

# Jaime Zamorano

## List of Publications by Citations

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107  
papers

3,685  
citations

33  
h-index

58  
g-index

134  
ext. papers

3,990  
ext. citations

3.6  
avg, IF

4.97  
L-index

#	Paper	IF	Citations
107	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> , <b>2008</b> , 675, 234-261	4.7	458
106	The Current Star Formation Rate of the Local Universe. <i>Astrophysical Journal</i> , <b>1995</b> , 455,	4.7	257
105	RADIAL DISTRIBUTION OF STARS, GAS, AND DUST IN SINGS GALAXIES. II. DERIVED DUST PROPERTIES. <i>Astrophysical Journal</i> , <b>2009</b> , 701, 1965-1991	4.7	174
104	Specific Star Formation Rate Profiles in Nearby Spiral Galaxies: Quantifying the Inside-Out Formation of Disks. <i>Astrophysical Journal</i> , <b>2007</b> , 658, 1006-1026	4.7	136
103	High-Resolution Imagery of Earth at Night: New Sources, Opportunities and Challenges. <i>Remote Sensing</i> , <b>2015</b> , 7, 1-23	5	126
102	RADIAL DISTRIBUTION OF STARS, GAS AND DUST IN SINGS GALAXIES. I. SURFACE PHOTOMETRY AND MORPHOLOGY. <i>Astrophysical Journal</i> , <b>2009</b> , 703, 1569-1596	4.7	112
101	Worldwide variations in artificial skyglow. <i>Scientific Reports</i> , <b>2015</b> , 5, 8409	4.9	103
100	A randomized controlled trial to prevent post-operative atrial fibrillation by antioxidant reinforcement. <i>Journal of the American College of Cardiology</i> , <b>2013</b> , 62, 1457-65	15.1	99
99	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> , <b>2011</b> , 193, 30	8	86
98	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> , <b>2011</b> , 193, 13	8	86
97	The H $\alpha$ -based Star Formation Rate Density of the Universe at $z=0.84$ . <i>Astrophysical Journal</i> , <b>2008</b> , 677, 169-185	4.7	79
96	Spatial Analysis of the H $\alpha$ Emission in the Local Star-forming UCM Galaxies. <i>Astrophysical Journal</i> , <b>2003</b> , 591, 827-842	4.7	73
95	SHARDS: AN OPTICAL SPECTRO-PHOTOMETRIC SURVEY OF DISTANT GALAXIES. <i>Astrophysical Journal</i> , <b>2013</b> , 762, 46	4.7	70
94	Sky Quality Meter measurements in a colour-changing world. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 467, 2966-2979	4.3	68
93	The galaxy major merger fraction to $z \sim 1$ . <i>Astronomy and Astrophysics</i> , <b>2009</b> , 501, 505-518	5.1	61
92	Spectroscopic Properties and Luminosity Distribution of the Universidad Complutense de Madrid Survey Galaxies. <i>Astrophysical Journal</i> , <b>1997</b> , 475, 502-511	4.7	59
91	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> , <b>2011</b> , 731, 10	4.7	57

