

# Alessandro Rizzo

## List of Publications by Year in descending order

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147  
papers

3,103  
citations

159585

30  
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182427

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149  
all docs

149  
docs citations

149  
times ranked

1778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Algorithm for Radon Real-Time Measurements with a Pixelated Detector. <i>Sensors</i> , 2022, 22, 516.	3.8	1
2	Measurement of charged-pion production in deep-inelastic scattering off nuclei with the CLAS detector. <i>Physical Review C</i> , 2022, 105, .	2.9	7
3	Multidimensional, High Precision Measurements of Beam Single Spin Asymmetries in Semi-inclusive $e^+p \rightarrow e^-p\pi^0$ Electroproduction off Protons in the Valence Region. <i>Physical Review Letters</i> , 2022, 128, 062005.	7.8	5
4	Beam-spin asymmetry $\hat{\Sigma}$ for $\hat{\Sigma}^*$ hyperon photoproduction off the neutron. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 827, 136985.	4.1	9
5	Intercomparison of Radon Flux Monitors at Low and at High Radium Content Areas under Field Conditions. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4213.	2.6	11
6	Environmental Gamma Dose Rate Monitoring and Radon Correlations: Evidence and Potential Applications. <i>Environments - MDPI</i> , 2022, 9, 66.	3.3	4
7	Beam-recoil transferred polarization in $e^+p \rightarrow e^-p\pi^0$ electroproduction in the nucleon resonance region with CLAS12. <i>Physical Review C</i> , 2022, 105, .	2.9	4
8	Differential cross sections for $\hat{b}(1520)$ using photoproduction at CLAS. <i>Physical Review C</i> , 2021, 103, .	2.9	4
9	Beam Spin Asymmetry in Semi-Inclusive Electroproduction of Hadron Pairs. <i>Physical Review Letters</i> , 2021, 126, 062002.	7.8	9
10	Photoproduction of the $f_2(1270)$ Meson Using the CLAS Detector. <i>Physical Review Letters</i> , 2021, 126, 082002.	7.8	3
11	Observation of Beam Spin Asymmetries in the Process $e^+p \rightarrow e^-p\pi^0$ with CLAS12. <i>Physical Review Letters</i> , 2021, 126, 152501.	7.8	13
12	Measurement of the proton spin structure at long distances. <i>Nature Physics</i> , 2021, 17, 736-741.	16.7	14
13	Double polarisation observable $G$ for single pion photoproduction from the proton. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 817, 136304.	4.1	7
14	Measurement of deeply virtual Compton scattering off $^4\text{He}$ with the CEBAF Large Acceptance Spectrometer at Jefferson Lab. <i>Physical Review C</i> , 2021, 104, .	2.9	2
15	An experimental program with high duty-cycle polarized and unpolarized positron beams at Jefferson Lab. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	17
16	$12C(e,e'pN)$ measurements of short range correlations in the tensor-to-scalar interaction transition region. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 820, 136523.	4.1	18
17	Electron-beam energy reconstruction for neutrino oscillation measurements. <i>Nature</i> , 2021, 599, 565-570.	27.8	27
18	First Measurement of Timelike Compton Scattering. <i>Physical Review Letters</i> , 2021, 127, 262501.	7.8	19

