

Zisis Papandreou

List of Publications by Year in descending order

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110
papers

4,226
citations

172457

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110387

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110
docs citations

110
times ranked

1392
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for photoproduction of axionlike particles at GlueX. <i>Physical Review D</i> , 2022, 105, .	4.7	8
2	The GlueX beamline and detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 987, 164807.	1.6	37
3	Measurement of beam asymmetry for π^0 photoproduction on the proton at $\sqrt{s} = 1.76$ GeV. <i>Physical Review C</i> , 2021, 103, .	2.9	4
4	Soil Buffering Capacity Can Be Used To Optimize Biostimulation of Psychrotrophic Hydrocarbon Remediation. <i>Environmental Science & Technology</i> , 2021, 55, 9864-9875.	10.0	4
5	Development of a novel high quantum efficiency MV γ detector for image-guided radiotherapy: A feasibility study. <i>Medical Physics</i> , 2020, 47, 152-163.	3.0	4
6	Measurement of the photon beam asymmetry in π^0 photoproduction at $\sqrt{s} = 8.5$ GeV. <i>Physical Review C</i> , 2020, 101, .	2.9	4
7	First Measurement of Near-Threshold π^0 Exclusive Photoproduction off the Proton. <i>Physical Review Letters</i> , 2019, 123, 072001.	7.8	125
8	Numerical investigation of a transformable modular PET system: Consideration of point-spread functions, module arrangements, and operation protocols. <i>AIP Conference Proceedings</i> , 2019, .	0.4	0
9	Measurement of the beam asymmetry Σ for π^0 photoproduction of π^0 mesons at $\sqrt{s} = 1.76$ GeV. <i>Physical Review C</i> , 2018, 98, 044907.	2.9	12
10	Construction and performance of the barrel electromagnetic calorimeter for the GlueX experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 896, 24-42.	1.6	22
11	Plant-Specific Modular PET: Data Processing with CASToR and Performance Evaluation. , 2018, .		1
12	Measurement of the beam asymmetry Σ for π^0 and η photoproduction on the proton at $\sqrt{s} = 9$ GeV. <i>Physical Review C</i> , 2017, 95, .	2.9	49
13	First results from the GlueX experiment. <i>AIP Conference Proceedings</i> , 2016, .	0.4	40
14	Methodology for the Determination of the Photon Detection Efficiency of Large-Area Multi-Pixel Photon Counters. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 1865-1872.	2.0	2
15	Light yield of Kuraray SCSF-78MJ scintillating fibers for the GlueX barrel calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 767, 245-251.	1.6	2
16	Relative gain monitoring of the GlueX calorimeters. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 738, 41-49.	1.6	2
17	Attenuation length and spectral response of Kuraray SCSF-78MJ scintillating fibres. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 715, 48-55.	1.6	13
18	Virtual Compton scattering and the generalized polarizabilities of the proton at $\sqrt{s} = 1.76$ GeV. <i>Physical Review C</i> , 2012, 86, .	2.9	15

