Enrique Sanchis

List of Publications by Year
in descending order

116 papers	2,330 citations	270111 25 h-index	242451 47 g-index
116 all docs	116 docs citations	116 times ranked	4642 citing authors

#	Article	IF	Citations
1	Embedded bleeding detector into a PMMA applicator for electron intraoperative radiotherapy. Physica Medica, 2022, 94, 35-42.	0.4	2
2	Artificial neural networks for neutron/γ discrimination in the neutron detectors of NEDA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 986, 164750.	0.7	15
3	Electronic Design for a Bleeding Detector to be Used in Intraoperative Radiotherapy Applications. IEEE Sensors Journal, 2021, 21, 4786-4792.	2.4	1
4	Evidence for enhanced neutron-proton correlations from the level structure of the $N=Z$ nucleus $^{87}_{43}\text{Tc}_{44}$. Physical Review C, 2021, 104, .	1.1	3
5	Phantom development for daily checks in electron intraoperative radiotherapy with a mobile linac. Physica Medica, 2020, 76, 109-116.	0.4	0
6	Low-lying electric dipole γ-continuum for the unstable 62,64Fe nuclei: Strength evolution with neutron number. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135951.	1.5	6
7	Nuclear Pair Correlations from the Level Structure of the Self-Conjugate Nucleus ^{88}Ru. Physical Review Letters, 2020, 124, 062501.	2.9	24
8	Isospin dependence of electromagnetic transition strengths among an isobaric triplet. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134835.	1.5	10
9	Improving bleeding detector features for electron intraoperative radiotherapy. Physica Medica, 2019, 65, 150-156.	0.4	3
10	NEDA—NEutron Detector Array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 927, 81-86.	0.7	34
11	Detector for monitoring potential bleeding during electron intraoperative radiotherapy. Physica Medica, 2019, 57, 95-99.	0.4	4
12	Neutron detection and γ-ray suppression using artificial neural networks with the liquid scintillators BC-501A and BC-537. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 916, 238-245.	0.7	15
13	Study of isomeric states in ^{198,200,202,206}Pb and ^{206}Hg populated in fragmentation reactions. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 035105.	1.4	5
14	Pseudospin Symmetry and Microscopic Origin of Shape Coexistence in the ^{78}Ni Region: A Hint from Lifetime Measurements. Physical Review Letters, 2018, 121, 192502.	2.9	20
15	Pulse pile-up identification and reconstruction for liquid scintillator based neutron detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 897, 59-65.	0.7	24
16	Lifetime measurement of neutron-rich even-even molybdenum isotopes. Physical Review C, 2017, 95, .	1.1	17
17	Measurement of lifetimes in $^{62,64}\text{Fe}$. Physical...	1.1	9
18	$^{96}_{36}\text{Kr}$ and the Low-Z Boundary of the Island of Deformat. Physical Review Letters, 2017, 118, 162501.	2.9	31