90	Survey of emission-line galaxies: Universidad Complutense de Madrid list. <i>Astrophysical Journal, Supplement Series</i> , <b>1994</b> , 95, 387	8	57
89	Exploring the Evolutionary Paths of the Most Massive Galaxies since $z \sim 2$ . <i>Astrophysical Journal</i> , <b>2008</b> , 687, 50-58	4.7	56
88	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> , <b>2019</b> , 224, 92-103	13.2	55
87	Evolution of the energy consumed by street lighting in Spain estimated with DMSP-OLS data. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2014</b> , 139, 109-117	2.1	55
86	A minor merger origin for stellar inner discs and rings in spiral galaxies. <i>Astronomy and Astrophysics</i> , <b>2011</b> , 533, A104	5.1	54
85	Formation of S0 galaxies through mergers. <i>Astronomy and Astrophysics</i> , <b>2014</b> , 570, A103	5.1	49
84	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> , <b>2011</b> , 108, 256-62	3.1	48
83	High-redshift galaxies and the star formation rate density at $z \sim 0.24$ . <i>Astronomy and Astrophysics</i> , <b>2001</b> , 379, 798-806	5.1	48
82	Formation of S0 galaxies through mergers. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 573, A78	5.1	47
81	Prevention of atrial fibrillation following cardiac surgery: basis for a novel therapeutic strategy based on non-hypoxic myocardial preconditioning <b>2008</b> , 118, 104-27		47
80	Standardized spectral and radiometric calibration of consumer cameras. <i>Optics Express</i> , <b>2019</b> , 27, 19075-19101	3.9	46
79	The [O III] $\lambda 4960$ Luminosity Function of the Local Universe. <i>Astrophysical Journal</i> , <b>2002</b> , 570, L1-L4	4.7	46
78	Stellar populations in local star-forming galaxies -- II. Recent star formation properties and stellar masses. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2003</b> , 338, 525-543	4.3	45
77	Use of vitamins C and E as a prophylactic therapy to prevent postoperative atrial fibrillation. <i>International Journal of Cardiology</i> , <b>2010</b> , 138, 221-8	3.2	41
76	THE MINOR ROLE OF GAS-RICH MAJOR MERGERS IN THE RISE OF INTERMEDIATE-MASS EARLY TYPES AT $z \sim 1$ . <i>Astrophysical Journal</i> , <b>2010</b> , 710, 1170-1178	4.7	34
75	Survey for Emission-Line Galaxies: Universidad Complutense de Madrid List 2. <i>Astrophysical Journal, Supplement Series</i> , <b>1996</b> , 105, 343	8	34
74	The spectral amplification effect of clouds to the night sky radiance in Madrid. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2016</b> , 181, 11-23	2.1	32
73	Evolution along the sequence of S0 Hubble types induced by dry minor mergers. <i>Astronomy and Astrophysics</i> , <b>2012</b> , 547, A48	5.1	30

72	INTEGRAL FIELD SPECTROSCOPY AND MULTI-WAVELENGTH IMAGING OF THE NEARBY SPIRAL GALAXY NGC 5668: AN UNUSUAL FLATTENING IN METALLICITY GRADIENT. <i>Astrophysical Journal</i> , <b>2012</b> , 754, 61	4.7	28
71	The nature of the diffuse light near cities detected in nighttime satellite imagery. <i>Scientific Reports</i> , <b>2020</b> , 10, 7829	4.9	27
70	On the buildup of massive early-type galaxies at $z \approx 1$ . <i>Astronomy and Astrophysics</i> , <b>2010</b> , 519, A55	5.1	27
69	Evolutionary paths among different red galaxy types at 0.3. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2013</b> , 428, 999-1019	4.3	26
68	Spectro-photometric close pairs in GOODS-S: major and minor companions of intermediate-mass galaxies. <i>Astronomy and Astrophysics</i> , <b>2010</b> , 518, A20	5.1	25
67	Evolution induced by dry minor mergers onto fast-rotator S0 galaxies. <i>Astronomy and Astrophysics</i> , <b>2014</b> , 565, A31	5.1	24
66	Evolution along the sequence of S0 Hubble types induced by dry minor mergers. <i>Astronomy and Astrophysics</i> , <b>2013</b> , 552, A67	5.1	23
65	Star formation properties of Universidad Complutense de Madrid survey galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2000</b> , 316, 357-373	4.3	23
64	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> , <b>2016</b> , 181, 52-66	2.1	22
63	Atlas of astronaut photos of Earth at night. <i>Astronomy and Geophysics</i> , <b>2014</b> , 55, 4.36-4.36	0.2	22
62	Effects of the COVID-19 Lockdown on Urban Light Emissions: Ground and Satellite Comparison. <i>Remote Sensing</i> , <b>2021</b> , 13, 258	5	21
61	The 2011 October Draconids outburst II. Orbital elements, meteoroid fluxes and 21P/Giacobini-Zinner delivered mass to Earth. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2013</b> , 433, 560-570	4.3	20
60	Absolute Radiometric Calibration of TESS-W and SQM Night Sky Brightness Sensors. <i>Sensors</i> , <b>2019</b> , 19,	3.8	18
59	On the nature of the extragalactic number counts in the K-band. <i>Astronomy and Astrophysics</i> , <b>2009</b> , 494, 63-79	5.1	18
58	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> , <b>2007</b> , 119, 30-49	5	18
57	Stellar populations in local star-forming galaxies -- I. Data and modelling procedure. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2003</b> , 338, 508-524	4.3	18
56	Monitoring Long-Term Trends in the Anthropogenic Night Sky Brightness. <i>Sustainability</i> , <b>2019</b> , 11, 3070	3.6	17
55	Statistical modelling and satellite monitoring of upward light from public lighting. <i>Lighting Research and Technology</i> , <b>2016</b> , 48, 810-822	2	17