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19	Measurement of $K^+ \rightarrow \pi^0 \gamma$ radiative capture to $\hat{1}^3$ and $\hat{1}^1$ for K^+ between 514 and 750 MeV/c. Physical Review C, 2010, 82, .	2.9	0
20	Measurement of the total cross section of the reaction $K^+ p \rightarrow \pi^0 \hat{1}^3$ between 514 and 750 MeV/c. Physical Review C, 2009, 79, .	2.9	1
21	Virtual Compton scattering and neutral pion electroproduction in the resonance region up to the deep inelastic region at backward angles. Physical Review C, 2009, 79, .	2.9	3
22	Measurement of $K^+ \rightarrow \pi^0 \gamma$ radiative capture to $\hat{1}^3$ and $\hat{1}^1$ for K^+ between 514 and 750 MeV/c. Physical Review C, 2010, 82, .	2.9	22
23	Differential cross sections of the charge-exchange reaction $K^+ p \rightarrow \pi^0 \hat{1}^3$ between 514 and 750 MeV/c. Physical Review C, 2009, 79, .	2.9	0
24	Differential cross sections of the charge-exchange reaction $K^+ p \rightarrow \pi^0 \hat{1}^3$ between 514 and 750 MeV/c. Physical Review C, 2009, 79, .	2.9	0
24	the momentum range from $103 < p_{\pi^0} < 104$ MeV/c. Physical Review C, 2009, 80, .	2.9	0
25	Spectral response of scintillating fibers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 596, 338-346.	1.6	22
26	Performance of the prototype module of the GlueX electromagnetic barrel calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 596, 327-337.	1.6	18
27	Measurement of the invariant-mass spectrum for the two photons from the $K^+ \rightarrow \pi^0 \gamma \gamma$ decay. Physical Review C, 2008, 78, .	2.9	22
28	Measurement of the $K^+ p \rightarrow \pi^0 \hat{1}^3$ reaction between 514 and 750 MeV/c. Physical Review C, 2008, 77, .	2.9	17
29	Spin-Dependent Cross Sections and Sum Rules. Physical Review Letters, 2008, 101, 022303.	7.8	21
30	Rare Decays of the $\hat{1}^-$ Meson. AIP Conference Proceedings, 2006, .	0.4	2
31	Polarization transfer in the $H^2(e^+e^-, e^+e^+ \pi^+)$ reaction up to $Q^2=1.61(\text{GeV}/c)^2$. Physical Review C, 2006, 73, .	2.9	32
32	Comparison of a silicon photomultiplier to a traditional vacuum photomultiplier. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 538, 408-415.	1.6	72
33	Measurement of $\hat{1}^- \rightarrow \pi^+ \hat{1}^-$ from threshold to $\hat{1}^- = 747 \text{ MeV}/c$. Physical Review C, 2005, 72, .	2.9	47
34	Measurement of $\hat{1}^- \rightarrow \pi^+ \hat{1}^-$ in the vicinity of the $\hat{1}^-$ threshold. Physical Review C, 2005, 72, .	2.9	8
35	Test of Charge Conjugation Invariance. Physical Review Letters, 2005, 94, 041601.	7.8	9
36	Search for the forbidden decays $\hat{1}^- \rightarrow \pi^+ \hat{1}^-$ and $\hat{1}^- \rightarrow \pi^0 \hat{1}^-$ and the rare decay $\hat{1}^- \rightarrow \pi^0 \hat{1}^-$. Physical Review C, 2005, 72, .	2.9	8

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37	Measurement of the branching ratio for $\Lambda^0 \rightarrow \Sigma^0 \gamma$ decay. Physical Review C, 2005, 72, .	2.9	16
38	Proton elastic form factor ratios to $Q^2=3.5\text{GeV}^2$ by polarization transfer. Physical Review C, 2005, 71, .	2.9	313
39	Publisher's Note: Proton elastic form factor ratios to $Q^2=3.5\text{GeV}^2$ by polarization transfer [Phys. Rev. C 71, 055202 (2005)]. Physical Review C, 2005, 71, .	2.9	112
40	Dynamics of the quasielastic $^{16}\text{O}(e,e'p)$ reaction at $Q^2 \approx 0.8(\text{GeV}/c)^2$. Physical Review C, 2004, 70, .	2.9	30
41	$K^+ p \rightarrow \pi^0 \Lambda^0$ at $p_{K^+} = 514$ to $750\text{MeV}/c$ and comparison with other Λ^0 production. Physical Review C, 2004, 70, .	2.9	91
42	Measurement of inverse pion photoproduction at energies spanning the $N(1440)$ resonance. Physical Review C, 2004, 70, .	2.9	23
43	Q^2 Evolution of the Neutron Spin Structure Moments using a ^3He Target. Physical Review Letters, 2004, 92, 022301.	7.8	68
44	Measurement of the Generalized Forward Spin Polarizabilities of the Neutron. Physical Review Letters, 2004, 93, 152301.	7.8	31
45	Measurement of $\pi^+ p \rightarrow \pi^0 n$ from threshold to $p_{\pi^+} = 750\text{MeV}/c$. Physical Review C, 2004, 69, .	2.9	53
46	Backward electroproduction of ρ^0 mesons on protons in the region of nucleon resonances at four momentum transfer squared $Q^2=1.0\text{GeV}^2$. Physical Review C, 2004, 69, .	2.9	25
47	Reaction $K^+ p \rightarrow \pi^0 \Lambda^0$ from $p_{K^+} = 514$ to $750\text{MeV}/c$. Physical Review C, 2004, 69, .	2.9	31
48	Differential cross section of the charge-exchange reaction $\pi^+ p \rightarrow \pi^0 n$ in the momentum range from 148 to $323\text{MeV}/c$. Physical Review C, 2004, 69, .	2.9	21
49	Measurement of the Generalized Polarizabilities of the Proton in Virtual Compton Scattering at $Q^2=0.92$ and 1.76GeV^2 . Physical Review Letters, 2004, 93, 122001.	7.8	33
50	Scaling in quasifree pion-single-charge exchange. Physical Review C, 2004, 69, .	2.9	7
51	Basic instrumentation for Hall A at Jefferson Lab. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 522, 294-346.	1.6	215
52	Does the $\Sigma(1580)3/2^+$ resonance exist?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 588, 29-34.	4.1	11
53	Relative branching ratio of the $\Lambda^0 \rightarrow \Sigma^0 \gamma$ decay channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 589, 14-20.	4.1	11
54	Measurement of the total and differential cross sections for the reaction $\bar{p} p \rightarrow n$ with the Crystal Ball detector. Physics of Atomic Nuclei, 2003, 66, 110-113.	0.4	9

