

Domenico Bonaccini Calia

List of Publications by Year in descending order

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96
papers

1,576
citations

567281

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h-index

377865

34
g-index

96
all docs

96
docs citations

96
times ranked

1377
citing authors

#	ARTICLE	IF	CITATIONS
1	The first light of the Solar Activity MOF Monitor Telescope (SAMM). Journal of Space Weather and Space Climate, 2021, 11, 22.	3.3	2
2	ELT-scale elongated LGS wavefront sensing: on-sky results. Astronomy and Astrophysics, 2021, 649, A158.	5.1	2
3	Measuring line-of-sight sodium density structure using laser guide stars. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2798-2808.	4.4	2
4	Frequency chirped continuous-wave sodium laser guide stars: modeling and optimization. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1208.	2.1	8
5	Polarization-driven spin precession of mesospheric sodium atoms: publisher's note. Optics Letters, 2019, 44, 138.	3.3	1
6	Raman-scattered laser guide-star photons to monitor the scatter of astronomical telescope mirrors. Astronomy and Astrophysics, 2018, 618, L7.	5.1	3
7	Remote sensing of geomagnetic fields and atomic collisions in the mesosphere. Nature Communications, 2018, 9, 3981.	12.8	32
8	Polarization-driven spin precession of mesospheric sodium atoms. Optics Letters, 2018, 43, 5825.	3.3	10
9	Simulations of continuous-wave sodium laser guide stars with polarization modulation at Larmor frequency. , 2018, , .		0
10	Closed loop operation with extremely elongated LGS spots in CANARY Phase D. , 2018, , .		0
11	Line of sight mesospheric sodium profiles obtained from the LGS signal for optimal ELT LGS-AO. , 2018, , .		0
12	Error breakdown of ELT-elongated LGS wavefront-sensing using CANARY on-sky measurements. , 2018, , .		0
13	Laser guide stars for optical free-space communications. Proceedings of SPIE, 2017, , .	0.8	7
14	Detection and Implications of Laser-Induced Raman Scattering at Astronomical Observatories. Physical Review X, 2017, 7, .	8.9	6
15	Comparison between observation and simulation of sodium LGS return flux with a 20W CW laser on Tenerife. Proceedings of SPIE, 2016, , .	0.8	5
16	Getting ready for the first on sky experiment using an ELT-scaled elongated sodium laser guide star. Proceedings of SPIE, 2016, , .	0.8	0
17	The bistatic geometry for Na profiling with LGS at Teide Observatory. , 2016, , .		0
18	Laser pointing camera: a valuable tool for the LGS-AO operations. Proceedings of SPIE, 2016, , .	0.8	2

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19	Assembly and test results of the AOF laser guide star units at ESO. , 2014, , .		1
20	Laser guide star pointing camera for ESO LGS Facilities. , 2014, , .		4
21	ESO adaptive optics facility progress and first laboratory test results. , 2014, , .		3
22	Proposal for a field experiment of elongated Na LGS wave-front sensing in the perspective of the E-ELT. , 2014, , .		0
23	The Four-Laser Guide Star Facility: Design considerations and system implementation. Advanced Optical Technologies, 2014, 3, 345-361.	1.7	23
24	Simulations of pulsed sodium laser guide stars: an overview. , 2012, , .		11
25	Toward an on-sky ELT-scale sodium LGS wavefront sensing experiment. , 2012, , .		1
26	ESO adaptive optics facility progress report. Proceedings of SPIE, 2012, , .	0.8	9
27	The ESO transportable LGS Unit for measurements of the LGS photon return and other experiments. , 2012, , .		16
28	Magnetometry with mesospheric sodium. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3522-3525.	7.1	37
29	Optimization of cw sodium laser guide star efficiency. Astronomy and Astrophysics, 2010, 510, A20.	5.1	79
30	Statistics of the sodium layer parameters at low geographic latitude and its impact on adaptive-optics sodium laser guide star characteristics. Astronomy and Astrophysics, 2010, 511, A31.	5.1	21
31	Manufacturing of the ESO adaptive optics facility. Proceedings of SPIE, 2010, , .	0.8	11
32	PM fiber lasers at 589nm: a 20W transportable laser system for LGS return flux studies. Proceedings of SPIE, 2010, , .	0.8	5
33	Laser guide star return flux simulations based on observed sodium density profiles. , 2010, , .		9
34	Diode-seeded fiber-based sodium laser guide stars ready for deployment. , 2010, , .		5
35	50W CW visible laser source at 589nm obtained via frequency doubling of three coherently combined narrow-band Raman fibre amplifiers. Optics Express, 2010, 18, 8540.	3.4	147
36	Dependence of sodium laser guide star photon return on the geomagnetic field. Astronomy and Astrophysics, 2009, 501, 793-799.	5.1	21

