Zisis Papandreou

List of Publications by Year
in descending order

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110 papers	4,226 citations	172457 29 h-index	110387 64 g-index
110 all docs	110 docs citations	110 times ranked	1392 citing authors

#	Article	IF	Citations
1	GEp/GMpRatio by Polarization Transfer ineâ†'pâ†'epâ†'. Physical Review Letters, 2000, 84, 1398-1402.	7.8	665
2	Measurement ofGEp/GMpineâ†'pâ†'epâ†'toQ2=5.6GeV2. Physical Review Letters, 2002, 88, 092301.	7.8	588
3	Proton elastic form factor ratios toQ2=3.5GeV2by polarization transfer. Physical Review C, 2005, 71, .	2.9	313
4	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
5	Measurement ofKâ^'pâ†'Î·Î›near threshold. Physical Review C, 2001, 64, .	2.9	190
6	Measurement of the Neutron Magnetic Form Factor. Physical Review Letters, 1995, 75, 21-24.	7.8	139
7	First Measurement of Near-Threshold <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>J</mml:mi><mml:mo stretchy="false">/</mml:mo><mml:mi>Ï^</mml:mi></mml:math> Exclusive Photoproduction off the Proton. Physical Review Letters, 2019, 123, 072001.	7.8	125
8	Publisher's Note: Proton elastic form factor ratios toQ2=3.5GeV2by polarization transfer [Phys. Rev. C 71, 055202 (2005)]. Physical Review C, 2005, 71, .	2.9	112
9	Kâ^'pâ†'Ï€0Ï€0Î£0atpKâ^'=514â€"750MeVâ^•cand comparison with otherÏ€0Ï€0production. Physical Review C, 2004, 70, .	2.9	91
10	Measurements of the Deuteron Elastic Structure FunctionA(Q2)for0.7â‰¤Q2â‰¤6.0(GeV/c)2at Jefferson Laboratory. Physical Review Letters, 1999, 82, 1374-1378.	7.8	90
11	Q2Evolution of the Generalized Gerasimov-Drell-Hearn Integral for the Neutron using aH3eTarget. Physical Review Letters, 2002, 89, 242301.	7.8	73
12	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
13	Q2Evolution of the Neutron Spin Structure Moments using aHe3Target. Physical Review Letters, 2004, 92, 022301.	7.8	68
14	Measurement ofÏ€0Ï€0Production in the Nuclear Medium byÏ€â^'Interactions at0.408GeV/c. Physical Review Letters, 2000, 85, 5539-5542.	7.8	67
15	Dynamical Relativistic Effects in Quasielastic1p-Shell Proton Knockout fromO16. Physical Review Letters, 2000, 84, 3265-3269.	7.8	66
16	Determination of the Quadratic Slope Parameter inÎ·â†'3Ï€0Decay. Physical Review Letters, 2001, 87, 192001.	7.8	57
17	Evidence forÏ0Mass Modification in the3He(Î³,Ï0)ppnReaction. Physical Review Letters, 1998, 80, 241-244.	7.8	55
18	Measurement ofÏ€â^'pâ†'Ï€0Ï€0nfrom threshold topÏ€â^'=750MeVâ^•c. Physical Review C, 2004, 69, .	2.9	53

