

Zisis Papandreou

List of Publications by Year in descending order

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110
papers

4,226
citations

172207

29
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64
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110
all docs

110
docs citations

110
times ranked

1392
citing authors

#	ARTICLE	IF	CITATIONS
19	Polarization transfer in the $^{16}\text{O}(e^+p^+)^{15}\text{N}$ reaction. <i>Physical Review C</i> , 2000, 62, .	1.1	49
20	Measurement of the beam asymmetry Σ for π^0 and π^+ photoproduction on the proton at $E^3=9$ GeV. <i>Physical Review C</i> , 2017, 95, .	1.1	49
21	Measurement of π^+p^+ from threshold to $p^+=747\text{MeV}/c$. <i>Physical Review C</i> , 2005, 72, .	1.1	47
22	First results from the GlueX experiment. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	40
23	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.	0.7	37
24	Short-Range Nucleon-Nucleon Correlations Investigated with the Reaction $C^{12}(e,e^2pp)$. <i>Physical Review Letters</i> , 1995, 74, 1712-1715.	2.9	35
25	Measurement of the Generalized Polarizabilities of the Proton in Virtual Compton Scattering at $Q^2=0.92$ and 1.76GeV^2 . <i>Physical Review Letters</i> , 2004, 93, 122001.	2.9	33
26	Polarization transfer in the $\text{H}^2(e^+p^+)$ reaction up to $Q^2=1.61(\text{GeV}/c)^2$. <i>Physical Review C</i> , 2006, 73, .	1.1	32
27	Measurement of the Generalized Forward Spin Polarizabilities of the Neutron. <i>Physical Review Letters</i> , 2004, 93, 152301.	2.9	31
28	Reaction $K^+p^+\rightarrow\pi^0\pi^+$ from $p^+=514$ to $750\text{MeV}\cdot c$. <i>Physical Review C</i> , 2004, 69, .	1.1	31
29	Dynamics of the quasielastic $\text{O}^{16}(e,e^2p)$ reaction at $Q^2\approx 0.8(\text{GeV}\cdot c)^2$. <i>Physical Review C</i> , 2004, 70, .	1.1	30
30	The large-acceptance spectrometer TAGX for photoreaction studies at the 1.3-GeV Tokyo electron synchrotron. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 376, 335-355.	0.7	25
31	In-medium ρ spectral function study via the $\text{H}^2,\text{He}^3,C^{12}(\hat{\pi}^3,\hat{\pi}^+)$ reaction. <i>Physical Review C</i> , 2003, 68, .	1.1	25
32	Backward electroproduction of ρ^0 mesons on protons in the region of nucleon resonances at four momentum transfer squared $Q^2=1.0\text{GeV}^2$. <i>Physical Review C</i> , 2004, 69, .	1.1	25
33	Measurement of inverse pion photoproduction at energies spanning the $N(1440)$ resonance. <i>Physical Review C</i> , 2004, 70, .	1.1	23
34	Spectral response of scintillating fibers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 596, 338-346.	0.7	22
35	Measurement of the invariant-mass spectrum for the two photons from the $\gamma\gamma$ production. <i>Physical Review C</i> , 2008, 77, 054002.	1.1	22
36	Measurement of the K^+p^+ reaction at $p^+=747\text{MeV}/c$. <i>Physical Review C</i> , 2009, 80, .	1.1	22

#	ARTICLE	IF	CITATIONS
37	Construction and performance of the barrel electromagnetic calorimeter for the GlueX experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 896, 24-42.	0.7	22
38	Two-nucleon knock-out investigated with the semi-exclusive $^{12}\text{C}(e, e\epsilon^2p)$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 344, 79-84.	1.5	21
39	Differential cross section of the charge-exchange reaction $\bar{K}^0 \rightarrow \pi^+ n$ in the momentum range from 148 to 323 MeV/c. Physical Review C, 2004, 69, .	1.1	21
40	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{He} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ Spin-Dependent Cross Sections and Sum Rules. Physical Review Letters, 2008, 101, 022303.	2.9	21
41	Multinucleon pion absorption in the $^4\text{He}(\bar{K}^0, ppp)n$ reaction. Physical Review C, 1991, 43, 1553-1571.	1.1	20
42	Probing the σ Mass Modification in the Subthreshold Region on ^3He . Physical Review Letters, 1998, 80, 5285-5288.	2.9	20
43	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.	0.7	19
44	Dynamics of the $^{16}\text{O}(e, e\epsilon^2p)$ Reaction at High Missing Energies. Physical Review Letters, 2001, 86, 5670-5674.	2.9	18
45	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.	0.7	18
46	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.	0.7	17
47	Measurement of the $\bar{K}^0 \rightarrow \pi^+ n$ reaction between 514 and 750 MeV/c. Physical Review C, 2008, 77, .	1.1	17
48	Properties of the $\rho(1670)$ Resonance. Physical Review Letters, 2001, 88, 012002.	2.9	16
49	Measurement of the branching ratio for $\bar{K}^0 \rightarrow \pi^+ \pi^-$ decay. Physical Review C, 2005, 72, .	1.1	16
50	Search for the CP Forbidden Decay $\bar{K}^0 \rightarrow \pi^+ \pi^-$. Physical Review Letters, 2000, 84, 4802-4805.	2.9	15
51	Virtual Compton scattering and the generalized polarizabilities of the proton at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle Q \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1.1 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 15 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ 1.76 GeV $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$. Physical Review C, 2012, 86, .	1.1	15
52	Energy dependence of the $^{12}\text{C}(p, \bar{K}^0)^{13}\text{C}$ reaction in the region of the $\rho(1232)$ resonance. Physical Review C, 1987, 36, 1058-1065.	1.1	13
53	Multi-nucleon pion absorption in the $^4\text{He}(\bar{K}^0, ppp)n$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 233, 281-285.	1.5	13
54	Attenuation length and spectral response of Kuraray SCSF-78MJ scintillating fibres. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 715, 48-55.	0.7	13

