

# Marco Xompero

## List of Publications by Year in descending order

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63  
papers

1,196  
citations

567281

15  
h-index

414414

32  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1058  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical calibration and performance of the adaptive secondary mirror at the Magellan telescope. Scientific Reports, 2018, 8, 10835.	3.3	7
2	ELT-HIRES, the high resolution spectrograph for the ELT: results from the Phase A study. , 2018, , .		10
3	Numerical simulations of MAORY MCAO module for the ELT. , 2018, , .		3
4	The ERIS adaptive optics system: from design to hardware. , 2018, , .		2
5	A possible concept for the day-time calibration and co-phasing of the adaptive M4 mirror at the E-ELT telescope. , 2018, , .		1
6	Fitting error analysis and performance evaluation of M4 deformable mirror. , 2018, , .		0
7	ELT high resolution spectrograph: phase-A software architecture study. , 2018, , .		1
8	ELT -HIRES, the high resolution spectrograph for the ELT; the end-to-end simulator: design approach and results.. , 2018, , .		1
9	ELT-HIRES the High Resolution Spectrograph for the ELT: the IFU-SCAO module. , 2018, , .		1
10	Control electronics of the ERIS AO and CU subsystems. , 2018, , .		1
11	ELT-HIRES the high resolution spectrograph for the ELT: implementing exoplanet atmosphere reflection detection with a SCAO module. , 2018, , .		1
12	Status of MagAO and review of astronomical science with visible light adaptive optics. , 2018, , .		3
13	The crystal ball, the spider and other stories: a journey around the test tower of the M4 adaptive mirror. , 2018, , .		0
14	Optical calibration of the E-ELT adaptive mirror M4: testing protocol and assessment of the measurement accuracy. , 2017, , .		2
15	Status of the MAORY numerical simulation tool. , 2017, , .		1
16	MAGELLAN AO SYSTEM $\gamma$ S, AND $L$ OBSERVATIONS OF THE VERY WIDE 650 AU HD 106906 PLANETARY SYSTEM*. Astrophysical Journal, 2016, 823, 24.	4.5	35
17	The LATT way towards large active primaries for space telescopes. , 2016, , .		3
18	MagAO: status and science. Proceedings of SPIE, 2016, , .	0.8	12

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19	8s, a numerical simulator of the challenging optical calibration of the E-ELT adaptive mirror M4. , 2016, , .		2
20	The path to visible extreme adaptive optics with MagAO-2K and MagAO-X. , 2016, , .		9
21	NEW EXTINCTION AND MASS ESTIMATES OF THE LOW-MASS COMPANION 1RXS 1609 B WITH THE MAGELLAN AO SYSTEM: EVIDENCE OF AN INCLINED DUST DISK. <i>Astrophysical Journal Letters</i> , 2015, 807, L13.	8.3	22
22	MAGELLAN ADAPTIVE OPTICS FIRST-LIGHT OBSERVATIONS OF THE EXOPLANET $\beta$ PIC b. II. $3\sigma$ $5\frac{1}{4}$ m DIRECT IMAGING WITH MagAO+Clio, AND THE EMPIRICAL BOLOMETRIC LUMINOSITY OF A SELF-LUMINOUS GIANT PLANET. <i>Astrophysical Journal</i> , 2015, 815, 108.	4.5	104
23	ON THE MORPHOLOGY AND CHEMICAL COMPOSITION OF THE HR 4796A DEBRIS DISK. <i>Astrophysical Journal</i> , 2015, 798, 96.	4.5	45
24	NEW EXTINCTION AND MASS ESTIMATES FROM OPTICAL PHOTOMETRY OF THE VERY LOW MASS BROWN DWARF COMPANION CT CHAMAELEONTIS B WITH THE MAGELLAN AO SYSTEM. <i>Astrophysical Journal</i> , 2015, 801, 4.	4.5	23
25	NEW SPATIALLY RESOLVED OBSERVATIONS OF THE T Cha TRANSITION DISK AND CONSTRAINTS ON THE PREVIOUSLY CLAIMED SUBSTELLAR COMPANION. <i>Astrophysical Journal</i> , 2015, 801, 85.	4.5	21
26	Analysis of the static deformation matching between numerical and experimental data on the voice-coil actuated deformable mirrors. , 2014, , .		0
27	The deformable secondary mirror of VLT: final electro-mechanical and optical acceptance test results. <i>Proceedings of SPIE</i> , 2014, , .	0.8	11
28	On the use of asymmetric PSF on NIR images of crowded stellar fields. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
29	The ERIS adaptive optics system. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
30	Direct imaging of exoplanets in the habitable zone with adaptive optics. <i>Proceedings of SPIE</i> , 2014, , .	0.8	9
31	Approaches to the interferometric test of large flat mirrors: the case of the adaptive M4 for E-ELT. , 2014, , .		2
32	MagAO: Status and on-sky performance of the Magellan adaptive optics system. <i>Proceedings of SPIE</i> , 2014, , .	0.8	30
33	Into the blue: AO science with MagAO in the visible. <i>Proceedings of SPIE</i> , 2014, , .	0.8	10
34	MAGELLAN ADAPTIVE OPTICS FIRST-LIGHT OBSERVATIONS OF THE EXOPLANET $\beta$ PIC b. I. DIRECT IMAGING IN THE FAR-RED OPTICAL WITH MagAO+VisAO AND IN THE NEAR-IR WITH NICI <sup>&lt;sup&gt;&lt;/sup&gt;. <i>Astrophysical Journal</i>, 2014, 786, 32.</sup>	4.5	88
35	DIRECTLY IMAGED L-T TRANSITION EXOPLANETS IN THE MID-INFRARED <sup>&lt;sup&gt;&lt;/sup&gt;. <i>Astrophysical Journal</i>, 2014, 792, 17.</sup>	4.5	112
36	HD 106906 b: A PLANETARY-MASS COMPANION OUTSIDE A MASSIVE DEBRIS DISK. <i>Astrophysical Journal Letters</i> , 2014, 780, L4.	8.3	143

