

Giulio Stancari

List of Publications by Year in descending order

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83
papers

1,135
citations

516710

16
h-index

434195

31
g-index

90
all docs

90
docs citations

90
times ranked

971
citing authors

#	ARTICLE	IF	CITATIONS
1	Single electron in a storage ring: a probe into the fundamental properties of synchrotron radiation and a powerful diagnostic tool. Journal of Instrumentation, 2022, 17, P02014.	1.2	1
2	Nonlinear dynamics of proton beams with hollow electron lens in the CERN high-luminosity LHC. European Physical Journal Plus, 2022, 137, 1.	2.6	1
3	Resonant and random excitations on the proton beam in the Large Hadron Collider for active halo control with pulsed hollow electron lenses. Physical Review Accelerators and Beams, 2021, 24, .	1.6	6
4	Design of high-performance guns for the HL-LHC HEL. Journal of Instrumentation, 2021, 16, T03010.	1.2	3
5	Design of a compact, cryogen-free superconducting solenoid for the electron lens of the Fermilab Integrable Optics Test Accelerator (IOTA). Journal of Instrumentation, 2021, 16, T03009.	1.2	3
6	Hollow electron lenses for beam collimation at the High-Luminosity Large Hadron Collider (HL-LHC). Journal of Instrumentation, 2021, 16, P03042.	1.2	8
7	Calculations of detuning with amplitude for the McMillan electron lens in the Fermilab Integrable Optics Test Accelerator (IOTA). Journal of Instrumentation, 2021, 16, P03041.	1.2	2
8	Progress in space charge compensation using electron columns. Journal of Instrumentation, 2021, 16, P03048.	1.2	1
9	Transverse Beam Emittance Measurement by Undulator Radiation Power Noise. Physical Review Letters, 2021, 126, 134802.	7.8	11
10	Measurements of undulator radiation power noise and comparison with ab-initio calculations. Physical Review Accelerators and Beams, 2021, 24, .	1.6	8
11	Beam physics research with the IOTA electron lens. Journal of Instrumentation, 2021, 16, P05002.	1.2	3
12	Experimental 3-dimensional tracking of the dynamics of a single electron in the Fermilab Integrable Optics Test Accelerator (IOTA). Journal of Instrumentation, 2021, 16, P12009.	1.2	4
13	Halo removal experiments with hollow electron lens in the BNL Relativistic Heavy Ion Collider. Physical Review Accelerators and Beams, 2020, 23, .	1.6	10
14	Probing LHC halo dynamics using collimator loss rates at 6.5 TeV. Physical Review Accelerators and Beams, 2020, 23, .	1.6	6
15	Statistical properties of spontaneous synchrotron radiation with arbitrary degree of coherence. Physical Review Accelerators and Beams, 2020, 23, .	1.6	11
16	The development programme of cathodes and electron guns for the Hollow Electron Lenses of the High Luminosity LHC project.1. Journal of Physics: Conference Series, 2019, 1350, 012086.	0.4	0
17	Control of the diocotron instability of a hollow electron beam with periodic dipole magnets. Physics of Plasmas, 2018, 25, .	1.9	11
18	Preliminary Mechanical Design Study of the Hollow Electron Lens for HL-LHC. Journal of Physics: Conference Series, 2017, 874, 012102.	0.4	2

