

Stefano Minardi

List of Publications by Year in descending order

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68
papers

1,136
citations

331670

21
h-index

395702

33
g-index

69
all docs

69
docs citations

69
times ranked

808
citing authors

#	ARTICLE	IF	CITATIONS
1	Far-field spectral characterization of conical emission and filamentation in Kerr media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 862.	2.1	92
2	Time-resolved refractive index and absorption mapping of light-plasma filaments in water. <i>Optics Letters</i> , 2008, 33, 86.	3.3	89
3	High precision astrometry mission for the detection and characterization of nearby habitable planetary systems with the Nearby Earth Astrometric Telescope (NEAT). <i>Experimental Astronomy</i> , 2012, 34, 385-413.	3.7	73
4	Observation of Quadratic Optical Vortex Solitons. <i>Physical Review Letters</i> , 2000, 84, 3843-3846.	7.8	61
5	Observation of Optical Vortices and Bessel-Like Beams in Quantum-Noise Parametric Amplification. <i>Physical Review Letters</i> , 1998, 81, 5133-5136.	7.8	53
6	Control of the shape of the spatial mode function of photons generated in noncollinear spontaneous parametric down-conversion. <i>Physical Review A</i> , 2005, 72, .	2.5	51
7	Quantitative two-dimensional shadowgraphic method for high-sensitivity density measurement of under-critical laser plasmas. <i>Optics Letters</i> , 2007, 32, 1238.	3.3	47
8	Light bullets in waveguide arrays: spacetime-coupling, spectral symmetry breaking and superluminal decay [Invited]. <i>Optics Express</i> , 2011, 19, 23171.	3.4	45
9	Accurate retrieval of pulse-splitting dynamics of a femtosecond filament in water by time-resolved shadowgraphy. <i>Optics Letters</i> , 2009, 34, 3020.	3.3	42
10	Interferometric beam combination with discrete optics. <i>Optics Letters</i> , 2010, 35, 3009.	3.3	39
11	Evolution dynamics of discrete-continuous light bullets. <i>Physical Review A</i> , 2011, 84, .	2.5	39
12	Three dimensional imaging of short pulses. <i>Optics Communications</i> , 2004, 229, 381-390.	2.1	37
13	Observation of Discrete, Vortex Light Bullets. <i>Physical Review X</i> , 2013, 3, .	8.9	34
14	Soliton algebra by vortex-beam splitting. <i>Optics Letters</i> , 2001, 26, 1004.	3.3	29
15	Towards 3D-photonics, multi-telescope beam combiners for mid-infrared astrointerferometry. <i>Optics Express</i> , 2017, 25, 19262.	3.4	29
16	3D-integrated optics component for astronomical spectro-interferometry. <i>Applied Optics</i> , 2013, 52, 4556.	1.8	28
17	Pixellike parametric generator based on controlled spatial-soliton formation. <i>Optics Letters</i> , 2000, 25, 326.	3.3	27
18	Reconstruction of blurred images by controlled formation of spatial solitons. <i>Optics Letters</i> , 2001, 26, 1409.	3.3	27

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19	Three-dimensional photonic component for multichannel coherence measurements. Optics Letters, 2012, 37, 3030.	3.3	27
20	Energy deposition dynamics of femtosecond pulses in water. Applied Physics Letters, 2014, 105, .	3.3	26
21	Higher-order Kerr effect and harmonic cascading in gases. Optics Letters, 2012, 37, 4612.	3.3	24
22	Solitonic all-optical switch based on the fractional Talbot effect. Optics Letters, 2002, 27, 2097.	3.3	18
23	Imaging cross-correlation FROG: measuring ultrashort, complex, spatiotemporal fields. Optics Express, 2013, 21, 25968.	3.4	18
24	Red Solitons: Evidence of Spatiotemporal Instability in $\chi^{(2)}$ Spatial Soliton Dynamics. Physical Review Letters, 2003, 91, 123901.	7.8	17
25	Ultrafast laser inscription in ZBLAN integrated optics chips for mid-IR beam combination in astronomical interferometry. Optics Express, 2017, 25, 20642.	3.4	17
26	Nonlocality of coupling and the retrieval of field correlations with arrays of waveguides. Physical Review A, 2015, 92, .	2.5	15
27	Effects of stress on neighboring laser written waveguides in gallium lanthanum sulfide. Applied Physics Letters, 2018, 112, 111908.	3.3	13
28	Interferometric nulling of four channels with integrated optics. Applied Optics, 2015, 54, 7449.	2.1	12
29	Astronomical photonics in the context of infrared interferometry and high-resolution spectroscopy. Proceedings of SPIE, 2016, , .	0.8	10
30	A compact multi-pixel parametric light source. Optics Communications, 2003, 224, 301-307.	2.1	9
31	Digital holography from shadowgraphic phase estimates. Optics Letters, 2012, 37, 509.	3.3	9
32	Plasma absorption evidence via chirped pulse spectral transmission measurements. Applied Physics Letters, 2015, 106, 231101.	3.3	9
33	Beam combination schemes and technologies for the Planet Formation Imager. , 2016, , .		7
34	Status of the Planet Formation Imager (PFI) concept. Proceedings of SPIE, 2016, , .	0.8	7
35	Modal analysis using photonic lanterns coupled to arrays of waveguides. Optics Letters, 2019, 44, 1718.	3.3	7
36	Phase front retrieval by means of an iterative shadowgraphic method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 99.	1.5	6