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55	Energy response and reaction losses in plastic scintillators. Nuclear Instruments & Methods in Physics Research B, 1988, 34, 454-458.	0.6	12
56	Dynamics of the $\pi^+p \rightarrow \pi^0 n$ reaction for $p < 750 \text{ MeV/c}$. Physical Review Letters, 2003, 91, 102301.9	1.9	12
57	Beam asymmetry $\langle \mathbf{l} \cdot \hat{\mathbf{p}} \rangle$ for the photoproduction of π^+ and π^0 mesons at $\sqrt{s} < 1.2 \text{ GeV}$	1.1	12
58	Bruinset al.Reply:. Physical Review Letters, 1997, 79, 5187-5187.	2.9	11
59	Subthreshold π^0 photoproduction on ^3He . Physical Review C, 1999, 60, .	1.1	11
60	Does the $\pi(1580)32^+$ resonance exist?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 588, 29-34.	1.5	11
61	Relative branching ratio of the $\pi^+ \rightarrow \pi^0 \pi^+$ decay channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 589, 14-20.	1.5	11
62	The reaction at 165 MeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 227, 25-29.	1.5	10
63	Spin-transfer measurements of the $\pi^+p \rightarrow \pi^0 n$ reaction spanning the π^+ resonance. Physical Review Letters, 1991, 66, 2573-2576.	2.9	10
64	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.	0.7	9
65	$O^{16}(\pi^+, \pi^+)^{17}$ at incident proton energies of 250, 354, and 489 MeV. Physical Review C, 1988, 37, 215-223.	1.1	9
66	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.	1.5	9
67	Measurement of the total and differential cross sections for the reaction $\pi^+ p \rightarrow \pi^+ n$ with the Crystal Ball detector. Physics of Atomic Nuclei, 2003, 66, 110-113.	0.1	9
68	Test of Charge Conjugation Invariance. Physical Review Letters, 2005, 94, 041601.	2.9	9
69	Pion-deuteron breakup reaction at 228 MeV. Physical Review C, 1990, 41, 193-201.	1.1	8
70	Probing the π^+n component of ^3He . Physical Review C, 2000, 62, .	1.1	8
71	Measurement of the $\pi^+p \rightarrow \pi^0 n$ total cross section from threshold to 0.75 GeV/c . Physical Review C, 2003, 67, .	1.1	8
72	Measurement of $\pi^+p \rightarrow \pi^0 n$ in the vicinity of the π^+ threshold. Physical Review C, 2005, 72, .	1.1	8