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19	IOTA (Integrable Optics Test Accelerator): facility and experimental beam physics program. Journal of Instrumentation, 2017, 12, T03002-T03002.	1.2	66
20	Longitudinal bunch shaping of picosecond high-charge MeV electron beams. Physics of Plasmas, 2016, 23, .	1.9	7
21	Applications of electron lenses: Scraping of high-power beams, beam-beam compensation, and nonlinear optics. AIP Conference Proceedings, 2016, , .	0.4	3
22	Experimental access to Transition Distribution Amplitudes with the Pi^0 ANDA experiment at FAIR. European Physical Journal A, 2015, 51, 1.	2.5	29
23	Emittance Growth and Beam Loss. Particle Acceleration and Detection, 2014, , 187-258.	0.5	2
24	Technical design report for the Pi^0 ANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker. European Physical Journal A, 2013, 49, 1.	2.5	71
25	Beam diffusion measurements using collimator scans in the LHC. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	16
26	Two-dimensional simulation and modal analysis of hollow electron beams for controlled halo collimation. , 2013, , .		0
27	Bunch-by-bunch measurement of transverse coherent beam-beam modes in the Fermilab Tevatron collider. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	2
28	Ambient betatron motion and its excitation by "ghost lines" in Tevatron. Journal of Instrumentation, 2011, 6, P08002-P08002.	1.2	4
29	Tevatron beam halo collimation system: design, operational experience and new methods. Journal of Instrumentation, 2011, 6, T08005-T08005.	1.2	26
30	Collimation with Hollow Electron Beams. Physical Review Letters, 2011, 107, 084802.	7.8	68
31	Hollow Electron Beam Collimator: R&D Status Report. , 2010, , .		2
32	Positron program at the Idaho Accelerator Center. , 2009, , .		0
33	Polarizing a stored proton beam by spin flip?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 269-275.	4.1	27
34	Experimental study of vapor-cell magneto-optical traps for efficient trapping of radioactive atoms. European Physical Journal D, 2009, 53, 89-96.	1.3	11
35	Accurate measurements of transition frequencies and isotope shifts of laser-trapped francium. Optics Letters, 2009, 34, 893.	3.3	16
36	A beam transport line for magneto-optical trapping experiments with radioactive francium. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 594, 321-325.	1.6	7

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37	Measurement of diffusion coefficients of francium and rubidium in yttrium based on laser spectroscopy. Physical Review A, 2008, 78, .	2.5	5
38	A francium MOT for atomic parity violation measurements. Proceedings of SPIE, 2008, , .	0.8	4
39	A low beta section for polarization studies of antiprotons by spin filtering. , 2007, , .		0
40	A new complementary-scan technique for precise measurements of resonance parameters in antiproton-proton annihilations. , 2007, , .		0
41	Precision measurements of the total and partial widths of the χ_{c0} state. Physical Review Letters, 2007, 99, 012001.	1.3	5
42	Francium sources and traps for fundamental interaction studies. European Physical Journal: Special Topics, 2007, 150, 389-392.	2.6	28
43	Prospects for parity violation measurements in cold francium atoms. , 2007, , 185-187.		0
44	Characterization of The Legnaro Fr MOT. , 2007, , .		0
45	Production of radioactive beams of francium. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 557, 390-396.	1.6	15
46	Francium sources at Laboratori Nazionali di Legnaro: Design and performance. Review of Scientific Instruments, 2006, 77, 03A701.	1.3	5
47	Measurement of the angular distribution in χ_{c0} production. Physical Review Letters, 2007, 99, 012001.	4.1	14
48	E835 at FNAL: Charmonium Spectroscopy in Annihilations. Nuclear Physics, Section B, Proceedings Supplements, 2005, 142, 98-103.	0.4	4
49	Excitation functions for χ_{c0} produced in the $O^{18}+Au^{197}$ fusion reaction. Physical Review C, 2005, 71, .	2.9	39
50	Measurement of the branching ratios $\Gamma(\chi_{c0} \rightarrow e^+e^-)$, $\Gamma(\chi_{c0} \rightarrow J/\psi \gamma)$, and $\Gamma(\chi_{c0} \rightarrow \eta \gamma)$. Physical Review D, 2005, 71, .	4.7	3
51	Study of χ_{c0} two neutral pseudoscalar mesons at the χ_{c0} formation energy. Physical Review D, 2005, 72, .	4.7	3
52	Results of a search for the χ_{c0} state of charmonium in the χ_{c0} decay modes. Physical Review D, 2005, 72, .	4.7	64
53	Measurement of the resonance parameters of the $(13P1)$ and $(13P2)$ states of charmonium formed in antiproton-proton annihilations. Nuclear Physics B, 2005, 717, 34-47.	2.5	15
54	E835 at FNAL: Charmonium Spectroscopy in $p\bar{p}$ Annihilations. AIP Conference Proceedings, 2004, , .	0.4	6

