

# Manuel D Rolo

## List of Publications by Year in descending order

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Version: 2024-02-01

147  
papers

2,364  
citations

257450

24  
h-index

265206

42  
g-index

148  
all docs

148  
docs citations

148  
times ranked

1909  
citing authors



#	ARTICLE	IF	CITATIONS
19	Monte Carlo simulation tool for online treatment monitoring in hadrontherapy with in-beam PET: A patient study. Physica Medica, 2018, 51, 71-80.	0.7	27
20	TOFPET 2: A high-performance circuit for PET time-of-flight. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 194-195.	1.6	26
21	EndoTOFPET-US: a novel multimodal tool for endoscopy and positron emission tomography. Journal of Instrumentation, 2013, 8, C04002-C04002.	1.2	25
22	Measurements of absolute branching fractions for $\hat{\tau}$	4.1	25
23	Observation of $\hat{\tau}$		

#	ARTICLE	IF	CITATIONS
37	Measurement of the Absolute Branching Fraction of the Inclusive Decay $\Lambda_c^+ \rightarrow \Lambda^0 \pi^+$ . Physical Review Letters, 2018, 121, 062003.	7.8	19
38	Design and construction of a new detector to measure ultra-low radioactive-isotope contamination of argon. Journal of Instrumentation, 2020, 15, P02024-P02024.	1.2	19
39	Measurements of the center-of-mass energies of $e^+e^-$ collisions at BESIII *. Chinese Physics C, 2021, 45, 103001.	3.7	19
40	Measurement of $e^+e^- \rightarrow e^+\pi^0\pi^+\pi^0$ , cross sections at the $\rho(3770)$ resonance. Chinese Physics C, 2018, 42, 083001.	3.7	18
41	First Observation of $\Lambda_c^+ \rightarrow \Lambda^0 \pi^+ \pi^0$ and Measurement of Its Decay Dyn. Physical Review Letters, 2020, 124, 231801.	7.8	18
42	SiPM-matrix readout of two-phase argon detectors using electroluminescence in the visible and near infrared range. European Physical Journal C, 2021, 81, 1.	3.9	18
43	Recent progress of RD53 Collaboration towards next generation Pixel Read-Out Chip for HL-LHC. Journal of Instrumentation, 2016, 11, C12058-C12058.	1.2	17
44	Measurements of Absolute Branching Fractions of Fourteen Exclusive Hadronic $\Lambda_c^+$ Decays to $\Lambda^0 \pi^+ \pi^0$ . Physical Review Letters, 2020, 124, 241803.	7.8	17
45	Study of Open-Charm Decays and Radiative Transitions of the $\Lambda_c^+$ (3872). Physical Review Letters, 2020, 124, 242001.	7.8	17
46	Development of high-resolution detector module with depth of interaction identification for positron emission tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 684-688.	1.6	16
47	Cryogenic Characterization of FBK RGB-HD SiPMs. Journal of Instrumentation, 2017, 12, P09030-P09030.	1.2	16
48	Detection of Interfractional Morphological Changes in Proton Therapy: A Simulation and In Vivo Study With the INSIDE In-Beam PET. Frontiers in Physics, 2021, 8, .	2.1	16
49	Measurements of the branching fractions for the semileptonic decays $\Lambda_c^+ \rightarrow \Lambda^0 \pi^+ \ell^+ \nu_\ell$ . Physical Review D, 2019, 87, .	7.8	16
50	TIGER: A front-end ASIC for timing and energy measurements with radiation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 181-186.	1.6	15
51	Endo-TOFPET-US: A multimodal ultrasonic probe featuring time of flight PET in diagnostic and therapeutic endoscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 121-125.	1.6	14
52	First results of the INSIDE in-beam PET scanner for the on-line monitoring of particle therapy treatments. Journal of Instrumentation, 2016, 11, C12011-C12011.	1.2	14
53	Measurements of absolute branching fractions for $\Lambda_c^+ \rightarrow \Lambda^0 \pi^+ \pi^0$ mesons decays into two pseudoscalar mesons. Physical Review D, 2018, 97, .	4.7	14
54	A low-power low-noise synchronous pixel front-end chain in 65 nm CMOS technology with local fast ToT encoding and autozeroing for extreme rate and radiation at HL-LHC. , 2015, , .		13