#	Article	IF	Citations
19	Polarization transfer in the16O(eâ†',eâ€²pâ†')15Nreaction. Physical Review C, 2000, 62, .	2.9	49
20	Measurement of the beam asymmetry Î£ for Ï€0 and Î· photoproduction on the proton at EÎ³=9 GeV. Physical Review C, 2017, 95, .	2.9	49
21	Measurement ofÏ€â^'pâ†'Î·nfrom threshold topÏ€â^'=747MeV/c. Physical Review C, 2005, 72, .	2.9	47
22	First results from the GlueX experiment. AIP Conference Proceedings, 2016, , .	0.4	40
23	The GlueX beamline and detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 987, 164807.	1.6	37
24	Short-Range Nucleon-Nucleon Correlations Investigated with the ReactionC12(e,eâ€²pp). Physical Review Letters, 1995, 74, 1712-1715.	7.8	35
25	Measurement of the Generalized Polarizabilities of the Proton in Virtual Compton Scattering atQ2=0.92and1.76â€‰â€‰GeV2. Physical Review Letters, 2004, 93, 122001.	7.8	33
26	Polarization transfer in theH2(eâ†',eâ€²pâ†')nreaction up toQ2=1.61(GeV/c)2. Physical Review C, 2006, 73, .	2.9	32
27	Measurement of the Generalized Forward Spin Polarizabilities of the Neutron. Physical Review Letters, 2004, 93, 152301.	7.8	31
28	ReactionKâ^'pâ†'Ï€0Ï€0Î›frompKâ^'=514to750MeVâ^•c. Physical Review C, 2004, 69, .	2.9	31
29	Dynamics of the quasielasticO16(e,eâ€²p)reaction atQ2â‰ˆ0.8(GeVâ^•c)2. Physical Review C, 2004, 70, .	2.9	30
30	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
31	In-mediumÏ0spectral function study via theH2,He3,C12(Î³,Ï€+Ï€â^')reaction. Physical Review C, 2003, 68, .	2.9	25
32	Backward electroproduction ofÏ€0mesons on protons in the region of nucleon resonances at four momentum transfer squaredQ2=1.0GeV2. Physical Review C, 2004, 69, .	2.9	25
33	Measurement of inverse pion photoproduction at energies spanning theN(1440)resonance. Physical Review C, 2004, 70, .	2.9	23
34	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
35	Measurement of the invariant-mass spectrum for the two photons from the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î·</mml:mi><mml:mo>â†'</mml:mo><mml:msup><mml:mi>Ï€</mml:mi><mml:mrow><mml:mn	2.9	22
36	Measurement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>Ï€</mml:mi><mml:mrow><mml:mn>0</mml:mn></mml:mrow></mml:msup><mml:mo>→</mml:mo><mml:mn>2</mml:mn><mml:mi>γ</mml:mi></mml:mrow></mml:math>in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>K</mml:mi><mml:mrow><mml:mo>Â¯</mml:mo></mml:mrow></mml:msup><mml:mo>→</mml:mo><mml:mi>Ï€</mml:mi><mml:mi>Ï€</mml:mi><mml:mi>γ</mml:mi></mml:mrow></mml:math>decay. Physical Review C, 2009, 80, .	2.9	22