#	ARTICLE	IF	CITATIONS
37	More than 15 W CW, 10 MHz linewidth laser at 589 nm using Raman fiber amplifier. , 2009, , .		0
38	High power narrowband 589nm frequency doubled fibre laser source. Optics Express, 2009, 17, 14687.	3.4	49
39	25 W Raman-fiber-amplifier-based 589 nm laser for laser guide star. Optics Express, 2009, 17, 19021.	3.4	122
40	150 W highly-efficient Raman fiber laser. Optics Express, 2009, 17, 23678.	3.4	189
41	39 W narrow linewidth Raman fiber amplifier with frequency doubling to 26.5 W at 589 nm. , 2009, , .		10
42	Multiwatts narrow linewidth fiber Raman amplifiers. Optics Express, 2008, 16, 10927.	3.4	62
43	AO with LGS and mesospheric layer sensing. Proceedings of SPIE, 2008, , .	0.8	0
44	Effect of the geomagnetic field on the intensity of sodium laser guide stars. , 2008, , .		2
45	Physical optics modeling and optimization of laser guide star propagation. Proceedings of SPIE, 2008, , .	0.8	15
46	Multi-watt 589-nm Na D 2 -line generation via frequency doubling of a Raman fiber amplifier: a source for LGS-assisted AO. , 2006, 6272, 1366.		6
47	The Rayleigh technical demonstrator: a novel concepts platform. , 2006, 6272, 1356.		0
48	Ultra-low loss hollow-core photonic crystal fibers at 589 nm for LGS-assisted AO. , 2006, 6272, 1384.		1
49	Design of a narrow band 589 nm laser by direct Raman shift in single mode fiber. , 2006, 6272, 1375.		2
50	Spada: An Array of Spad Detectors For Astrophysical Applications. Experimental Astronomy, 2006, 19, 163-168.	3.7	2
51	AFIRE: fiber Raman laser for laser guide star adaptive optics. , 2006, , .		9
52	SPADA: An Array of SPAD Detectors for Astrophysical Applications. , 2006, , 455-460.		0
53	Laser-guide-star-related activities at ESO. , 2004, , .		7
54	Cone-effect-free adaptive optics laser guide star development for the ELTs. , 2004, , .		4