#	ARTICLE	IF	CITATIONS
19	Beam "target helicity asymmetry E in $K^+\Lambda^0$ photoproduction on the neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135662.	4.1	8
20	Extraction of Beam-Spin Asymmetries from the Hard Exclusive $\gamma p \rightarrow \pi^0 p$ Channel off Protons in a Wide Range of Kinematics. Physical Review Letters, 2020, 125, 182001.	7.8	13
21	The PERSEO Experience: A Water-Filled Garment Prototype for Personal Radiation Protection of Astronauts Successfully Tested on Board the International Space Station. Aerotecnica Missili & Spazio, 2020, 99, 111-114.	0.9	3
22	Probing the core of the strong nuclear interaction. Nature, 2020, 578, 540-544.	27.8	65
23	The CLAS12 Spectrometer at Jefferson Laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 959, 163419.	1.6	75
24	The CLAS12 Forward Tagger. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 959, 163475.	1.6	13
25	Exclusive $\gamma p$ electroproduction off protons in the resonance region at photon virtualities $0.4 \text{ GeV}^2 \leq Q^2 \leq 1 \text{ GeV}^2$ . Physical Review C, 2020, 101, .	2.9	10
26	Photoproduction of $\Lambda^0$ mesons off the proton for $1.2 < E \leq 4.7 \text{ GeV}$ using CLAS at Jefferson Laboratory. Physical Review C, 2020, 102, .	2.9	2
27	Exploring the Structure of the Bound Proton with Deeply Virtual Compton Scattering. Physical Review Letters, 2019, 123, 032502.	7.8	15
28	Monte Carlo simulation of the LIDAL-ALTEA detector system. Journal of Physics: Conference Series, 2019, 1226, 012020.	0.4	1
29	LIDAL (Light Ion Detector for ALTEA): a compact Time-Of-Flight detector for radiation risk assessment in space. Journal of Physics: Conference Series, 2019, 1226, 012024.	0.4	3
30	Measurement of nuclear transparency ratios for protons and neutrons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134792.	4.1	15
31	First results on nucleon resonance photocouplings from the $\Lambda^0 p \rightarrow \Lambda^0 \pi^0 p$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 371-379.	4.1	20
32	Measurement of the beam spin asymmetry of $\gamma p \rightarrow \pi^0 p$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 426-431.	4.1	5
33	Direct Observation of Proton-Neutron Short-Range Correlation Dominance in Heavy Nuclei. Physical Review Letters, 2019, 122, 172502.	7.8	80
34	First Measurements of the Double-Polarization Observables $F_2^{\text{DPP}}$ , $P^{\text{DPP}}$ , and $H^{\text{DPP}}$ in $\gamma p \rightarrow \pi^0 p$ . Physical Review Letters, 2019, 122, 172502.	7.8	7
35	Comparisons of High-Energy Linear Energy Transfer Spectra on the ISS and in Deep Space. Space Weather, 2019, 17, 396-418.	3.7	13
36	Modified structure of protons and neutrons in correlated pairs. Nature, 2019, 566, 354-358.	27.8	105

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37	A compact Time-Of-Flight detector for radiation measurements in a space habitat: LIDAL – ALTEA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 898, 98-104.	1.6	2
38	Measurement of the $\sigma(\pi^0 p \rightarrow \pi^+ n)$ cross section and its moments at low $Q^2$ and dependence of the deuteron spin structure function $g_1^d$ and its moments at low $Q^2$ and virtual Compton scattering on the proton at Jefferson Laboratory with CLAS. Physical Review C, 2018, 98, .	7.8	16
39	Measurement of unpolarized and polarized cross sections for deeply virtual Compton scattering on the proton at Jefferson Laboratory with CLAS. Physical Review C, 2018, 98, .	2.9	8
40	Beam-target helicity asymmetry E in $K_0^0$ and $K_0^0 \Lambda^0$ photoproduction on the neutron. Physical Review C, 2018, 98, .	2.9	8
41	Search for a dark photon in electroproduced $e^+e^-$ pairs with the Heavy Photon Search experiment at JLab. Physical Review D, 2018, 98, .	4.7	33
42	Photoproduction of $\pi^0$ meson pairs from threshold to $W = 3.3$ GeV. Physical Review C, 2018, 98, .	2.9	5
43	Photoproduction of $K^0$ meson pairs on the proton. Physical Review D, 2018, 98, .	4.7	7
44	Center of Mass Motion of Short-Range Correlated Nucleon Pairs studied via the $A(e, e'p)$ stretch. Physical Review C, 2018, 98, .	7.8	42
45	A compact Time-Of-Flight detector for space applications: The LIDAL system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 898, 98-104.	1.6	11
46	Double $K_S^0$ photoproduction off the proton at CLAS. Physical Review C, 2018, 97, .	2.9	6
47	Semi-inclusive $\pi^0$ target and beam-target asymmetries from 6 GeV electron scattering with CLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 662-667.	4.1	2
48	Hard exclusive pion electroproduction at backward angles with CLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 340-345.	4.1	14
49	Measurement of the beam asymmetry $\hat{\Sigma}$ and the target asymmetry T in the photoproduction of $\pi^0$ mesons off the proton using CLAS at Jefferson Laboratory. Physical Review C, 2018, 97, .	2.9	7
50	A water-filled garment to protect astronauts during interplanetary missions tested on board the ISS. Life Sciences in Space Research, 2018, 18, 1-11.	2.3	18
51	Probing high-momentum protons and neutrons in neutron-rich nuclei. Nature, 2018, 560, 617-621.	27.8	127
52	Measurements of the $\pi^0 p \rightarrow \pi^+ n$ cross section with the CLAS detector for $0.4 \text{ GeV}^2 < Q^2 < 1.0 \text{ GeV}^2$ and $1.3 \text{ GeV} < W < 1.825 \text{ GeV}$ . Physical Review C, 2018, 98, .	2.9	14
53	First measurement of $\hat{\Sigma}$ polarization in photoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 783, 280-286.	4.1	2
54	Differential cross section for $\pi^0$ production using CLAS at Jefferson Lab. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 646-651.	4.1	3

