Luca Doria

List of Publications by Year in descending order

47 papers	1,363 citations	516710 16 h-index	330143 37 g-index
47 all docs	47 docs citations	47 times ranked	2987 citing authors

#	Article	IF	Citations
1	High-Precision Determination of the Electric and Magnetic Form Factors of the Proton. Physical Review Letters, 2010, 105, 242001.	7.8	363
2	Electric and magnetic form factors of the proton. Physical Review C, 2014, 90, .	2.9	224
3	Search for dark matter with a 231-day exposure of liquid argon using DEAP-3600 at SNOLAB. Physical Review D, 2019, 100, .	4.7	94
4	Improved search for heavy neutrinos in the decay <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Ï€</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:mi>e</mml:mi><mml:mi>Î½</mml:mi></mml:mrow></mml:math>. Physical Review D, 2018, 97, .	4.7	59
5	Improved Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Ï€</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:mi mathvariant="normal">e</mml:mi><mml:mi>Î½</mml:mi></mml:mrow></mml:math>Branching Ratio. Physical Review Letters, 2015, 115, 071801.	7.8	56
6	Lowest- Q2 measurement of the Î³p â†’ Î” reaction: Probing the pionic contribution. European Physical Journal A, 2006, 30, 471-476.	2.5	52
7	Search for massive neutrinos in the decay<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi><mml:mo>â†’</mml:mo><mml:mi>e</mml:mi><mml:mi>Î½</mml:mi></mml:math>. Physical Review D, 2011, 84, .	4.7	46
8	Search for heavy neutrinos in Ï€â€¯â†’â€¯Î¼Î½ decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134980.	4.1	40
9	Determination of quadrupole strengths in the <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd"	4.1	39
10	Measurements of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"... Physics display="inline"><mml:mrow><mml:msup><mml:mi>Î³</mml:mi><mml:mrow><mml:mo>*</mml:mo></mml:mrow></mml:msup><mml at low<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>Q</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup></mm Probing the mesonic contribution. Physical Review C, 2008, 78, .	2.9	35
11	BernaueretÂal.Reply:. Physical Review Letters, 2011, 107, .	7.8	29
12	Characterization of the Hamamatsu VUV4 MPPCs for nEXO. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 940, 371-379.	1.6	28
13	Measurement of the Neutron Electric to Magnetic Form Factor Ratio at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Q</mml:mi><mml:mn>2</mml:mn></mml:msup><mml:mo mathvariant="bold">=</mml:mo><mml:mn>1.58</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi the Reaction<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mover accent="true">... Physical Review Letters, 2013, 111,	7.8	26
14	High purity pion beam at TRIUMF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 609, 102-105.	1.6	24
15	A new measurement of the structure functions PLL - PTT/Îµ and PLT in virtual Compton scattering at Q2 = 0.33 (GeV/c)2. European Physical Journal A, 2008, 37, 1-8.	2.5	22
16	Constraints on dark matter-nucleon effective couplings in the presence of kinematically distinct halo substructures using the DEAP-3600 detector. Physical Review D, 2020, 102, .	4.7	21
17	Recoil Polarization and Beam-Recoil Double Polarization Measurement ofÎ·Electroproduction on the Proton in the Region of theS11(1535)Resonance. Physical Review Letters, 2007, 99, 132301.	7.8	15
18	Beam-helicity asymmetry in photon and pion electroproduction in the Î”(1232)-resonance region at Q2 = 0.35(GeV/c)2. European Physical Journal A, 2007, 32, 69-75.	2.5	15

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19	Study of a large NaI(Tl) crystal. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 621, 188-191.	1.6	15
20	Measurements of the Î³*p â†' Î" reaction at low Q2. European Physical Journal A, 2013, 49, 1.	2.5	15
21	Virtual Compton scattering measurements in theÎ³*Nâ†'Î"transition. Physical Review C, 2008, 78, .	2.9	14
22	In-beam tests of scintillating fibre detectors at MAMI and at GSI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 593, 353-360.	1.6	12
23	Detector for measuring the Ï€+â†'e+Î½e branching fraction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 791, 38-46.	1.6	12
24	A method for characterizing after-pulsing and dark noise of PMTs and SiPMs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 875, 87-91.	1.6	11
25	Search for three body pion decays Ï€+â†'l+Î½X. Physical Review D, 2021, 103, .	4.7	10
26	Operation and characterization of a windowless gas jet target in high-intensity electron beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1013, 165668.	1.6	10
27	Improved search for two body muon decay Î¼+â†'e+XH. Physical Review D, 2020, 101, .	4.7	9
28	Reflectivity and PDE of VUV4 Hamamatsu SiPMs in liquid xenon. Journal of Instrumentation, 2020, 15, P01019-P01019.	1.2	9
29	Monte Carlo simulation of virtual Compton scattering below pion threshold. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 566, 675-686.	1.6	8
30	Measurement of the beam-recoil polarization in low-energy virtual Compton scattering from the proton. Physical Review C, 2015, 92, .	2.9	8
31	Reflectance of Silicon Photomultipliers at Vacuum Ultraviolet Wavelengths. IEEE Transactions on Nuclear Science, 2020, 67, 2501-2510.	2.0	8
32	Measurement of propagation time dispersion in a scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 253-260.	1.6	7
33	The PIENU experiment at TRIUMF : a sensitive probe for new physics. Journal of Physics: Conference Series, 2011, 312, 102010.	0.4	5
34	Beam-normal single spin asymmetry in elastic electron scattering off 28Si and 90Zr. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135664.	4.1	5
35	Search for massive neutrinos in Ï€ + â†' e + Î½ e ${pi }^{+}{ightarrow }e^{+}{u }_{e}$ decay. Hyperfine Interactions, 2017, 238, 1.	0.5	3
36	Search for the rare decays <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï€</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:mo stretchy="false">â†'</mml:mo><mml:msup><mml:mi>Î¼</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msub><mml:mi>Î½</mml:m accent="true"><mml:mi>Î½</mml:mi><mml:mo stretchy="false">Â¯</mml:mo></mml:mover></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml. Physical Review D, 2020, 102, .	4.7	3

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37	The MAGIX focal plane time projection chamber. Journal of Physics: Conference Series, 2020, 1498, 012022.	0.4	3
38	Measurement of the pion branching ratio at TRIUMF. , 2012, , .		2
39	Silicon Detector Telescope for proton detection in electron scattering reactions at MAMI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 673, 82-88.	1.6	2
40	PIENU experiment at TRIUMF: A sensitive probe of new physics. AIP Conference Proceedings, 2013, , .	0.4	2
41	PIENU experiment at TRIUMF: Measurement of Ï€â†'eÎ½âˆ•Ï€â†'Î¼Î½ branching ratio. , 2009, , .		1
42	Status of the PIENU experiment at TRIUMF. Journal of Physics: Conference Series, 2015, 631, 012044.	0.4	1
43	The Generalized Polarizabilities of the Nucleon: Status Report. Journal of Physics: Conference Series, 2011, 312, 032007.	0.4	0
44	Massive neutrino search in the decay Ï€[sup +]â†'e[sup +]Î½. , 2012, , .		0
45	Search for new Physics with theÏ€â€‰â†'â€‰evDecay. EPJ Web of Conferences, 2014, 66, 05004.	0.3	0
46	Status of the PIENU experiment. Journal of Physics: Conference Series, 2014, 556, 012002.	0.4	0
47	Initial results from the PIENU experiment. Hyperfine Interactions, 2017, 238, 1.	0.5	0