#	ARTICLE	IF	CITATIONS
55	Photometry and astrometry with anisoplanatic AO images. , 2004, , .		0
56	Pushing technologies: single-photon avalanche diode arrays. , 2004, , .		13
57	VLT laser guide star facility. , 2003, , .		10
58	Observations of faint galaxies with adaptive optics. , 2003, 4834, 302.		1
59	Operational Issues for PARSEC, the VLT Laser. , 2003, , .		1
60	High-power 938-nm cladding pumped fiber laser. , 2003, 4974, 75.		12
61	Fiber Raman laser development for multiple sodium laser guide star adaptive optics. , 2003, , .		5
62	<title>ESO VLT laser guide star facility</title>. , 2002, , .		20
63	<title>Fiber Raman laser development for multiconjugate adaptive optics with sodium laser guide stars</title>. , 2002, 4494, 271.		2
64	<title>Modular concept for ELT adaptive optics</title>. , 2002, 4494, 41.		1
65	<title>StarFinder: an IDL GUI-based code to analyze crowded fields with isoplanatic correcting PSF fitting</title>. , 2000, , .		78
66	<title>Single-mode fiber relay for the ESO laser guide star facility</title>. , 2000, 4007, 258.		3
67	<title>Hypervelocity jets and homuncular motion in eta Carinae: an application of Fabry-Perot, ADONIS, and AO software</title>. , 2000, , .		0
68	<title>ESO photometric and astrometric analysis program for AO: a programmatic and numerical analysis</title>. , 2000, 4007, 866.		1
69	<title>MACAO and its application for the VLT interferometer</title>. , 2000, , .		7
70	Analysis of isoplanatic high resolution stellar fields by the StarFinder code. Astronomy and Astrophysics, 2000, 147, 335-346.	2.1	315
71	A method to analyze adaptive optics images of binary stars. Astronomy and Astrophysics, 1999, 135, 187-195.	2.1	0
72	Adaptive Optics Imaging at 1â€“5 Microns on Large Telescopes: The COMIC Camera for ADONIS. Publications of the Astronomical Society of the Pacific, 1998, 110, 1087-1097.	3.1	9

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73	Adaptive optics for ESO VLT interferometer. , 1998, , .		14
74	<title>AVES: an adaptive optics visual echelle spectrograph for the VLT</title>. , 1998, 3355, 105.		2
75	Modeling observed errors in adaptive optics systems. , 1998, 3353, 1049.		1
76	Does the outer scale help adaptive optics or is Kolmogorov gentler. , 1998, , .		3
77	Deconvolution of ADONIS images. , 1998, , .		3
78	Laser guide star facility for the ESO VLT. , 1998, , .		2
79	Fiber Raman laser for sodium guide star. , 1998, 3353, 330.		2
80	Curvature adaptive optics at ESO. , 1998, 3353, 553.		1
81	SINFONI: a near-infrared AO-assisted integral field spectrometer for the VLT. , 1998, , .		14
82	Deconvolution of adaptive optics near-infrared system (ADONIS) images. , 1997, 3126, 68.		2
83	STRAP for the VLT instruments. , 1997, , .		4
84	Performance of the ESO AO system, ADONIS, at the La Silla 3.6-m telescope. , 1997, 3126, 589.		2
85	Adaptive Optics on a 3.6-Meter Telescope. The ADONIS System.. Experimental Astronomy, 1997, 7, 285-292.	3.7	18
86	ARNICA, the Arcetri Near-Infrared Camera. Publications of the Astronomical Society of the Pacific, 1996, 108, 364.	3.1	16
87	Rayleigh Beacon Adaptive Optics Imaging of ADS 9731: Measurements of the Isoplanatic Field of View. Astrophysical Journal, 1995, 450, 369.	4.5	16
88	<title>Novel avalanche photodiode for adaptive optics</title>. , 1994, 2201, 650.		3
89	<title>Optical design for interferometry with the Large Binocular Telescope</title>. , 1994, , .		2
90	<title>Adaptive optics with liquid crystal phase screens</title>. , 1994, 2201, 1155.		0

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91	Adaptive optics wavefront corrector using addressable liquid-crystal retarders II. , 1992, , .		6
92	<title>Adaptive optics wavefront corrector using addressable liquid crystal retarders</title>. , 1990, 1334, 89.		5
93	<title>Fabry-Perot tunable filter for the visible and near IR using nematic liquid crystals</title>. , 1990, 1334, 221.		2
94	Two-dimensional high-resolution spectroscopy of quiet regions on the sun. Astrophysics and Space Science, 1990, 170, 117-119.	1.4	1
95	Lithium niobate double channel Fabry-Perot interferometer for solar corona uses. Applied Optics, 1988, 27, 5095.	2.1	15
96	SINFONI - Galaxy Dynamics at $0^{\prime\prime}.05$ Resolution with the VLT. , 0, , 107-110.		1