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19	A Matlab based interface for infrared thermographic diagnosis of pediatric musculoskeletal injuries. Infrared Physics and Technology, 2016, 76, 500-503.	1.3	5
20	Conceptual design of the early implementation of the NEutron Detector Array (NEDA) with AGATA. European Physical Journal A, 2016, 52, 1.	1.0	23
21	Role of the Î" Resonance in the Population of a Four-Nucleon State in the Fe56â†'Fe54 Reaction at Relativistic Energies. Physical Review Letters, 2016, 117, 222302.	2.9	6
22	Thermographic imaging tool for children fracture detection. , 2016, , .		0
23	Design of a mezzanine card with bandwidth aggregation for HPGe gamma spectroscopy. , 2016, , .		1
24	Performance of the Fully Digital FPGA-Based Front-End Electronics for the GALILEO Array. IEEE Transactions on Nuclear Science, 2015, 62, 3134-3139.	1.2	13
25	Digital pulse-timing technique for the neutron detector array NEDA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 775, 71-76.	0.7	19
26	Digital Front-End Electronics for the Neutron Detector NEDA. IEEE Transactions on Nuclear Science, 2015, 62, 1063-1069.	1.2	6
27	A New Front-End High-Resolution Sampling Board for the New-Generation Electronics of EXOGAM2 and NEDA Detectors. IEEE Transactions on Nuclear Science, 2015, 62, 1056-1062.	1.2	9
28	Study and simulation of the read-out electronics design for a high-resolution plastic scintillating fiber based hodoscope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 232-235.	0.7	1
29	Conceptual design of the TRACE detector readout using a compact, dead time-less analog memory ASIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 800, 34-39.	0.7	13
30	Infrared thermography is useful for ruling out fractures in paediatric emergencies. European Journal of Pediatrics, 2015, 174, 493-499.	1.3	24
31	A digital front-end electronics for the neutron detector NEDA. , 2014, , .		0
32	Fully digital FPGA-based Front-End Electronics for the GALILEO array. , 2014, , .		0
33	Infrared Thermal Imaging in the Diagnosis of Musculoskeletal Injuries: A Systematic Review and Meta-Analysis. American Journal of Roentgenology, 2014, 203, 875-882.	1.0	38
34	Digital pulse-shape analysis with a TRACE early silicon prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 764, 241-246.	0.7	40
35	Test of digital neutronâ€"gamma discrimination with four different photomultiplier tubes for the NEutron Detector Array (NEDA). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 83-91.	0.7	23
36	A new front-end high-resolution sampling board for the new-generation electronics of EXOGAM2 and NEDA detectors. , 2014, , .		0

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37	Design and Test of a High-Speed Flash ADC Mezzanine Card for High-Resolution and Timing Performance in Nuclear Structure Experiments. IEEE Transactions on Nuclear Science, 2013, 60, 3526-3531.	1.2	8
38	Multiple Register Synchronization With a High-Speed Serial Link Using the Aurora Protocol. IEEE Transactions on Nuclear Science, 2013, 60, 3521-3525.	1.2	7
39	Maximum Likelihood Estimation and Non-Linear Least Squares Fitting Implementation in FPGA Devices for High Resolution Hodoscopy. IEEE Transactions on Nuclear Science, 2013, 60, 3578-3584.	1.2	2
40	Mechanical construction and installation of the ATLAS tile calorimeter. Journal of Instrumentation, 2013, 8, T11001-T11001.	0.5	3
41	The optical instrumentation of the ATLAS Tile Calorimeter. Journal of Instrumentation, 2013, 8, P01005-P01005.	0.5	4
42	The sROD demonstrator for the ATLAS Tile Calorimeter Upgrade. , 2012, , .		1
43	Multiple register synchronization with a high-speed serial link using the Aurora protocol. , 2012, , .		1
44	Graphical user interface for serial protocols through a USB link. , 2012, , .		1
45	Simulation study and validation of the read-out electronics design for a high-resolution Plastic Scintillating Fiber based hodoscope for beam positioning. , 2012, , .		0
46	Design and test of a high-speed flash ADC mezzanine card for high-resolution and timing performance in nuclear structure experiments. , 2012, , .		3
47	Development of the control card for the digitizers of the second generation electronics of AGATA. , 2012, , .		5
48	Maximum Likelihood Estimation and non-linear least squares fitting with Levenberg-Marquardt Algorithm implementation in FPGA devices for high resolution hodoscopy. , 2012, , .		1
49	Design of a power conditioning unit for a Stirling generator in space applications. , 2012, , .		2
50	Data Acquisition in Particle Physics Experiments. , 2012, , .		1
51	AGATAâ€"Advanced GAmma Tracking Array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 668, 26-58.	0.7	378
52	Monte Carlo simulation of a single detector unit for the neutron detector array NEDA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 673, 64-72.	0.7	30
53	Optical Link Card Design for the Phase II Upgrade of TileCal Experiment. IEEE Transactions on Nuclear Science, 2011, 58, 1657-1663.	1.2	5
54	The ATLAS tile calorimeter ROD injector and multiplexer board. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 629, 74-79.	0.7	0

