

# Francesco Lazzarotto

## List of Publications by Year in descending order

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139  
papers

4,149  
citations

117619

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114455

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139  
docs citations

139  
times ranked

3664  
citing authors

#	ARTICLE	IF	CITATIONS
1	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. <i>Space Science Reviews</i> , 2021, 217, 11.	8.1	26
2	An X-ray burst from a magnetar enlightening the mechanism of fast radio bursts. <i>Nature Astronomy</i> , 2021, 5, 401-407.	10.1	104
3	AGILE Observations of Two Repeating Fast Radio Bursts with Low Intrinsic Dispersion Measures. <i>Astrophysical Journal Letters</i> , 2020, 890, L32.	8.3	20
4	Gamma-Ray and X-Ray Observations of the Periodic-repeater FRB 180916 during Active Phases. <i>Astrophysical Journal Letters</i> , 2020, 893, L42.	8.3	25
5	AGILE and Konus-Wind Observations of GRB 190114C: The Remarkable Prompt and Early Afterglow Phases. <i>Astrophysical Journal</i> , 2020, 904, 133.	4.5	10
6	Mercury sodium exospheric emission as a proxy for solar perturbations transit. <i>Scientific Reports</i> , 2018, 8, 928.	3.3	30
7	Properties of terrestrial gamma ray flashes detected by AGILE MCAL below 30 MeV. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1337-1355.	2.4	66
8	Energetic neutral particles detection in the environment of Jupiter's icy moons: Ganymede and Europa's neutral imaging experiment (GENIE). <i>Planetary and Space Science</i> , 2013, 88, 53-63.	1.7	6
9	INTERPLANETARY NETWORK LOCALIZATIONS OF KONUS SHORT GAMMA-RAY BURSTS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 207, 38.	7.7	23
10	An updated list of AGILE bright $\gamma$ -ray sources and their variability in pointing mode. <i>Astronomy and Astrophysics</i> , 2013, 558, A137.	5.1	13
11	Calibration of AGILE-GRID with in-flight data and Monte Carlo simulations. <i>Astronomy and Astrophysics</i> , 2013, 558, A37.	5.1	14
12	A PROPOSED ITALIAN CONTRIBUTION FOR THE MIRAX SCIENTIFIC PAYLOAD. <i>International Journal of Modern Physics Conference Series</i> , 2012, 12, 110-119.	0.7	1
13	Calibration of AGILE-GRID with in-flight data and Monte Carlo simulations. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
14	AGILE detection of Cygnus X-3 $\gamma$ -ray active states during the period mid-2009/mid-2010. <i>Astronomy and Astrophysics</i> , 2012, 538, A63.	5.1	29
15	The characterization of the distant blazar GB6 J1239+0443 from flaring and low activity periods. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 2015-2026.	4.4	10
16	The Large Observatory for X-ray Timing (LOFT). <i>Experimental Astronomy</i> , 2012, 34, 415-444.	3.7	168
17	On-ground calibration of AGILE-GRID with a photon beam: results and lessons for the future. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
18	Upper limits on the high-energy emission from gamma-ray bursts observed by AGILE-GRID. <i>Astronomy and Astrophysics</i> , 2012, 547, A95.	5.1	10