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37	ERIS: preliminary design phase overview. Proceedings of SPIE, 2014, , .	0.8	6
38	THE FIRST CIRCUMSTELLAR DISK IMAGED IN SILHOUETTE AT VISIBLE WAVELENGTHS WITH ADAPTIVE OPTICS: MagAO IMAGING OF ORION 218-354. Astrophysical Journal Letters, 2013, 775, L13.	8.3	13
39	High Contrast Imaging of an Exoplanet with the Magellan VisAO Camera. Proceedings of the International Astronomical Union, 2013, 8, 46-47.	0.0	1
40	Visible Light Adaptive Optics Imaging of the Orion 218-354 Silhouette Disk. Proceedings of the International Astronomical Union, 2013, 8, 159-160.	0.0	0
41	Direct imaging of Beta Pictoris b with first-light Magellan Adaptive Optics. Proceedings of the International Astronomical Union, 2013, 8, 252-256.	0.0	1
42	Laboratory characterization of the ARGOS laser wavefront sensor. , 2012, , .		1
43	Operation of the adaptive optics system at the Large Binocular Telescope Observatory. Proceedings of SPIE, 2012, , .	0.8	1
44	Optical calibration of capacitive sensors for AO: strategy and preliminary results. , 2012, , .		2
45	The Giant Magellan Telescope adaptive optics program. Proceedings of SPIE, 2012, , .	0.8	6
46	LBT adaptive secondary mirrors: chopping procedures and optical calibration on the test bench. Proceedings of SPIE, 2012, , .	0.8	0
47	First closed-loop visible AO test results for the advanced adaptive secondary AO system for the Magellan Telescope: MagAO's performance and status. Proceedings of SPIE, 2012, , .	0.8	40
48	Laboratory demonstration of real time frame selection with Magellan AO. Proceedings of SPIE, 2012, , .	0.8	4
49	Numerical modeling and simulation studies for the M4 adaptive mirror of the E-ELT. , 2012, , .		1
50	THE GRAY NEEDLE: LARGE GRAINS IN THE HD 15115 DEBRIS DISK FROM LBT/PISCES AND LBTI /LMIRcam ADAPTIVE OPTICS IMAGING. Astrophysical Journal, 2012, 752, 57.	4.5	45
51	FIRST LIGHT LBT AO IMAGES OF HR 8799 bcde AT 1.6 AND 3.3 $\hat{1}$ / <sub>4</sub> m: NEW DISCREPANCIES BETWEEN YOUNG PLANETS AND OLD BROWN DWARFS. Astrophysical Journal, 2012, 753, 14.	4.5	152
52	Estimation of the GMT inter-segment piston error from deformable mirror commands. Proceedings of SPIE, 2011, , .	0.8	0
53	Multiframe blind deconvolution for imaging in daylight and strong turbulence conditions. Proceedings of SPIE, 2011, , .	0.8	3
54	Numerical control matrix rotation for the LINC-NIRVANA multiconjugate adaptive optics system. Proceedings of SPIE, 2010, , .	0.8	4

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55	First light AO (FLAO) system for LBT: final integration, acceptance test in Europe, and preliminary on-sky commissioning results. Proceedings of SPIE, 2010, , .	0.8	88
56	The adaptive secondary mirror for the Large Binocular Telescope: optical acceptance test and preliminary on-sky commissioning results. Proceedings of SPIE, 2010, , .	0.8	32
57	Laboratory characterization and performance of the high-order adaptive optics system for the Large Binocular Telescope. Applied Optics, 2010, 49, G174.	2.1	54
58	The LBT-AdOpt arbitrator: coordinating many loosely coupled processes. , 2008, , .		0
59	Layer-Oriented on paper, laboratory, and soon on the sky. , 2004, , .		3
60	The adaptive secondary mirrors for the Large Binocular Telescope: a progress report. , 2004, , .		16
61	Assembly, integration, and test of the layer-oriented wavefront sensor for MAD. , 2004, , .		1
62	LINC-NIRVANA: mechanical challenges of the MCAO wavefront sensor. , 2004, , .		3
63	An active wavefront sensor to make feasible adaptive optics on 100-m class telescopes. , 2004, , .		1