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91	EndoTOFPET-US " A Miniaturised Calorimeter for Endoscopic Time-of-Flight Positron Emission Tomography. Journal of Physics: Conference Series, 2015, 587, 012068.	0.4	4
92	A time-based front-end ASIC for the silicon micro strip sensors of the PANDA Micro Vertex Detector. Journal of Instrumentation, 2016, 11, C03017-C03017.	1.2	4
93	Characterisation of irradiated thin silicon sensors for the CMS phase II pixel upgrade. European Physical Journal C, 2017, 77, 1.	3.9	4
94	Improved measurements of $\langle \sigma_{\text{had}} \rangle$ at $\sqrt{s} = 3.686$ GeV. Physical Review D, 2018, GEM detector performance with innovative micro-TPC readout in high magnetic field. EPJ Web of Conferences, 2018, 170, 01009.	4.7	4
95	Test beam demonstration of silicon microstrip modules with transverse momentum discrimination for the future CMS tracking detector. Journal of Instrumentation, 2018, 13, P03003-P03003.	1.2	4
97	Particle beam microstructure reconstruction and coincidence discrimination in PET monitoring for hadron therapy. Physics in Medicine and Biology, 2019, 64, 035001.	3.0	4
98	The new CGEM Inner Tracker and the new TIGER ASIC for the BES III Experiment. , 2017, , .		4
99	A Fit to the Available $e^+e^- \rightarrow \text{hadrons}$ Cross Section Data Nearby Production Threshold by Means of a Strong Correction to the Coulomb Enhancement Factor. Universe, 2021, 7, 436.	2.5	4
100	EndoTOFPET-US DAQ, designing the Data Acquisition System of a high resolution endoscopic PET-US detector. , 2013, , .		3
101	Design and performance of an ASIC for TOF applications. , 2013, , .		3
102	A prototype of a new generation readout ASIC in 65nm CMOS for pixel detectors at HL-LHC. Journal of Instrumentation, 2016, 11, C12044-C12044.	1.2	3
103	First measurements of a prototype of a new generation pixel readout ASIC in 65 nm CMOS for extreme rate HEP detectors at HL-LHC. 2016.		3
104	Measurement of branching fractions for $B \rightarrow \text{hadrons} \tau^+ \tau^-$ . Physical Review D, 2018, 97, 034004.	4.7	3
105	MATISSE: A Versatile Readout Electronics for Monolithic Active Pixel Sensors Characterization. , 2017, , .		3
106	A new inner tracker based on GEM detectors for the BES III experiment. International Journal of Modern Physics Conference Series, 2018, 48, 1860119.	0.7	3
107	Measurement of the integrated Luminosities of cross-section scan data samples around the $\psi(3770)$ mass region. Chinese Physics C, 2018, 42, 063001.	3.7	3
108	Measurement of singly Cabibbo-suppressed decays $D_0 \rightarrow \tau^+ \tau^- \pi^0$ , $D_0 \rightarrow \tau^+ \tau^- \eta$ and $D_0 \rightarrow \tau^+ \tau^- \eta'$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 368-375.	4.1	3