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19	The gas pixel detector as a solar X-ray polarimeter and imager. <i>Advances in Space Research</i> , 2012, 49, 143-149.	2.6	7
20	Characterization of a tagged $\gamma$ beam line at the DA-NE Beam Test Facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 630, 155-158.	1.6	8
21	High spatial resolution correlation of AGILE TCFs and global lightning activity above the equatorial belt. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	32
22	Discovery of Powerful Gamma-Ray Flares from the Crab Nebula. <i>Science</i> , 2011, 331, 736-739.	12.6	290
23	THE CRAB NEBULA SUPER-FLARE IN 2011 APRIL: EXTREMELY FAST PARTICLE ACCELERATION AND GAMMA-RAY EMISSION. <i>Astrophysical Journal Letters</i> , 2011, 741, L5.	8.3	53
24	Study of the $\gamma$ -ray source 1AGL J2022+4032 in the Cygnus region. <i>Astronomy and Astrophysics</i> , 2011, 525, A33.	5.1	14
25	The AGILE observations of the hard and bright GRB 100724B. <i>Astronomy and Astrophysics</i> , 2011, 535, A120.	5.1	18
26	NEUTRAL PION EMISSION FROM ACCELERATED PROTONS IN THE SUPERNOVA REMNANT W44. <i>Astrophysical Journal Letters</i> , 2011, 742, L30.	8.3	182
27	SPECTRAL EVOLUTION OF THE 2010 SEPTEMBER GAMMA-RAY FLARE FROM THE CRAB NEBULA. <i>Astrophysical Journal Letters</i> , 2011, 732, L22.	8.3	15
28	THE REMARKABLE $\gamma$ -RAY ACTIVITY IN THE GRAVITATIONALLY LENSED BLAZAR PKS 1830-211. <i>Astrophysical Journal Letters</i> , 2011, 736, L30.	8.3	23
29	THE BRIGHTEST GAMMA-RAY FLARING BLAZAR IN THE SKY: AGILE AND MULTI-WAVELENGTH OBSERVATIONS OF 3C 454.3 DURING 2010 NOVEMBER. <i>Astrophysical Journal Letters</i> , 2011, 736, L38.	8.3	75
30	AGILE detection of extreme $\gamma$ -ray activity from the blazar PKS 1510-089 during March 2009. <i>Astronomy and Astrophysics</i> , 2011, 529, A145.	5.1	62
31	The observation of GRBs with AGILE and the interesting cases of GRB 090618 and GRB 100724B. , 2011, , .		0
32	Terrestrial Gamma-Ray Flashes as Powerful Particle Accelerators. <i>Physical Review Letters</i> , 2011, 106, 018501.	7.8	156
33	The observation of gamma ray bursts and terrestrial gamma-ray flashes with AGILE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 630, 155-158.	1.6	2
34	First results about on-ground calibration of the silicon tracker for the AGILE satellite. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 630, 251-257.	1.6	13
35	Room-temperature spectroscopic performance of a very-large area silicon drift detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 633, 15-21.	1.6	35
36	Imaging performance of a large-area Silicon Drift Detector for X-ray astronomy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 633, 22-30.	1.6	37

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37	Galactic sources science with AGILE: The case of the Carina Region. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 630, 193-197.	1.6	1
38	The flaring blazars of the first 1.5 years of the AGILE mission. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 630, 198-201.	1.6	0
39	Preliminary results on TeV sources search with AGILE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 630, 202-205.	1.6	2
40	Characterization of an ASIC front-end electronics dedicated to the Silicon Drift Detectors. , 2011, , .		0
41	Concept for an innovative wide-field camera for x-ray astronomy. Proceedings of SPIE, 2010, , .	0.8	1
42	LOFT: a large observatory for x-ray timing. Proceedings of SPIE, 2010, , .	0.8	9
43	X-ray imaging and spectroscopy performance of a large area silicon drift chamber for wide-field x-ray astronomy applications. Proceedings of SPIE, 2010, , .	0.8	1
44	Rolling and tumbling: status of the SuperAGILE experiment. Proceedings of SPIE, 2010, , .	0.8	0
45	MULTIWAVELENGTH OBSERVATIONS OF 3C 454.3. III. EIGHTEEN MONTHS OF AGILE MONITORING OF THE "CRAZY DIAMOND". Astrophysical Journal, 2010, 712, 405-420.	4.5	88
46	<i>AGILE</i> OBSERVATIONS OF THE "SOFT" GAMMA-RAY PULSAR PSR B1509 - 58. Astrophysical Journal, 2010, 723, 707-712.	4.5	19
47	THE 2009 DECEMBER GAMMA-RAY FLARE OF 3C 454.3: THE MULTIFREQUENCY CAMPAIGN. Astrophysical Journal Letters, 2010, 716, L170-L175.	8.3	52
48	<i>AGILE</i> DETECTION OF DELAYED GAMMA-RAY EMISSION FROM THE SHORT GAMMA-RAY BURST GRB 090510. Astrophysical Journal Letters, 2010, 708, L84-L88.	8.3	70
49	A set of x-ray polarimeters for the New Hard X-ray Imaging and Polarimetric Mission. Proceedings of SPIE, 2010, , .	0.8	15
50	EPISODIC TRANSIENT GAMMA-RAY EMISSION FROM THE MICROQUASAR CYGNUS X-1. Astrophysical Journal Letters, 2010, 712, L10-L15.	8.3	62
51	THE EXTRAORDINARY GAMMA-RAY FLARE OF THE BLAZAR 3C 454.3. Astrophysical Journal, 2010, 718, 455-459.	4.5	40
52	TEMPORAL PROPERTIES OF GX 301A <sup>2</sup> OVER A YEAR-LONG OBSERVATION WITH SuperAGILE. Astrophysical Journal, 2010, 708, 1663-1673.	4.5	13
53	POLARIX: a pathfinder mission of X-ray polarimetry. Experimental Astronomy, 2010, 28, 137-183.	3.7	23
54	Spectral and polarimetric characterization of the Gas Pixel Detector filled with dimethyl ether. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 285-293.	1.6	29