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55	Dynamics of the π^+p Reaction for $\sqrt{s} < 750$ MeV/c. Physical Review Letters, 2003, 91, 102301.	7.8	12
56	Measurement of the total cross section from threshold to 0.75 GeV/c. Physical Review C, 2003, 67, .	2.9	8
57	In-medium spectral function study via the $H^2, He^3, C^{12}(\pi^+, \pi^0)$ reaction. Physical Review C, 2003, 68, .	2.9	25
58	Search for K^+p from threshold to $\sqrt{s} = 750$ MeV/c. Physical Review C, 2003, 68, .	2.9	7
59	Q2 Evolution of the Generalized Gerasimov-Drell-Hearn Integral for the Neutron using a 3He Target. Physical Review Letters, 2002, 89, 242301.	7.8	73
60	Electron-Induced Neutron Knockout from 4He . Physical Review Letters, 2002, 89, 172501.	7.8	1
61	Measurement of G_{E_p}/G_{M_p} to $Q^2 = 5.6$ GeV ² . Physical Review Letters, 2002, 88, 092301.	7.8	588
62	Operational performance of the Hall A mirror aerogel Cherenkov counter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 487, 346-352.	1.6	1
63	Helicity signatures in subthreshold π^0 production on nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 528, 65-72.	4.1	1
64	The (π^+, pd) and (π^+, dd) reactions on light nuclei at 100 and 165 MeV incident pion energies. Nuclear Physics A, 2002, 705, 367-395.	1.5	1
65	Measurement of neutron detection efficiencies in NaI using the Crystal Ball detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 462, 463-473.	1.6	19
66	Measurement of K^+p near threshold. Physical Review C, 2001, 64, .	2.9	190
67	Properties of the $(1670)_{12}^-$ Resonance. Physical Review Letters, 2001, 88, 012002.	7.8	16
68	Determination of the Quadratic Slope Parameter in π^0 Decay. Physical Review Letters, 2001, 87, 192001.	7.8	57
69	Dynamics of the $^{16}O(e, e^2p)$ Reaction at High Missing Energies. Physical Review Letters, 2001, 86, 5670-5674.	7.8	18
70	Dynamical Relativistic Effects in Quasielastic $1p$ -Shell Proton Knockout from ^{16}O . Physical Review Letters, 2000, 84, 3265-3269.	7.8	66
71	Search for the CP Forbidden Decay $\Lambda \rightarrow 4\pi^0$. Physical Review Letters, 2000, 84, 4802-4805.	7.8	15
72	Measurement of π^0 Production in the Nuclear Medium by π^+ Interactions at 0.408 GeV/c. Physical Review Letters, 2000, 85, 5539-5542.	7.8	67

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73	Probing the ^3He NN component of ^3He . Physical Review C, 2000, 62, .	2.9	8
74	Polarization transfer in the $^{16}\text{O}(e, e'p)^{15}\text{N}$ reaction. Physical Review C, 2000, 62, .	2.9	49
75	Three- and four-nucleon mechanisms in pion absorption. Physical Review C, 2000, 61, .	2.9	1
76	GEp/GMp Ratio by Polarization Transfer in $e, e'p$. Physical Review Letters, 2000, 84, 1398-1402.	7.8	665
77	Evidence for a deep scalar field from π^0 mass modification in ^3He . Physical Review C, 1999, 59, R1864-R1868.	2.9	3
78	Measurements of the Deuteron Elastic Structure Function $A(Q^2)$ for $0.7 \leq Q^2 \leq 6.0$ (GeV/c) 2 at Jefferson Laboratory. Physical Review Letters, 1999, 82, 1374-1378.	7.8	90
79	Subthreshold π^0 photoproduction on ^3He . Physical Review C, 1999, 60, .	2.9	11
80	Analytical method for polarimeter design optimization. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 430, 110-126.	1.6	2
81	Probing the π^0 Mass Modification in the Subthreshold Region on ^3He . Physical Review Letters, 1998, 80, 5285-5288.	7.8	20
82	Evidence for π^0 Mass Modification in the $^3\text{He}(\pi^3, \pi^0)pp$ Reaction. Physical Review Letters, 1998, 80, 241-244.	7.8	55
83	Spin-transfer measurements of the $^3\text{He}(d, t)^2\text{He}$ reaction at energies spanning the ^3He resonance. Physical Review C, 1997, 55, 19-41.	2.9	1
84	Bruinset al. Reply:. Physical Review Letters, 1997, 79, 5187-5187.	7.8	11
85	Multinucleon contributions to the $^{12}\text{C}(\pi^+, pp)$ reaction at 100 and 165 MeV incident pion energies. Nuclear Physics A, 1997, 624, 623-654.	1.5	3
86	Performance and design characteristics for the Hall A aerogel Cherenkov counters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 385, 403-411.	1.6	4
87	The large-acceptance spectrometer TAGX for photoreaction studies at the 1.3-GeV Tokyo electron synchrotron. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 376, 335-355.	1.6	25
88	Role of quasideuteron absorption in the $^6\text{Li}(\pi^+, pp)$ reaction at $T_{\pi^+} = 100, 165$ MeV. Physical Review C, 1996, 54, 211-221.	2.9	6
89	Empirical tests and model of a silica aerogel Cherenkov detector for CEBAF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 365, 299-307.	1.6	17
90	Two-nucleon knock-out investigated with the semi-exclusive $^{12}\text{C}(e, e'p)$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 344, 79-84.	4.1	21