#	ARTICLE	IF	CITATIONS
73	Search for the forbidden decays $\pi^+ \rightarrow 3\pi^0$ and $\pi^+ \rightarrow \pi^0 \gamma$ and the rare decay $\pi^+ \rightarrow \pi^0 \pi^0 \pi^0$. Physical Review C, 2005, 72, . 1.1		8
74	Search for photoproduction of axionlike particles at GlueX. Physical Review D, 2022, 105, .	1.6	8
75	The reactions in the dip region. Nuclear Physics A, 1993, 553, 709-712.	0.6	7
76	Search for $K^+ \rightarrow \pi^+ \pi^0 \pi^0$ from threshold top $K^+ \rightarrow 750 \text{ MeV}/c$. Physical Review C, 2003, 68, .	1.1	7
77	yscaling in quasifree pion-single-charge exchange. Physical Review C, 2004, 69, .	1.1	7
78	$\text{Li}^6(\pi^+, pp)4\text{He}$.s.reaction at 100 and 165 MeV incident pion energies. Physical Review C, 1995, 51, R2862-R2866.	1.1	6
79	Role of quasideuteron absorption in the $\text{Li}^6(\pi^+, pp)$ reaction at $T_{\pi^+} = 100, 165 \text{ MeV}$. Physical Review C, 1996, 54, 211-221.	1.1	6
80	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.	1.5	5
81	Differential cross sections of the charge-exchange reaction $\pi^+ + \text{Li}^6 \rightarrow \pi^0 + \text{Li}^6$ the momentum range from $103 \text{ MeV}/c$ to $103 \text{ MeV}/c$. Physical Review C, 2009, 80, .		
82	Composite particle emission following negative pion absorption on C^{12} at $T_{\pi^-} = 165 \text{ MeV}$. Physical Review C, 1990, 41, R1339-R1343.	1.1	4
83	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.	0.7	4
84	Development of a novel high quantum efficiency MV $\text{x}\alpha\text{E}\gamma$ detector for image $\alpha\text{E}\gamma$ guided radiotherapy: A feasibility study. Medical Physics, 2020, 47, 152-163.	1.6	4
85	Measurement of the photon beam asymmetry in $\pi^+ \rightarrow \pi^0 \gamma$ at $E_{\pi^+} = 8.5 \text{ GeV}$. Physical Review C, 2020, 101, .	1.1	4
86	Measurement of beam asymmetry for $\pi^+ + \text{Li}^6 \rightarrow \pi^0 + \text{Li}^6$ photoproduction on the proton at 1.1 GeV widt. Physical Review C, 2021, 103, .	1.1	
87	Soil Buffering Capacity Can Be Used To Optimize Biostimulation of Psychrotrophic Hydrocarbon Remediation. Environmental Science & Technology, 2021, 55, 9864-9875.	4.6	4
88	$\text{Li}^7(\pi^+, \pi^0)\text{Li}^*$ at incident proton energies of 250, 354, and 489 MeV. Physical Review C, 1987, 36, 2683-2686.	1.1	3
89	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.	0.6	3
90	Evidence for a deep scalar field from π^0 mass modification in ^3He . Physical Review C, 1999, 59, R1864-R1868.	1.1	3

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91	Virtual Compton scattering and neutral pion electroproduction in the resonance region up to the deep inelastic region at backward angles. <i>Physical Review C</i> , 2009, 79, .	1.1	3
92	A study of the reaction at 60, 80, 100 and 140 MeV incident pion beam energies. <i>Nuclear Physics A</i> , 1986, 456, 629-643.	0.6	2
93	A GEANT extension for polarized neutron-proton scattering. <i>Computer Physics Communications</i> , 1993, 74, 375-380.	3.0	2
94	Analytical method for polarimeter design optimization. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 430, 110-126.	0.7	2
95	Rare Decays of the $\hat{1}$ -Meson. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	2
96	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.	0.7	2
97	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.	0.7	2
98	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.	1.2	2
99	Spin-transfer measurements of the $\hat{1}$ -preaction at energies spanning the $\hat{1}$ -resonance. <i>Physical Review C</i> , 1997, 55, 19-41.	1.1	1
100	Three- and four-nucleon mechanisms in pion absorption. <i>Physical Review C</i> , 2000, 61, .	1.1	1
101	Electron-Induced Neutron Knockout from H^4e . <i>Physical Review Letters</i> , 2002, 89, 172501.	2.9	1
102	Operational performance of the Hall A mirror aerogel Cherenkov counter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 487, 346-352.	0.7	1
103	Helicity signatures in subthreshold $\hat{0}$ production on nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 528, 65-72.	1.5	1
104	The $(\hat{1}^+,pd)$ and $(\hat{1}^+,dd)$ reactions on light nuclei at 100 and 165 MeV incident pion energies. <i>Nuclear Physics A</i> , 2002, 705, 367-395.	0.6	1
105	Measurement of the total cross section of the reaction $K^+p \rightarrow \hat{1}^0$ between 514 and 750 MeV/c. <i>Physical Review C</i> , 2009, 79, .	1.1	1
106	Plant-Specific Modular PET: Data Processing with CASToR and Performance Evaluation. , 2018, , .		1
107	$\frac{d\sigma}{d\Omega}(\hat{1}^+p \rightarrow \hat{1}^0)$ Publisher's Note: Measurement of $\frac{d\sigma}{d\Omega}(\hat{1}^+p \rightarrow \hat{1}^0)$ between 514 and 750 MeV/c. <i>Physical Review C</i> , 2009, 80, .	1.1	0
108	Measurement of K^+p radiative capture to $\hat{1}^0$ and $\hat{1}^0$ for K^+p between 514 and 750 MeV/c. <i>Physical Review C</i> , 2010, 82, .	1.1	0

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109	Numerical investigation of a transformable modular PET system: Consideration of point-spread functions, module arrangements, and operation protocols. AIP Conference Proceedings, 2019, , .	0.3	0
110	POLARIZATION MEASUREMENTS IN PION DEUTERON BREAKUP AND ABSORPTION. Journal De Physique Colloque, 1990, 51, C6-383-C6-386.	0.2	0