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55	up to large values of Mandelstam variables $s$ , $t$ and $u$ . $\nu$ - $\nu$ photoproduction of $\pi^0$ and $\eta$ . Physical Review C, 2017, 95, .	2.9	4
56	The HPS electromagnetic calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 854, 89-99.	1.6	8
57	Beam-target double-spin asymmetry in quasielastic electron scattering off the deuteron with CLAS. Physical Review C, 2017, 95, .	2.9	5
58	Target and double spin asymmetries of deeply virtual $\pi^0$ production with a longitudinally polarized proton target and CLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 168-173.	4.1	14
59	Target and beam-target spin asymmetries in exclusive pion electroproduction for $Q^2 < 2 \text{ GeV}^2$ . Physical Review C, 2017, 95, .	2.9	4
60	Differential cross section measurements for $\bar{p}n \rightarrow \bar{p}p$ above the first nucleon resonance region. Physical Review C, 2017, 96, .	2.9	19
61	Measurements of $\pi^0$ electroproduction cross sections with CLAS at $Q^2 > 1.40 \text{ GeV}^2$ . Physical Review C, 2017, 96, .	2.9	29
62	Beam-Target Helicity Asymmetry for $\bar{p}n \rightarrow \bar{p}p$ in the $N^*$ Resonance Region. Physical Review Letters, 2017, 118, 242002.	7.8	26
63	Photon beam asymmetry $A_{\text{photon}}$ for $\pi^0$ and $\eta$ photoproduction from the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 213-221.	4.1	32
64	Exclusive $\pi^0$ electroproduction at $Q^2 > 1 \text{ GeV}^2$ with CLAS and transverse generalized parton distributions. Physical Review C, 2017, 95, .	2.9	16
65	Measurement of the differential and total cross sections of the $\pi^0$ electroproduction reaction within the resonance region. Physical Review C, 2017, 96, .	7.8	30
66	Measurement of the helicity asymmetry $A_{\text{photon}}$ for $\pi^0$ electroproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 112-117.	4.1	11
67	Performances of Kevlar and Polyethylene as radiation shielding on-board the International Space Station in high latitude radiation environment. Scientific Reports, 2017, 7, 1644.	3.3	41
68	Measurement of two-photon exchange effect by comparing elastic $\pi^0$ cross sections. Physical Review C, 2017, 95, .	2.9	13
69	Measurement of the helicity asymmetry $A_{\text{photon}}$ for $\pi^0$ photoproduction. Physical Review C, 2017, 96, .	2.9	30
70	Determination of the proton spin structure functions for $0.05 < Q^2 < 5 \text{ GeV}^2$ using CLAS. Physical Review C, 2017, 96, .	2.9	30
71	Exploiting different active silicon detectors in the International Space Station: ALTEA and DOSTEL galactic cosmic radiation (GCR) measurements. Journal of Space Weather and Space Climate, 2017, 7, A18.	3.3	10