#	ARTICLE	IF	CITATIONS
109	Search for the rare decay of $\tilde{\chi}(3686)^+\tilde{\chi}^0 \rightarrow c\bar{c} + p\bar{e} + e\bar{e} + \text{c.c.}$ at BESIII. Physical Review D, 2018, 97, .	4.7	3
110	A Prototype of a New Generation Readout ASIC in 65 nm CMOS for Pixel Detectors at HL-LHC. , 2017, , .		3
111	Development of a Large Pixel Chip Demonstrator in RD53 for ATLAS and CMS Upgrades. , 2018, , .		3
112	A compact Detector Module for Time of Flight PET and the associated DAQ system. , 2014, , .		2
113	The readout chain for the $\tilde{\chi}$ ANDA MVD strip detector. Journal of Instrumentation, 2015, 10, C02003-C02003.	1.2	2
114	TIGER, a 64 channel mixed-mode ASIC for the readout of the CGEM detector in the BESIII experiment. , 2016, , .		2
115	Performance of the micro-TPC Reconstruction for GEM Detectors at High Rate. , 2017, , .		2
116	Design implementation and test results of the RD53A, a 65 nm large scale chip for next generation pixel detectors at the HL-LHC. , 2018, , .		2
117	GRAAL: Gem Reconstruction And Analysis Library. Journal of Physics: Conference Series, 2020, 1525, 012116.	0.4	2
118	Design of analog front-ends for the RD53 demonstrator chip. , 2017, , .		2
119	Results from CHIPIX-FEO, a Small-Scale Prototype of a New Generation Pixel Readout ASIC in 65 nm CMOS for HL-LHC. , 2018, , .		2
120	EndoTOFPET-US: Towards a multi-modal endoscope for Ultrasound and Time of Flight PET. , 2013, , .		1
121	Detection sensitivity and light collection studies of an APD-based high packing-fraction LYSO:Ce matrix for PET applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 607-610.	1.6	1
122	Development and test of a $\frac{1}{4}$ TPC cluster reconstruction for a triple GEM detector in strong magnetic field. , 2016, , .		1
123	Asymmetric Data Acquisition System for an Endoscopic PET-US Detector. IEEE Transactions on Nuclear Science, 2016, 63, 213-221.	2.0	1
124	Design and performance of the TIGER front-end ASIC for the BESIII Cylindrical Gas Electron Multiplier detector. , 2017, , .		1
125	600 Mrad TID effects on a new generation high rate Pixel Readout ASIC in 65nm CMOS with low-power, low noise synchronous analog front-end using Fast ToT encoding and auto-zeroing. , 2017, , .		1
126	The New Cylindrical GEM Inner Tracker of BESIII. International Journal of Modern Physics Conference Series, 2018, 46, 1860077.	0.7	1



#	ARTICLE	IF	CITATIONS
127	A mixed-signal large dynamic range front-end ASIC for high capacitance detectors. Journal of Instrumentation, 2019, 14, P08013-P08013.	1.2	1
128	Depleted MAPS on a 110 nm CMOS CIS Technology. , 2019, , .		1
129	Time performance of a triple-GEM detector at high rate. Journal of Instrumentation, 2020, 15, P06013-P06013.	1.2	1
130	A fast and parametric digitization for triple-GEM detectors. Journal of Physics: Conference Series, 2020, 1525, 012113.	0.4	1
131	First results of the front-end ASIC for the strip detector of the PANDA MVD. Journal of Instrumentation, 2017, 12, C03063-C03063.	1.2	1
132	Design and Characterization of the Readout ASIC for the BESIII CGEM Detector. , 2018, , .		1
133	MATISSE: a Low Power Front-End Electronics for MAPS Characterization. , 2018, , .		1
134	A study on the propagation times of loaded CMOS inverters. , 2010, , .		0
135	PET-ToF system with highly integrated SiPM readout. Radiotherapy and Oncology, 2016, 118, S107-S108.	0.6	0
136	TOFFEE: A fully custom amplifier-comparator chip for silicon detectors with internal gain. , 2016, , .		0
137	Abstract ID: 143 Monte Carlo simulation tool for online treatment monitoring in hadrontherapy with in-beam PET. Physica Medica, 2017, 42, 47-48.	0.7	0
138	Observation of $\tilde{\chi}_2^0 \tilde{\chi}_1^0$ and $\tilde{\chi}_0^0 \tilde{\chi}_1^0$ . Physical Review D, 2017, 96, .	4.7	0
139	Design, Implementation, and Verification of a Data Acquisition System for the Prototypes of the Front-End Electronics of the PANDA Micro Vertex Detector. , 2017, , .		0
140	Development of a detector module for Time-of-Flight PET with improved timing performance. , 2017, , .		0
141	A Monte Carlo triple-GEM simulation tuned with data. , 2018, , .		0
142	Optimization of the reconstruction algorithm in triple-GEM detector. , 2018, , .		0
143	Standalone codes for simulation and reconstruction of a triple-GEM: GTS and GRAAL. Journal of Physics: Conference Series, 2020, 1561, 012014.	0.4	0
144	Tracking in 4 dimensions. , 2017, , .		0

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145	The Front-End and Slow Control boards for the Wide Field of View Cherenkov Telescopes of LHAASO.. , 2017, , .		0
146	Laboratory and Beam Test Results of TOFFEE ASIC and Ultra Fast Silicon Detectors. , 2018, , .		0
147	TIGER: a custom readout electronics for the BESIII CGEM detector. , 2019, , .		0