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55	Functional super Read-Out Driver demonstrator for the Phase II Upgrade of the ATLAS Tile Calorimeter. , 2011, , .		2
56	A capacitor selector tool for on-board PDN designs in multigigabit applications. , 2011, , .		2
57	Optimal filtering algorithm implementation in FPGAs for the ATLAS TileCal Read-Out drivers. , 2011, , .		0
58	Evaluation of a Commercial PhotoDiode Array for Radiation Detectors Readout. The Open Optics Journal, 2011, 5, 62-65.	0.1	4
59	Measurement of pion and proton response and longitudinal shower profiles up to 20 nuclear interaction lengths with the ATLAS Tile calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 615, 158-181.	0.7	35
60	Study of energy response and resolution of the ATLAS barrel calorimeter to hadrons of energies from 20 to 350 GeV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 621, 134-150.	0.7	34
61	Evaluation of a commercial APD array (Avalanche PhotoDiode) for a readout detector in a hadrontherapy beam characterization application. , 2010, , .		3
62	Development of an optical link card for the upgrade phase II of TileCal experiment. , 2010, , .		0
63	Testbeam studies of production modules of the ATLAS Tile Calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 362-394.	0.7	91
64	DSP Online Algorithms for The ATLAS TileCal Read-Out Drivers. IEEE Transactions on Nuclear Science, 2008, 55, 158-164.	1.2	2
65	The Optical Multiplexer Board for the ATLAS Hadronic Tile Calorimeter. , 2007, , .		1
66	Installation and commissioning of the TileCal Read-Out Drivers. , 2007, , .		0
67	Algorithms for the ROD DSP of the ATLAS Hadronic Tile Calorimeter. Journal of Instrumentation, 2007, 2, T02001-T02001.	0.5	5
68	ATLAS TileCal Read Out Driver production. Journal of Instrumentation, 2007, 2, P05003-P05003.	0.5	19
69	ATLAS TileCal Read-Out Driver System Production and Initial Performance Results. IEEE Transactions on Nuclear Science, 2007, 54, 2629-2636.	1.2	7
70	TileCal Optical Multiplexer Board 9U prototype. , 2007, , .		0
71	Signal integrity studies at optical multiplexer board for tilecal system. Journal of Instrumentation, 2007, 2, T07002-T07002.	0.5	1
72	A VLSI for deskewing and fault tolerance in LVDS links. IEEE Transactions on Nuclear Science, 2006, 53, 801-809.	1.2	6

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73	Crosstalk immunity improvement in digital systems using binary phase shift keying. , 2006, , .		0
74	The ATLAS hadronic tile calorimeter: from construction toward physics. IEEE Transactions on Nuclear Science, 2006, 53, 1275-1281.	1.2	7
75	Development of the Optical Multiplexer Board Prototype for Data Acquisition in the TileCal System. IEEE Transactions on Nuclear Science, 2006, 53, 2131-2138.	1.2	8
76	Real time data processing of the TileCal calorimeter of the ATLAS detector. , 2005, , .		2
77	Development of the optical multiplexer board prototype for data acquisition in TileCal experiment. , 2005, , .		1
78	A VLSI for deskewing and fault tolerance in LVDS links. , 2005, , .		0
79	A measurement of the photonuclear interactions of 180 GeV muons in iron. European Physical Journal C, 2003, 28, 297-304.	1.4	5
80	Data monitoring in high-performance clusters for computing applications. IEEE Transactions on Nuclear Science, 2002, 49, 525-531.	1.2	0
81	Comparison of parallel versus hierarchical systems for data processing in distributed sensor networks. IEEE Transactions on Nuclear Science, 2002, 49, 394-400.	1.2	3
82	Hadron energy reconstruction for the ATLAS calorimetry in the framework of the non-parametrical method ATLAS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 480, 508-523.	0.7	36
83	SCI evaluation in multinode environments for computing and data-processing applications. IEEE Transactions on Nuclear Science, 2001, 48, 1306-1312.	1.2	2
84	A precise measurement of 180 GeV muon energy losses in iron. European Physical Journal C, 2001, 20, 487-495.	1.4	5
85	Results from a new combined test of an electromagnetic liquid argon calorimeter with a hadronic scintillating-tile calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 461-477.	0.7	21
86	Hadronic shower development in Iron-Scintillator Tile Calorimetry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 443, 51-70.	0.7	15
87	Giant magnetoresistive sensor in conductance control of switching regulators. IEEE Transactions on Magnetics, 2000, 36, 3578-3580.	1.2	16
88	The UA4/2 experiment at the CERN SpS collider. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 389, 409-414.	0.7	3
89	Study of a very long scintillating fiber TOF detector. Application to the Tau-Charm-Factory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 371, 397-405.	0.7	2
90	Measurement of the proton-antiproton total cross section at the SpS collider by a luminosity dependent method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 344, 451-454.	1.5	27

