention of atrial fibrillation following cardiac surgery: Basis for a novel therapeutic strategy based on non-hypoxic myocardial preconditioning. , 2008, 118, 104-127.		50
29	Use of vitamins C and E as a prophylactic therapy to prevent postoperative atrial fibrillation. <i>International Journal of Cardiology</i> , 2010, 138, 221-228.	0.8	50
30	The [O III] λ 3727 Luminosity Function of the Local Universe. <i>Astrophysical Journal</i> , 2002, 570, L1-L4.	1.6	49
31	H α -emitting galaxies and the star formation rate density at $z \approx 0.24$. <i>Astronomy and Astrophysics</i> , 2001, 379, 798-806.	2.1	48
32	The nature of the diffuse light near cities detected in nighttime satellite imagery. <i>Scientific Reports</i> , 2020, 10, 7829.	1.6	47
33	The spectral amplification effect of clouds to the night sky radiance in Madrid. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 181, 11-23.	1.1	38
34	THE MINOR ROLE OF GAS-RICH MAJOR MERGERS IN THE RISE OF INTERMEDIATE-MASS EARLY TYPES AT $z \approx 1$. <i>Astrophysical Journal</i> , 2010, 710, 1170-1178.	1.6	36
35	Survey for Emission-Line Galaxies: Universidad Complutense de Madrid List 2. <i>Astrophysical Journal</i> , Supplement Series, 1996, 105, 343.	3.0	36
36	Effects of the COVID-19 Lockdown on Urban Light Emissions: Ground and Satellite Comparison. <i>Remote Sensing</i> , 2021, 13, 258.	1.8	33

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37	INTEGRAL FIELD SPECTROSCOPY AND MULTI-WAVELENGTH IMAGING OF THE NEARBY SPIRAL GALAXY NGC 5668: AN UNUSUAL FLATTENING IN METALLICITY GRADIENT. <i>Astrophysical Journal</i> , 2012, 754, 61.	1.6	31
38	Evolution along the sequence of S0 Hubble types induced by dry minor mergers. <i>Astronomy and Astrophysics</i> , 2012, 547, A48.	2.1	30
39	Monitoring Long-Term Trends in the Anthropogenic Night Sky Brightness. <i>Sustainability</i> , 2019, 11, 3070.	1.6	30
40	Absolute Radiometric Calibration of TESS-W and SQM Night Sky Brightness Sensors. <i>Sensors</i> , 2019, 19, 1336.	2.1	29
41	On the buildup of massive early-type galaxies at $z < 1$. <i>Astronomy and Astrophysics</i> , 2010, 519, A55.	2.1	28
42	Evolutionary paths among different red galaxy types at $0.3 < z < 1.5$ and the late buildup of massive E-S0s through major mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 999-1019.	1.6	28
43	Atlas of astronaut photos of Earth at night. <i>Astronomy and Geophysics</i> , 2014, 55, 4.36-4.36.	0.1	28
44	STARS4ALL Night Sky Brightness Photometer. <i>International Journal of Sustainable Lighting</i> , 0, 18, 49-54.	1.2	28
45	Spectro-photometric close pairs in GOODS-S: major and minor companions of intermediate-mass galaxies. <i>Astronomy and Astrophysics</i> , 2010, 518, A20.	2.1	27
46	Evolution along the sequence of S0 Hubble types induced by dry minor mergers. <i>Astronomy and Astrophysics</i> , 2013, 552, A67.	2.1	26
47	Testing sky brightness models against radial dependency: A dense two dimensional survey around the city of Madrid, Spain. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 181, 52-66.	1.1	26
48	Evolution induced by dry minor mergers onto fast-rotator S0 galaxies. <i>Astronomy and Astrophysics</i> , 2014, 565, A31.	2.1	24
49	Statistical modelling and satellite monitoring of upward light from public lighting. <i>Lighting Research and Technology</i> , 2016, 48, 810-822.	1.2	24
50	Star formation properties of Universidad Complutense de Madrid survey galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 316, 357-373.	1.6	23
51	Stellar populations in local star-forming galaxies – I. Data and modelling procedure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 338, 508-524.	1.6	23
52	The 2011 October Draconids outburst – I. Orbital elements, meteoroid fluxes and 21P/Giacobiniâ€™s Zinner delivered mass to Earth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 560-570.	1.6	23
53	Light pollution offshore: Zenithal sky glow measurements in the mediterranean coastal waters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 210, 91-100.	1.1	23
54	<i>Pseudomonas syringae</i> pv. tomato exploits light signals to optimize virulence and colonization of leaves. <i>Environmental Microbiology</i> , 2018, 20, 4261-4280.	1.8	23