54	Survey for Emission-Line Galaxies: Universidad Complutense de Madrid List 3*. <i>Astrophysical Journal, Supplement Series</i> , <b>1999</b> , 122, 415-430	8	17
53	Luminosity and Stellar Mass Functions of Local Star-forming Galaxies. <i>Astrophysical Journal</i> , <b>2003</b> , 587, L27-L30	4.7	16
52	The mass-radius relation in binary systems. <i>Astrophysics and Space Science</i> , <b>1985</b> , 114, 259-269	1.6	16
51	STARS4ALL Night Sky Brightness Photometer. <i>International Journal of Sustainable Lighting</i> , <b>18</b> , 49-54	1.5	16
50	Light pollution offshore: Zenithal sky glow measurements in the mediterranean coastal waters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2018</b> , 210, 91-100	2.1	15
49	<i>Pseudomonas syringae</i> pv. tomato exploits light signals to optimize virulence and colonization of leaves. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 4261-4280	5.2	14
48	STAR FORMATION RATES AND STELLAR MASSES OF H $\alpha$ SELECTED STAR-FORMING GALAXIES ATz= 0.84: A QUANTIFICATION OF THE DOWNSIZING. <i>Astrophysical Journal</i> , <b>2011</b> , 740, 47	4.7	14
47	Magnitude to luminance conversions and visual brightness of the night sky. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 493, 2429-2437	4.3	12
46	Orbits and emission spectra from the 2014 Camelopardalids. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2014</b> , 445, 3309-3314	4.3	11
45	Analysis of two superbolides with a cometary origin observed over the Iberian Peninsula. <i>Icarus</i> , <b>2014</b> , 233, 27-35	3.8	10
44	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> , <b>2011</b> , 418, 2350-2366	4.3	10
43	3D spectroscopy of local luminous compact blue galaxies: kinematics of NGC 7673. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2010</b> , 402, 1397-1406	4.3	10
42	Zernike power spectra of clear and cloudy light-polluted urban night skies <b>2015</b> , 54, 4120		9
41	Trajectory, orbit, and spectroscopic analysis of a bright fireball observed over Spain on April 13, 2013. <i>Astronomy and Astrophysics</i> , <b>2014</b> , 569, A104	5.1	9
40	Non-hypoxic preconditioning of myocardium against postoperative atrial fibrillation: mechanism based on enhancement of the antioxidant defense system. <i>Medical Hypotheses</i> , <b>2007</b> , 69, 1242-8	3.8	9
39	Global velocity field and bubbles in the blue compact dwarf galaxy Mrk 86. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>1999</b> , 306, 975-987	4.3	9
38	[TSUP]12/[TSUP]CO Mapping of the Low-Metallicity Blue Compact Dwarf Galaxy Markarian 86. <i>Astrophysical Journal</i> , <b>2002</b> , 573, L101-L105	4.7	9
37	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> , <b>2021</b> , 264, 112611	13.2	9