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55	The GPD as a polarimeter: theory and facts. , 2010, , 54-59.		2
56	Feasibility of X-ray photoelectric polarimeters with large field of view. , 2010, , 72-78.		2
57	Angular resolution of a photoelectric polarimeter. , 2010, , 79-82.		2
58	Programs of X-ray polarimetry in Italy. , 2010, , 260-268.		1
59	A polarimeter for <i>IXO</i> . , 2010, , 269-274.		8
60	A year-long AGILE observation of Cygnus X-1 in hard spectral state. <i>Astronomy and Astrophysics</i> , 2010, 520, A67.	5.1	5
61	AGILE detection of GeV $\pi^3$ -ray emission from the SNR W28. <i>Astronomy and Astrophysics</i> , 2010, 516, L11.	5.1	76
62	Monitoring the hard X-ray sky with SuperAGILE. <i>Astronomy and Astrophysics</i> , 2010, 510, A9.	5.1	11
63	Detection of Gamma-Ray Emission from the Vela Pulsar Wind Nebula with AGILE. <i>Science</i> , 2010, 327, 663-665.	12.6	33
64	Gamma-Ray Localization of Terrestrial Gamma-Ray Flashes. <i>Physical Review Letters</i> , 2010, 105, 128501.	7.8	36
65	DIRECT EVIDENCE FOR HADRONIC COSMIC-RAY ACCELERATION IN THE SUPERNOVA REMNANT IC 443. <i>Astrophysical Journal Letters</i> , 2010, 710, L151-L155.	8.3	106
66	A concept for a lightweight, low-power and sensitive Silicon-based All Sky Monitor for transient sources and Gamma Ray Bursts. , 2010, , .		0
67	Detection of terrestrial gamma ray flashes up to 40 MeV by the AGILE satellite. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	179
68	AGILE detection of intense $\pi^3$ -ray activity from the blazar PKS 0537-441 in October 2008. <i>Astronomy and Astrophysics</i> , 2010, 522, A109.	5.1	7
69	MULTIWAVELENGTH OBSERVATIONS OF 3C 454.3. II. THE AGILE 2007 DECEMBER CAMPAIGN. <i>Astrophysical Journal</i> , 2009, 707, 1115-1123.	4.5	42
70	DISCOVERY OF NEW GAMMA-RAY PULSARS WITH AGILE. <i>Astrophysical Journal</i> , 2009, 695, L115-L119.	4.5	49
71	DETECTION OF GAMMA-RAY EMISSION FROM THE ETA-CARINAE REGION. <i>Astrophysical Journal</i> , 2009, 698, L142-L146.	4.5	86
72	X-ray polarimetry in astrophysics with the Gas Pixel Detector. <i>Journal of Instrumentation</i> , 2009, 4, P11002-P11002.	1.2	2