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91	The real part of the elastic-scattering amplitude at the $$Sar ppS$$ and predictions at LHC and SSCand predictions at LHC and SSC. Il Nuovo Cimento A, 1994, 107, 2093-2102.	0.2	0
92	Predictions on the total cross section and real part at LHC and SSC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 315, 503-506.	1.5	43
93	A precise measurement of the real part of the elastic scattering amplitude at the SpÌ„pS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 316, 448-454.	1.5	111
94	Charged particle multiplicity distributions inZ 0 hadronic decays. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1991, 50, 185-194.	1.5	82
95	Search for pair production of neutral Higgs bosons in Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 245, 276-288.	1.5	47
96	Study of hadronic decays of the Z0 boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 240, 271-282.	1.5	90
97	A study of intermittency in hadronic Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 247, 137-147.	1.5	71
98	Search for scalar quarks in Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 247, 148-156.	1.5	25
99	A search for sleptons and gauginos in Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 247, 157-166.	1.5	61
100	A comparison of jet production rates on the Z0 resonance to perturbative QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 247, 167-176.	1.5	63
101	Measurement of the partial width of the decay of the Z0 into charm quark pairs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 252, 140-148.	1.5	20
102	Energy-energy correlations in hadronic final states from Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 252, 149-158.	1.5	40
103	Study of the leptonic decays of the Z0 boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 425-434.	1.5	30
104	A precise measurement of the Z resonance parameters through its hadronic decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 435-448.	1.5	56
105	Search for heavy charged scalars in Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 449-458.	1.5	38
106	Search for the t and b' quarks in hadronic decays of the Z0 boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 242, 536-546.	1.5	18
107	A method for calibration and test of the time-of-flight detectors for delphi. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 292, 319-328.	0.7	5
108	Physical properties of the TOF (Time of Flight) scintillation counters of Delphi. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 290, 327-334.	0.7	13

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109	Search for light neutral Higgs particles produced in Z0-decays. Nuclear Physics B, 1990, 342, 1-14.	0.9	50
110	Measurement of the mass and width of the Z0-particle from multihadronic final states produced in e+eâˇ annihilations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 231, 539-547.	1.5	200
111	The TSU: a FASTBUS module for the TOF detector of DELPHI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 277, 347-357.	0.7	1
112	SCI evaluation in multinode environments for computing and data processing applications. , 0, , .		0
113	Giant magnetoresistive sensor in conductance control of switching regulators. , 0, , .		1
114	Real time data acquisition with read out driver system. , 0, , .		0
115	Data Acquisition in TileCal/ATLAS Experiment. Design of the Optical Multiplexer Board Prototype. , 0, , .		2
116	Production and Commissioning Performance Tests of the Read-Out Driver Boards for the Hadronic Tile Calorimeter of the ATLAS Detector at LHC. , 0, , .		2