36	Evaluating Human Photoreceptor Inputs from Night-Time Lights Using RGB Imaging Photometry. <i>Journal of Imaging</i> , <b>2019</b> , 5,	3.1	8
35	Zernike analysis of all-sky night brightness maps. <i>Applied Optics</i> , <b>2014</b> , 53, 2677-86	1.7	8
34	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> , <b>2021</b> , 504, 3730-3748 <sup>8</sup>	4.3	8
33	Multifrequency observations of the interacting galaxy NGC 4922 (UCM 1259 + 2934). <i>Monthly Notices of the Royal Astronomical Society</i> , <b>1999</b> , 302, 561-570	4.3	7
32	UCM 2257 + 2438, a new narrow-line Seyfert 1 galaxy. <i>Astronomical Journal</i> , <b>1992</b> , 104, 1000	4.9	7
31	Puerto Lbice eucrite fall: Strewn field, physical description, probable fireball trajectory, and orbit. <i>Meteoritics and Planetary Science</i> , <b>2009</b> , 44, 175-186	2.8	6
30	EMIR: cryogenic NIR multi-object spectrograph for GTC <b>2000</b> , 4008, 797		6
29	The spectrum of fireball light taken with a 2-m telescope. <i>Earth, Moon and Planets</i> , <b>1995</b> , 68, 217-222	0.6	6
28	IRAS observations of H-alpha selected emission-line galaxies. <i>Astronomical Journal</i> , <b>1993</b> , 105, 427	4.9	6
27	MEGARA, the new intermediate-resolution optical IFU and MOS for GTC: getting ready for the telescope <b>2016</b> ,		6
26	Analysis of the September EPerseid outburst in 2013. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 480, 2501-2507	4.3	5
25	Analysis of a superbolide from a damocloid observed over Spain on 2012 July 13. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2013</b> , 436, 3656-3662	4.3	5
24	MEGARA, the R=6000-20000 IFU and MOS of GTC <b>2018</b> ,		5
23	First scientific observations with MEGARA at GTC <b>2018</b> ,		5
22	Evolution of Brightness and Color of the Night Sky in Madrid. <i>Remote Sensing</i> , <b>2021</b> , 13, 1511	5	4
21	Integral field spectroscopy of local LCBGs: NGC 7673, a case study. Physical properties of star-forming regions. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2011</b> , 411, 1819-1832	4.3	3
20	New emission-line galaxies identified from an objective prism survey. <i>Astrophysics and Space Science</i> , <b>1990</b> , 170, 353-360	1.6	3
19	Mapping the Melatonin Suppression, Star Light and Induced Photosynthesis Indices with the LANcube. <i>Remote Sensing</i> , <b>2020</b> , 12, 3954	5	2

18	LICA AstroCalc, a software to analyze the impact of artificial light: Extracting parameters from the spectra of street and indoor lamps. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2018</b> , 214, 33-38	2.1	2
17	MEGARA: a new generation optical spectrograph for GTC <b>2014</b> ,		2
16	Creating S0s with Major Mergers: A 3D View. <i>Galaxies</i> , <b>2015</b> , 3, 202-211	2	2
15	MEGARA: the future optical IFU and multi-object spectrograph for the 10.4m GTC telescope <b>2012</b> ,		2
14	Proper handling of random errors and distortions in astronomical data analysis <b>2002</b> , 4847, 297		2
13	Multispectral estimation of retinal photoreceptor inputs. <i>Photonics Letters of Poland</i> , <b>2019</b> , 11, 60	2.1	2
12	On the Relation between the Astronomical and Visual Photometric Systems in Specifying the Brightness of the Night Sky for Mesopically Adapted Observers. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 1-12	3.5	2
11	RGB photometric calibration of 15 million Gaia stars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 318-329	4.3	2
10	Creating lenticular galaxies with mergers. <i>Proceedings of the International Astronomical Union</i> , <b>2016</b> , 11, 114-116	0.1	1
9	NIXNOX project: Sites in Spain where citizens can enjoy dark starry skies. <i>Proceedings of the International Astronomical Union</i> , <b>2012</b> , 10, 739-739	0.1	1
8	Evolutionary paths among different red galaxy types at $0.3 < z < 1.5$ and the build-up of massive E-S0s. <i>Proceedings of the International Astronomical Union</i> , <b>2012</b> , 8, 176-176	0.1	1
7	Optimizing Results from Automatic Objective-Prism Surveys. <i>Astrophysics and Space Science</i> , <b>1998</b> , 263, 95-98	1.6	1
6	The Evolution of Passive Galaxies since $z=1$ : Major Mergers vs Secular Processes. <i>Proceedings of the International Astronomical Union</i> , <b>2009</b> , 5, 209-212	0.1	
5	NIR Properties of the UCM Star-Forming Galaxies. <i>Astrophysics and Space Science</i> , <b>1998</b> , 263, 147-150	1.6	
4	MrK86: A Not-So-Dark Galaxy. <i>Astrophysics and Space Science</i> , <b>1998</b> , 263, 151-154	1.6	
3	The H $\alpha$ FR of the Universe at $z = 0.24$ and $z = 0.4$ . <i>Astrophysics and Space Science</i> , <b>2001</b> , 277, 583-583	1.6	
2	GUAIX: The UCM Group of Extragalactic Astrophysics and Astronomical Instrumentation. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , <b>2009</b> , 169-170	0.3	
1	Reconciling a Significant Hierarchical Assembly of Massive Early-Type Galaxies at $z > 1$ with Mass Downsizing. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , <b>2011</b> , 211-213	0.3	