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91	${}^6\text{Li}(\pi^+, pp)4\text{He}$ s.reaction at 100 and 165 MeV incident pion energies. Physical Review C, 1995, 51, R2862-R2866.	2.9	6
92	Short-Range Nucleon-Nucleon Correlations Investigated with the Reaction ${}^{12}\text{C}(e, e\pi^2 pp)$. Physical Review Letters, 1995, 74, 1712-1715.	7.8	35
93	Measurement of the Neutron Magnetic Form Factor. Physical Review Letters, 1995, 75, 21-24.	7.8	139
94	A GEANT extension for polarized neutron-proton scattering. Computer Physics Communications, 1993, 74, 375-380.	7.5	2
95	The reactions in the dip region. Nuclear Physics A, 1993, 553, 709-712.	1.5	7
96	Multinucleon pion absorption in the ${}^4\text{He}(\pi^+, ppp)n$ reaction. Physical Review C, 1991, 43, 1553-1571.	2.9	20
97	Spin-transfer measurements of the ${}^3\text{He}(\pi^+ \rightarrow \pi^0 p) \rightarrow \pi^+ p$ reaction spanning the Δ^{++} resonance. Physical Review Letters, 1991, 66, 2573-2576.	7.8	10
98	Composite particle emission following negative pion absorption on ${}^{12}\text{C}$ at $T_{\pi^-} = 165$ MeV. Physical Review C, 1990, 41, R1339-R1343.	2.9	4
99	Pion-deuteron breakup reaction at 228 MeV. Physical Review C, 1990, 41, 193-201.	2.9	8
100	POLARIZATION MEASUREMENTS IN PION DEUTERON BREAKUP AND ABSORPTION. Journal De Physique Colloque, 1990, 51, C6-383-C6-386.	0.2	0
101	The reaction at 165 MeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 227, 25-29.	4.1	10
102	Multi-nucleon pion absorption in the ${}^4\text{He}(\pi^+, ppp)n$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 233, 281-285.	4.1	13
103	Multi-nucleon pion absorption in the ${}^4\text{He}(\pi^+, ppp)n$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 230, 31-35.	4.1	9
104	Charged and neutral particle spectrometer for nuclear pion and photon absorption investigations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 268, 179-185.	1.6	9
105	Energy response and reaction losses in plastic scintillators. Nuclear Instruments & Methods in Physics Research B, 1988, 34, 454-458.	1.4	12
106	${}^{16}\text{O}(\pi^+, \pi^0) {}^{17}\text{O}^*$ at incident proton energies of 250, 354, and 489 MeV. Physical Review C, 1988, 37, 215-223.	2.9	9
107	${}^7\text{Li}(\pi^+, \pi^0) {}^8\text{Li}^*$ at incident proton energies of 250, 354, and 489 MeV. Physical Review C, 1987, 36, 2683-2686.	2.9	3
108	Energy dependence of the ${}^{12}\text{C}(p, \pi^+) {}^{13}\text{C}$ reaction in the region of the Δ^{++} resonance. Physical Review C, 1987, 36, 1058-1065.	2.9	13

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109	A study of the reaction at 60, 80, 100 and 140 MeV incident pion beam energies. Nuclear Physics A, 1986, 456, 629-643.	1.5	2
110	Angular dependence of the reaction at 60 and 80 MeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 156, 47-50.	4.1	5