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73	The hybrid mesons quest: the MesonEx experiment at Jefferson Laboratory. Journal of Physics: Conference Series, 2016, 689, 012022.	0.4	3
74	Measurement of target and double-spin asymmetries for the $e p \rightarrow e f^- \bar{p}^+$ reaction in the nucleon resonance region at low. Physical Review C, 2016, 94, .	2.9	6
75	First measurement of the helicity asymmetry E in photoproduction on the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 64-69.	4.1	33
76	Photoproduction of $\Lambda$ hyperons using linearly polarized photons. Physical Review C, 2016, 93, .	2.9	46
77	Photoproduction of the $\Lambda$ hyperon. Physical Review C, 2016, 93, .	2.9	26
78	Target and beam-target spin asymmetries in exclusive $e p \rightarrow e \bar{p}^+ \gamma$ and $e p \rightarrow e \bar{p}^+ \gamma^*$ electroproduction with 1.6- to 5.7-GeV electrons. Physical Review C, 2016, 94, .	2.9	5
79	The meson spectroscopy program with CLAS12 at Jefferson Laboratory. , 2016, , .		2
80	Precise determination of the deuteron spin structure at low to moderate $Q^2$ and extraction of the neutron contribution. Physical Review C, 2015, 92, .	2.9	27
81	Search for baryon-number and lepton-number violating decays of $\Lambda$ hyperons using the CLAS detector at Jefferson Laboratory. Physical Review D, 2015, 92, .	4.7	15
82	Cross Sections for the Exclusive Photon Electroproduction on the Proton and Generalized Parton Distributions. Physical Review Letters, 2015, 115, 212003.	7.8	73
83	Determination of the beam-spin asymmetry of deuteron photodisintegration in the energy region $E_{\gamma} = 1.1$ to $2.3$ GeV. Physical Review C, 2015, 91, .	2.9	5
84	First measurement of the polarization observable E in the $e p \rightarrow e p \gamma$ reaction at low. Physical Review C, 2016, 94, .		

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91	Publisher's Note: Exclusive at Exclusive with CLAS. Physical Review C, 2014, 90, .	2.9	6
92	at with CLAS. Physical Review C, 2014, 90, .	2.9	30
93	Induced polarization of $\Lambda(1116)$ in kaon electroproduction. Physical Review C, 2014, 90, .	2.9	8
94	$\Lambda$ -meson photoproduction on hydrogen in the neutral decay mode. Physical Review C, 2014, 89, .	2.9	31
95	Precision measurements of $g_1$ of the proton and of the deuteron with 6 GeV electrons. Physical Review C, 2014, 90, .	2.9	33
96	Publisher's Note: Data analysis techniques, differential cross sections, and spin density matrix elements for the reaction $\bar{p}p \rightarrow \Lambda^0 p$ [Phys. Rev. C89, 055208 (2014)]. Physical Review C, 2014, 90, .	2.9	15
97	Strangeness Suppression of $\Lambda^0$ Creation Observed in Exclusive Reactions. Physical Review Letters, 2014, 113, 152004.	7.8	14
98	Spin and parity measurement of the $\Lambda(1405)$ meson. Physical Review Letters, 2014, 113, 152004.	7.8	43
99	Spin and parity measurement of the $\Lambda(1405)$ meson. Physical Review Letters, 2014, 113, 152004.	7.8	43
100	Design and realization of a facility for the characterization of Silicon Avalanche PhotoDiodes. Journal of Instrumentation, 2014, 9, T09002-T09002.	1.2	3
101	Beam-spin asymmetries from semi-inclusive pion electroproduction. Physical Review D, 2014, 89, .	4.7	19
102	Momentum sharing in imbalanced Fermi systems. Science, 2014, 346, 614-617.	12.6	233
103	Measurement of the structure function of the nearly free neutron using spectator tagging in inelastic $eN$ scattering. Physical Review Letters, 2014, 113, 152004.		

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109	Beam asymmetry $\langle \sigma_{\text{p}} \rangle$ for $\langle \sigma_{\text{p}} \rangle$ on the proton for photon energies from 1.102 to 1.862 GeV. Physical Review C, 2013, 88, .	2.0	0
110	Experimental tests of quantum mechanics: Pauli exclusion principle violation and spontaneous collapse models. , 2012, , .		0
111	Experimental tests of Quantum Mechanics: from Pauli Exclusion Principle Violation to spontaneous collapse models. Journal of Physics: Conference Series, 2012, 361, 012006.	0.4	5
112	Kaonic atoms measurements at the DAFNE accelerator: the SIDDHARTA experiment. Journal of Physics: Conference Series, 2012, 348, 012003.	0.4	0
113	Kaonic atoms measurements at the DAΦNE collider: the SIDDHARTA experiment. Journal of Physics: Conference Series, 2012, 383, 012004.	0.4	0
114	Measurements of the strong-interaction widths of the kaonic 3He and 4He 2p levels. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 40-43.	4.1	33
115	X-ray spectroscopy of light kaonic atoms – new results and perspectives. Nuclear Physics, Section B, Proceedings Supplements, 2012, 233, 173-178.	0.4	0
116	A glimpse into the Pandora box of the quantum mechanics: The Pauli exclusion principle violation and spontaneous collapse models put at test. , 2012, , .		2
117	Kaon-nuclei interaction studies at low energies (the AMADEUS project). EPJ Web of Conferences, 2012, 37, 07002.	0.3	0
118	Kaonic 3He and 4He measurements in the SIDDHARTA experiment at the DAΦNE collider. EPJ Web of Conferences, 2012, 37, 02002.	0.3	0
119	Studies of the $\{K\}N$ interaction at DAΦNE. Hyperfine Interactions, 2012, 210, 107-110.	0.5	1
120	Results from the kaonic hydrogen X-ray measurement at DAFNE and outlook to future experiments. Hyperfine Interactions, 2012, 209, 121-126.	0.5	3
121	Kaonic 3He and 4He X-ray measurements in SIDDHARTA. Hyperfine Interactions, 2012, 209, 139-143.	0.5	1
122	Experimental tests of the trigger prototype for the AMADEUS experiment based on Sci-Fi read by MPPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 671, 125-128.	1.6	7
123	Kaonic hydrogen X-ray measurement in SIDDHARTA. Nuclear Physics A, 2012, 881, 88-97.	1.5	116
124	Kaonic 3He and 4He X-ray measurements in SIDDHARTA. , 2012, , 139-143.		0
125	Precision spectroscopy of light kaonic atom X-rays in the SIDDHARTA experiment. , 2011, , .		0
126	Testing the Pauli Exclusion Principle for electrons. Journal of Physics: Conference Series, 2011, 335, 012060.	0.4	2