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55	Colour remote sensing of the impact of artificial light at night (II): Calibration of DSLR-based images from the International Space Station. <i>Remote Sensing of Environment</i> , 2021, 264, 112611.	4.6	23
56	The mass-radius relation in binary systems. <i>Astrophysics and Space Science</i> , 1985, 114, 259-269.	0.5	19
57	A Contribution to the Selection of Emission-Line Galaxies Using Narrowband Filters in the Optical Airglow Windows. <i>Publications of the Astronomical Society of the Pacific</i> , 2007, 119, 30-49.	1.0	19
58	On the nature of the extragalactic number counts in the K -band. <i>Astronomy and Astrophysics</i> , 2009, 494, 63-79.	2.1	19
59	Survey for Emission-Line Galaxies: Universidad Complutense de Madrid List 3. <i>Astrophysical Journal, Supplement Series</i> , 1999, 122, 415-430.	3.0	18
60	Magnitude to luminance conversions and visual brightness of the night sky. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2429-2437.	1.6	18
61	Luminosity and Stellar Mass Functions of Local Star-forming Galaxies. <i>Astrophysical Journal</i> , 2003, 587, L27-L30.	1.6	16
62	STAR FORMATION RATES AND STELLAR MASSES OF $H\alpha$ SELECTED STAR-FORMING GALAXIES AT $z = 0.84$: A QUANTIFICATION OF THE DOWNSIZING. <i>Astrophysical Journal</i> , 2011, 740, 47.	1.6	16
63	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
64	Orbits and emission spectra from the 2014 Camelopardalids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 3309-3314.	1.6	12
65	Analysis of two superbolides with a cometary origin observed over the Iberian Peninsula. <i>Icarus</i> , 2014, 233, 27-35.	1.1	12
66	Evolution of Brightness and Color of the Night Sky in Madrid. <i>Remote Sensing</i> , 2021, 13, 1511.	1.8	12
67	Non-hypoxic preconditioning of myocardium against postoperative atrial fibrillation: Mechanism based on enhancement of the antioxidant defense system. <i>Medical Hypotheses</i> , 2007, 69, 1242-1248.	0.8	11
68	MEGARA: the future optical IFU and multi-object spectrograph for the 10.4m GTC telescope. <i>Proceedings of SPIE</i> , 2012, , .	0.8	11
69	Trajectory, orbit, and spectroscopic analysis of a bright fireball observed over Spain on April 13, 2013. <i>Astronomy and Astrophysics</i> , 2014, 569, A104.	2.1	11
70	[TSUP]12/[TSUP]CO Mapping of the Low-Metallicity Blue Compact Dwarf Galaxy Markarian 86. <i>Astrophysical Journal</i> , 2002, 573, L101-L105.	1.6	11
71	3D spectroscopy of local luminous compact blue galaxies: kinematics of NGC 7673. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 1397-1406.	1.6	10
72	Three-dimensional spectroscopy of local luminous compact blue galaxies: kinematic maps of a sample of 22 objects. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 2350-2366.	1.6	10

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73	The spectrum of fireball light taken with a 2-m telescope. <i>Earth, Moon and Planets</i> , 1995, 68, 217-222.	0.3	9
74	Global velocity field and bubbles in the blue compact dwarf galaxy Mrk 86. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 306, 975-987.	1.6	9
75	EMIR: cryogenic NIR multi-object spectrograph for GTC. , 2000, 4008, 797.		9
76	Puerto Lı́pice eucrite fall: Strewn field, physical description, probable fireball trajectory, and orbit. <i>Meteoritics and Planetary Science</i> , 2009, 44, 175-186.	0.7	9
77	Zernike power spectra of clear and cloudy light-polluted urban night skies. <i>Applied Optics</i> , 2015, 54, 4120.	2.1	9
78	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
79	Evaluating Human Photoreceptor Inputs from Night-Time Lights Using RGB Imaging Photometry. <i>Journal of Imaging</i> , 2019, 5, 49.	1.7	9
80	Multifrequency observations of the interacting galaxy NGC 4922 (UCM 1259 + 2934). <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 302, 561-570.	1.6	8
81	Zernike analysis of all-sky night brightness maps. <i>Applied Optics</i> , 2014, 53, 2677.	0.9	8
82	MEGARA: a new generation optical spectrograph for GTC. <i>Proceedings of SPIE</i> , 2014, , .	0.8	8
83	Analysis of the September ı́-Perseid outburst in 2013. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 2501-2507.	1.6	8
84	MEGARA, the R=6000-20000 IFU and MOS of GTC. , 2018, , .		8
85	UCM 2257 + 2438, a new narrow-line Seyfert 1 galaxy. <i>Astronomical Journal</i> , 1992, 104, 1000.	1.9	7
86	First scientific observations with MEGARA at GTC. , 2018, , .		7
87	Mapping the Melatonin Suppression, Star Light and Induced Photosynthesis Indices with the LANcube. <i>Remote Sensing</i> , 2020, 12, 3954.	1.8	6
88	IRAS observations of H-alpha selected emission-line galaxies. <i>Astronomical Journal</i> , 1993, 105, 427.	1.9	6
89	Sliced-pupil grating: a novel concept for increasing spectral resolution. <i>Proceedings of SPIE</i> , 2011, , .	0.8	5
90	Analysis of a superbolide from a damocloid observed over Spain on 2012 July 13. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 3656-3662.	1.6	5