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73	MULTIWAVELENGTH OBSERVATIONS OF 3C 454.3. I. THE AGILE 2007 NOVEMBER CAMPAIGN ON THE CRAZY DIAMOND. <i>Astrophysical Journal</i> , 2009, 690, 1018-1030.	4.5	66
74	First AGILE catalog of high-confidence gamma-ray sources. <i>Astronomy and Astrophysics</i> , 2009, 506, 1563-1574.	5.1	91
75	AGILE observation of a gamma-ray flare from the blazar 3C 279. <i>Astronomy and Astrophysics</i> , 2009, 494, 509-513.	5.1	17
76	HIGH-RESOLUTION TIMING OBSERVATIONS OF SPIN-POWERED PULSARS WITH THE AGILE GAMMA-RAY TELESCOPE. <i>Astrophysical Journal</i> , 2009, 691, 1618-1633.	4.5	43
77	MULTIWAVELENGTH OBSERVATIONS OF A TeV-FLARE FROM W COMAE. <i>Astrophysical Journal</i> , 2009, 707, 612-620.	4.5	71
78	The AGILE Mission. <i>Astronomy and Astrophysics</i> , 2009, 502, 995-1013.	5.1	288
79	THE JUNE 2008 FLARE OF MARKARIAN 421 FROM OPTICAL TO TeV ENERGIES. <i>Astrophysical Journal</i> , 2009, 691, L13-L19.	4.5	86
80	AGILE View of TGFs. , 2009, , .		7
81	The status of the AGILE GRB observations and the noticeable case of GRB 080514B. , 2009, , .		0
82	Search for Very Short Bursts with the AGILE Mini-Calorimeter. , 2009, , .		1
83	A Light and Effective Wide Field Monitor for Gamma Ray Bursts and Transient Sources. , 2009, , .		1
84	Extreme particle acceleration in the microquasar Cygnus X-3. <i>Nature</i> , 2009, 462, 620-623.	27.8	160
85	AGILE detection of a rapid $\gamma$ -ray flare from the blazar PKS 1510-089 during the GASP-WEBT monitoring. <i>Astronomy and Astrophysics</i> , 2009, 508, 181-189.	5.1	41
86	High energy variability of 3C 273 during the AGILE multiwavelength campaign of December 2007-January 2008. <i>Astronomy and Astrophysics</i> , 2009, 494, 49-61.	5.1	17
87	Observation of Gamma Ray Variability of 3C 273 with AGILE during the MWL campaign of Dec 2007. , 2009, , .		0
88	The Study of PWNe with a photoelectric polarimeter. , 2009, , .		0
89	Threshold equalization algorithm for the XAA1.2 ASICs and its application to SuperAGILE X-ray imager. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 593, 367-375.	1.6	5
90	Search of GRB with AGILE Minicalorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 588, 17-21.	1.6	27

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91	The AGILE space mission. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 588, 52-62.	1.6	93
92	In orbit performance and observations of the silicon strip experiment SuperAGILE. , 2008, , .		0
93	The AGILE Data Handling In-Flight Performance. , 2008, , .		8
94	AGILE and the Gamma-Ray Bursts. AIP Conference Proceedings, 2008, , .	0.4	1
95	SuperAGILE Services at ASDC. AIP Conference Proceedings, 2008, , .	0.4	0
96	GRB 070724B: the first Gamma Ray Burst localized by SuperAGILE. AIP Conference Proceedings, 2008, , .	0.4	0
97	XPOL: a photoelectric polarimeter onboard XEUS. Proceedings of SPIE, 2008, , .	0.8	8
98	One year of in-orbit operation of the AGILE Payload. , 2008, , .		1
99	X-ray polarimetry on-board of HXMT. Proceedings of SPIE, 2008, , .	0.8	7
100	Calibrating and optimizing the imaging of the SuperAGILE experiment. , 2008, , .		0
101	Architecture and performances of the AGILE Telemetry Preprocessing System (TMPPS). Proceedings of SPIE, 2008, , .	0.8	12
102	SuperAGILE: one year after launch. Proceedings of SPIE, 2008, , .	0.8	0
103	AGILE Detection of a Strong Gamma-Ray Flare from the Blazar 3C 454.3. Astrophysical Journal, 2008, 676, L13-L16.	4.5	69
104	AGILE detection of intense gamma-ray emission from the blazar PKS 1510-089. Astronomy and Astrophysics, 2008, 491, L21-L24.	5.1	22
105	AGILE detection of delayed gamma-ray emission from GRB 080514B. Astronomy and Astrophysics, 2008, 491, L25-L28.	5.1	53
106	AGILE detection of variable $\gamma$ -ray activity from the blazar S5 0716+714 in September–October 2007. Astronomy and Astrophysics, 2008, 489, L37-L40.	5.1	33
107	Gamma-ray burst detection with the AGILE mini-calorimeter. Astronomy and Astrophysics, 2008, 490, 1151-1156.	5.1	24
108	GRB 070724B: the first gamma ray burst localized by SuperAGILE and its Swift X-ray afterglow. Astronomy and Astrophysics, 2008, 478, L5-L9.	5.1	12