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127	Experimental tests of quantum mechanics â€“ Pauli exclusion principle violation (the VIP experiment) and future perspective. Journal of Physics: Conference Series, 2011, 306, 012036.	0.4	9
128	Kaonic helium X-ray measurement in the SIDDHARTA experiment. Journal of Physics: Conference Series, 2011, 312, 022021.	0.4	0
129	Experimental tests of quantum mechanics: Pauli Exclusion Principle Violation (the VIP experiment) and future perspectives. Physics Procedia, 2011, 17, 40-48.	1.2	8
130	A new measurement of kaonic hydrogen X-rays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 113-117.	4.1	314
131	Low-Energy Kaonâ€™Nucleon/Nuclei Interaction Studies at DAÎ NE (SIDDHARTA and AMADEUS Experiments). Few-Body Systems, 2011, 50, 447-449.	1.5	4
132	Kaon-nucleon/nuclei interaction studies by kaonic atoms measurements: the SIDDHARTA experiment at DAÎ NE. Nuclear Physics, Section B, Proceedings Supplements, 2011, 210-211, 189-192.	0.4	0
133	Performance of silicon-drift detectors in kaonic atom X-ray measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 628, 264-267.	1.6	27
134	First measurement of kaonic helium-3 X-rays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 199-202.	4.1	65
135	Experimental studies on kaonic atoms at DAÎ NE. , 2011, , .		0
136	X-RAY SPECTROSCOPY OF KAONIC ATOMS AT DAÎ NE. International Journal of Modern Physics A, 2011, 26, 432-437.	1.5	0
137	KAONIC HELIUM MEASUREMENTS IN THE SIDDHARTA EXPERIMENT. International Journal of Modern Physics A, 2011, 26, 601-603.	1.5	1
138	Studies of antikaon interactions with nucleons at DAÎ NE. , 2011, , .		1
139	Studies of the $\bar{K}N$ interaction at DAÎ NE. , 2011, , 257-260.		0
140	The AMADEUS experiment â€™ precision measurements of low-energy antikaon nucleus/nucleon interactions. Nuclear Physics A, 2010, 835, 410-413.	1.5	6
141	Performances of a GEM-based TPC prototype for new high-rate particle experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 183-185.	1.6	2
142	Kaon-nucleon strong interaction in kaonic atoms. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 208-211.	0.4	0
143	Precision Spectroscopy of Kaonic Atoms at DAÎ NE. EPJ Web of Conferences, 2010, 3, 03023.	0.3	2
144	Low energy kaon nuclei interaction studies at DAÎ NE. EPJ Web of Conferences, 2010, 3, 03021.	0.3	0

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145	Precision spectroscopy of Kaonic helium-3 and helium-4 $3d\pi^2p$ X-rays. , 2010, , .		0
146	Precision spectroscopy of light kaonic atom X-rays in the SIDDHARTA experiment. , 2010, , .		0
147	Kaonic helium-4 X-ray measurement in SIDDHARTA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 681, 310-314.	4.1	87