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91	LICA AstroCalc, a software to analyze the impact of artificial light: Extracting parameters from the spectra of street and indoor lamps. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 214, 33-38.	1.1	5
92	On the Relation between the Astronomical and Visual Photometric Systems in Specifying the Brightness of the Night Sky for Mesopically Adapted Observers. LEUKOS - Journal of Illuminating Engineering Society of North America, 0, , 1-12.	1.5	4
93	RGB photometric calibration of 15 million Gaia stars. Monthly Notices of the Royal Astronomical Society, 2021, 507, 318-329.	1.6	4
94	New emission-line galaxies identified from an objective prism survey. Astrophysics and Space Science, 1990, 170, 353-360.	0.5	3
95	Proper handling of random errors and distortions in astronomical data analysis. , 2002, 4847, 297.		3
96	Integral field spectroscopy of local LCBGs: NGC 7673, a case study. Physical properties of star-forming regions. Monthly Notices of the Royal Astronomical Society, 2011, 411, 1819-1832.	1.6	3
97	Multispectral estimation of retinal photoreceptor inputs. Photonics Letters of Poland, 2019, 11, 60.	0.2	3
98	Optical design for MEGARA: a multi-object spectrograph for the GTC. , 2011, , .		2
99	VIENTOS: a feasibility study of innovative pupil systems for the new generation of instruments in the large telescopes. Proceedings of SPIE, 2012, , .	0.8	2
100	Creating SOs with Major Mergers: A 3D View. Galaxies, 2015, 3, 202-211.	1.1	2
101	Optimizing Results from Automatic Objective-Prism Surveys. Astrophysics and Space Science, 1998, 263, 95-98.	0.5	1
102	Data Reduction Pipeline for EMIR; a near-IR multiobject spectrograph for the Spanish 10m telescope. , 2002, 4847, 402.		1
103	NIXNOX project: Sites in Spain where citizens can enjoy dark starry skies. Proceedings of the International Astronomical Union, 2012, 10, 739-739.	0.0	1
104	Scientific CCD characterisation at Universidad Complutense LICA Laboratory. Proceedings of SPIE, 2012, , .	0.8	1
105	Evolutionary paths among different red galaxy types at $0.3 < z < 1.5$ and the build-up of massive E-SO's. Proceedings of the International Astronomical Union, 2012, 8, 176-176.	0.0	1
106	Creating lenticular galaxies with mergers. Proceedings of the International Astronomical Union, 2016, 11, 114-116.	0.0	1
107	The Merger Fraction Evolution up to $z \sim 1$. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 307-307.	0.3	1
108	Ultraviolet to far infrared self-consistent analysis of the stellar populations of massive starburst galaxies at intermediate redshifts. Monthly Notices of the Royal Astronomical Society, 2022, 513, 1175-1197.	1.6	1

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109	A morphological description of the Sun observed in Honduras during the total solar eclipse of 11 July 1991. AIP Conference Proceedings, 1995, , .	0.3	0
110	NIR Properties of the UCM Star-Forming Galaxies. Astrophysics and Space Science, 1998, 263, 147-150.	0.5	0
111	MrK86: A 'Not-So-Dark' Galaxy. Astrophysics and Space Science, 1998, 263, 151-154.	0.5	0
112	The H β SFR of the Universe at $z = 0.24$ and $z = 0.4$. Astrophysics and Space Science, 2001, 277, 583-583.	0.5	0
113	Astronomy and astrophysics communication in the UCM Observatory. EAS Publications Series, 2005, 16, 111-114.	0.3	0
114	The H β -Based Evolution of Star-Forming Galaxies from $z = 0.8$ to Now. , 0, , 384-385.		0
115	The Evolution of Passive Galaxies since $z=1$: Major Mergers vs Secular Processes. Proceedings of the International Astronomical Union, 2009, 5, 209-212.	0.0	0
116	A Minor-Merger Origin for Inner Disks and Rings in Early-Type Galaxies. , 2010, , .		0
117	Popularizing a scientific project: star forming rate in different ages of the Universe. EAS Publications Series, 2005, 16, 183-193.	0.3	0
118	Teaching Astronomy at the UCM Observatory. EAS Publications Series, 2005, 16, 213-217.	0.3	0
119	GUAIX: The UCM Group of Extragalactic Astrophysics and Astronomical Instrumentation. Thirty Years of Astronomical Discovery With UKIRT, 2009, , 169-170.	0.3	0
120	Integral Field Spectroscopy of Local Luminous Compact Blue Galaxies: NGC 7673, a Case Study. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 267-267.	0.3	0
121	GUAIX: The UCM Group of Extragalactic Astrophysics and Astronomical Instrumentation. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 499-499.	0.3	0
122	Reconciling a Significant Hierarchical Assembly of Massive Early-Type Galaxies at $z \approx 1$ with Mass Downsizing. Thirty Years of Astronomical Discovery With UKIRT, 2011, , 211-213.	0.3	0
123	Understanding Current Star Formation Processes in Galaxies at Different Redshifts. , 0, , 479-480.		0
124	An H α Approach to the Evolution of the Galaxy Population of the Universe. , 2007, , 209-216.		0