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109	Long-term AGILE monitoring of the puzzling gamma-ray source 3EG J1835+5918. <i>Astronomy and Astrophysics</i> , 2008, 489, L17-L20.	5.1	5
110	Gamma-ray Astrophysics with AGILE. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
111	The AGILE Mission and Gamma-Ray Bursts. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	1
112	SuperAGILE ground calibrations and first in orbit observations. , 2007, , .		0
113	Scientific performances of the XAA1.2 front-end chip for silicon microstrip detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 572, 708-721.	1.6	11
114	SuperAGILE onboard electronics and ground test instrumentation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 574, 330-341.	1.6	4
115	An X-ray imager based on silicon microstrip detector and coded mask. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 576, 191-193.	1.6	9
116	SuperAGILE: The hard X-ray imager for the AGILE space mission. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 581, 728-754.	1.6	125
117	GAMMA-RAY ASTROPHYSICS WITH AGILE. , 2007, , .		0
118	ASPEX: a pret-a-porter all sky monitor. , 2006, 6266, 925.		0
119	AGILE 2006. , 2006, , .		0
120	An x-ray polarimeter for hard x-ray optics. , 2006, , .		4
121	The on-ground calibrations of SuperAGILE: I. X-ray pencil beam. , 2006, , .		5
122	SuperAGILE at launch. , 2006, 6266, 887.		4
123	The on-ground calibrations of SuperAGILE: II. Finite distance radioactive sources. , 2006, 6266, 944.		7
124	The AGILE mission and its scientific instrument. , 2006, 6266, 12.		16
125	AGILE and Gamma-Ray Bursts. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
126	SuperAGILE and Gamma Ray Bursts. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0



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127	GAMMA-RAY ASTROPHYSICS WITH AGILE. , 2006, , 303-308.		0
128	SuperAGILE: The Hard X-ray Imager of AGILE. AIP Conference Proceedings, 2004, , .	0.4	3
129	The engineering model of the SuperAGILE experiment. , 2004, , .		2
130	Instrumentation for ground test of SuperAgile detectors and front-end electronics. , 2004, , .		1
131	Data model applications for the SuperAGILE detection system. , 2004, , .		0
132	AGILE and gamma-ray astrophysics. Nuclear Physics, Section B, Proceedings Supplements, 2003, 125, 222-229.	0.4	3
133	The AGILE instrument. , 2003, 4851, 1151.		18
134	The science of AGILE: part I. Nuclear Physics, Section B, Proceedings Supplements, 2002, 113, 231-238.	0.4	9
135	The science of AGILE: part II. Nuclear Physics, Section B, Proceedings Supplements, 2002, 113, 239-246.	0.4	4
136	Pancreatic Autoantibodies in Italian Patients with Newly Diagnosed Type 1 Diabetes Mellitus under the Age of 20 Years. Annals of the New York Academy of Sciences, 2002, 958, 271-275.	3.8	4
137	A robust filter for the BeppoSAX Gamma-Ray Burst Monitor triggers. AIP Conference Proceedings, 2000, , .	0.4	0
138	SuperAGILE an X-ray monitor on-board the AGILE mission: the engineering model. , 0, , .		0
139	SADAS: an integrated software system for the data of the SuperAGILE experiment. , 0, , .		0