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55	Experiment E835 at Fermilab. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 519, 558-609.	1.6	25
56	Production and trapping of francium atoms. Nuclear Physics A, 2004, 746, 421-424.	1.5	12
57	Measurement of the two photon decay of the $\chi_{c0}(13P0)$ state of charmonium. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 584, 16-21.	4.1	7
58	The Legnaro Francium Magneto-Optical Trap. Hyperfine Interactions, 2003, 146/147, 83-89.	0.5	10
59	Beam decelerations with variable momentum compaction in the Fermilab Antiproton Accumulator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 506, 205-216.	1.6	18
60	Measurements of the magnetic form factor of the proton for timelike momentum transfers. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 559, 20-25.	4.1	65
61	Measurement of the resonance parameters of the charmonium ground state, $\chi_{c0}(11S0)$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 566, 45-50.	4.1	15
62	Cooling and trapping of radioactive atoms: the Legnaro francium magneto-optical trap. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 953.	2.1	12
63	Interference Study of the $\chi_{c0}(13P0)$ in the Reaction $p\bar{p} \rightarrow \chi_{c0} \pi^0$. Physical Review Letters, 2003, 91, 091801.	7.8	12
64	Laser cooling and trapping of radioactive atoms. , 2003, 5226, 11.		0
65	Trapping of Radioactive Atoms: the Legnaro Francium Magneto-Optical Trap. Physica Scripta, 2003, T105, 15.	2.5	7
66	Study of the angular distributions of the reactions $p\bar{p} \rightarrow \chi_{c1} \pi^0$ and $p\bar{p} \rightarrow \chi_{c1} \pi^+ \pi^-$. Physical Review D, 2002, 65, 042001.	4.7	37
67	New measurements of the resonance parameters of the $\chi_{c0}(13P0)$ state of charmonium. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 533, 237-242.	4.1	29
68	E835 at FNAL: Charmonium spectroscopy in annihilations. Nuclear Physics A, 2001, 692, 308-314.	1.5	2
69	The new scintillating fiber detector of E835 at Fermilab. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 219-221.	1.6	1
70	The new scintillating fiber detector of E835 at Fermilab. IEEE Transactions on Nuclear Science, 2001, 48, 1122-1126.	2.0	2
71	Search for the $\chi_{c2}(21S0)$ charmonium resonance. Physical Review D, 2001, 64, .	4.7	15
72	The charged trigger of the experiment E835 at Fermilab. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 331-343.	1.6	3

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73	Study of the χ^3 decays of the $\chi_c(13P2)$ and $\chi_c(13P0)$ charmonium resonances. Physical Review D, 2000, 62, .	4.7	28
74	Measurement of the branching ratios $\Gamma(\chi_c \rightarrow e^+e^-) / \Gamma(\chi_c \rightarrow \mu^+\mu^-)$ and $\Gamma(\chi_c \rightarrow \mu^+\mu^-) / \Gamma(\chi_c \rightarrow \tau^+\tau^-)$. Physical Review D, 2000, 62, .	4.7	10
75	Study of the $\chi_c(1P03)$ State of Charmonium Formed in $p\bar{p}$ Annihilations. Physical Review Letters, 1999, 83, 2902-2905.	7.8	16
76	The Fermilab E835 scintillating fiber detector. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 479-483.	0.4	2
77	High precision charmonium spectroscopy in annihilations. Nuclear Physics A, 1999, 655, c29-c34.	1.5	3
78	Measurements of the magnetic form factor of the proton in the timelike region at large momentum transfer. Physical Review D, 1999, 60, .	4.7	93
79	Results from the E835 scintillating fiber detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 419, 632-636.	1.6	9
80	The E835 scintillating fiber tracking detector. Nuclear Physics, Section B, Proceedings Supplements, 1998, 61, 384-389.	0.4	3
81	Performance measurements of high-VLPC photon detectors for E835 at FNAL. , 1998, , .		3
82	Results from the E835 cylindrical scintillating-fiber tracker. , 1998, , .		1
83	Construction and performance of a cylindrical scintillating fiber detector for experiment 835 at FNAL. IEEE Transactions on Nuclear Science, 1997, 44, 460-463.	2.0	14