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37	All-in-one 4-telescope beam combination with a zig-zag array of waveguides. , 2016, , .		5
38	A six-apertures discrete beam combiners for J-band interferometry. , 2018, , .		5
39	Progress towards instrument miniaturisation for mid-IR long-baseline interferometry. Experimental Astronomy, 2018, 46, 433-445.	3.7	4
40	Discrete beam combiners: exploring the potential of 3D photonics for interferometry. Proceedings of SPIE, 2012, , .	0.8	3
41	Temporal switching induced by cascaded third order nonlinearity. Optics Letters, 2012, 37, 5109.	3.3	3
42	6- and 8-telescope discrete beam combiners. , 2016, , .		3
43	NAIR: novel astronomical instrumentation through photonic reformatting. , 2018, , .		3
44	Defining requirements and identifying relevant technologies in astrophotonics. Proceedings of SPIE, 2010, , .	0.8	2
45	Discrete optical multi-aperture combiner: instrumental concept. Proceedings of SPIE, 2012, , .	0.8	2
46	Increasing the spectral coverage of interferometric integrated optics: K/L and N-laser-written beam combiners. Proceedings of SPIE, 2016, , .	0.8	2
47	Photonics-based mid-infrared interferometry: 4-year results of the ALSI project and future prospects. , 2018, , .		2
48	Three-dimensional photonic combiner for optical astro interferometry. Proceedings of SPIE, 2010, , .	0.8	1
49	MAMMUT: mirror vibration metrology for VLTI. , 2010, , .		1
50	3D-integrated beam combiner for optical spectro-interferometry. , 2014, , .		1
51	Photonics-based mid-infrared interferometry: the challenges of polychromatic operation and comparative performances. , 2018, , .		1
52	A solitonic all-optical switch based on the fractional Talbot effect. , 2002, , .		1
53	Discrete beam combiners from astronomy to lasers. , 2019, , .		1
54	Iterative improvement of shadowgraphic phase maps. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
55	Digital holography from shadowgraphic phase estimates. , 2010, , .		0
56	Nonlinear Spectral Symmetry Breaking of Light Bullets in Waveguide Arrays. , 2012, , .		0
57	Discrete light bullet vortices. , 2013, , .		0
58	Higher-order Kerr effect and harmonic cascading in gases. , 2013, , .		0
59	Vortex Light Bullets in fibre arrays — Properties, decay and experimental schemes. , 2013, , .		0
60	Integrated optics interferometric four telescopes nuller. Proceedings of SPIE, 2014, , .	0.8	0
61	Imaging Ultrafast Light-Matter Interaction with Inverse Raman Scattering. , 2014, , .		0
62	Four-channel interferometry with a zig-zag array of mid-infrared integrated waveguides. Proceedings of SPIE, 2017, , .	0.8	0
63	Structural modification of gallium lanthanum sulfide glass induced by ultrafast laser inscription. , 2017, , .		0
64	Digital In-line Holography with the Iterative Shadowgraphic Method. , 2010, , .		0
65	Superluminally Decaying Light Bullets in Periodic Media. , 2011, , .		0
66	Imaging cross-correlation FROG: retrieval of ultrashort, complex, spatiotemporal fields. , 2013, , .		0
67	Beam combination schemes and technologies for the Planet Formation Imager. , 2018, , .		0
68	Hi-5: a potential high-contrast thermal near-infrared imager for the VLTI. , 2018, , .		0