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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.	1.6	22
38	Two-nucleon knock-out investigated with the semi-exclusive 12C(e, eâ€²p) reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 344, 79-84.	4.1	21
39	Differential cross section of the charge-exchange reactionÏ€âˆ’pâ†’Ï€0nin the momentum range from 148 to323MeVâ•c. Physical Review C, 2004, 69, .	2.9	21
40	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts></mml:math>Spin-Dependent Cross Sections and Sum Rules. Physical Review Letters, 2008, 101, 022303.	7.8	21
41	Multinucleon pion absorption in theHe4(Ï€+,ppp)nreaction. Physical Review C, 1991, 43, 1553-1571.	2.9	20
42	Probing theÏ0Mass Modification in the Subthreshold Region on3He. Physical Review Letters, 1998, 80, 5285-5288.	7.8	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.	1.6	19
44	Dynamics of the16O(e,eâ€²p)Reaction at High Missing Energies. Physical Review Letters, 2001, 86, 5670-5674.	7.8	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.	1.6	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.	1.6	17
47	Measurement of theKâˆ’pâ†’Î£0Ï€0reaction between 514 and 750 MeV/c. Physical Review C, 2008, 77, .	2.9	17
48	Properties of theÎ›(1670)12âˆ’Resonance. Physical Review Letters, 2001, 88, 012002.	7.8	16
49	Measurement of the branching ratio forÎ·â†’Ï€0Î³Î³decay. Physical Review C, 2005, 72, .	2.9	16
50	Search for theCPForbidden DecayÎ·â†’4Ï€0. Physical Review Letters, 2000, 84, 4802-4805.	7.8	15
51	Virtual Compton scattering and the generalized polarizabilities of the proton at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>Q</mml:mi><mml:mn>2</mml:mn></mml:msup><mml:mo>=</mml:mo><mml:mn>1.76 GeV<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>2</mml:mn></mml:msup></mml:math>. Physical Review C, 2012, 86, .	2.9	15
52	Energy dependence of theC12(p,Ï€+)13C/emph>reaction in the region of theÎ”1232resonance. Physical Review C, 1987, 36, 1058-1065.	2.9	13
53	Multi-nucleon pion absorption in the 4He(Ï€+, ppp)n reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 233, 281-285.	4.1	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.	1.6	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.	1.4	12
56	Dynamics of theÏ€âˆ’pâ†’Ï€0Ï€0nReaction forpÏ€âˆ’<750â€‰â€‰MeV/c. Physical Review Letters, 2003, 91, 102301.	7.8	12
57	Beam asymmetry <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Î£</mml:mi></mml:math> for the photoproduction of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î·</mml:mi></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>Î·</mml:mi><mml:mo>â€²</mml:mo></mml:msup></m mesons at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>E</mml:mi><mml:mi>Î³</mml:mi></mml:ms	2.9	12
58	Bruinset al.Reply:. Physical Review Letters, 1997, 79, 5187-5187.	7.8	11
59	SubthresholdÏ0photoproduction on3He. Physical Review C, 1999, 60, .	2.9	11
60	Does the Î£(1580)32âˆ’ resonance exist?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 588, 29-34.	4.1	11
61	Relative branching ratio of the Î·â†’Ï€0Î³Î³ decay channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 589, 14-20.	4.1	11
62	The reaction at 165 MeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 227, 25-29.	4.1	10
63	Spin-transfer measurements of the Ï€dâ†’â†’pâ†’preaction spanning the Î” resonance. Physical Review Letters, 1991, 66, 2573-2576.	7.8	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.	1.6	9
65	O16(pâ†’,Ï€+)17* at incident proton energies of 250, 354, and 489 MeV. Physical Review C, 1988, 37, 215-223.	2.9	9
66	Multi-nucleon pion absorption in the 4He(Ï€+,ppp)n reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 230, 31-35.	4.1	9
67	Measurement of the total and differential cross sections for the reaction Ï€ âˆ’ p â†’ Î·n with the Crystal Ball detector. Physics of Atomic Nuclei, 2003, 66, 110-113.	0.4	9
68	Test of Charge Conjugation Invariance. Physical Review Letters, 2005, 94, 041601.	7.8	9
69	Pion-deuteron breakup reaction at 228 MeV. Physical Review C, 1990, 41, 193-201.	2.9	8
70	Probing theÎ”NNcomponent of3He. Physical Review C, 2000, 62, .	2.9	8
71	Measurement of theÏ€âˆ’pâ†’3Ï€0ntotal cross section from threshold to0.75GeV/c. Physical Review C, 2003, 67, .	2.9	8
72	Measurement ofÏ€âˆ’pâ†’Ï€0nin the vicinity of the Î· threshold. Physical Review C, 2005, 72, .	2.9	8

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73	Search for the forbidden decaysÎ·â†'3Î³andÎ·â†'Ï€0Î³and the rare decayÎ·â†'Ï€0Ï€0Î³Î³. Physical Review C, 2005, 72, .	2.9	8
74	Search for photoproduction of axionlike particles at GlueX. Physical Review D, 2022, 105, .	4.7	8
75	The reactions in the dip region. Nuclear Physics A, 1993, 553, 709-712.	1.5	7
76	Search forKâ^'pâ†'Ï€0Ï€0Ï€0Î›from threshold topKâ^'=750MeV/c. Physical Review C, 2003, 68, .	2.9	7
77	yscaling in quasifree pion-single-charge exchange. Physical Review C, 2004, 69, .	2.9	7
78	Li6(Ï€+,pp)4Heg.s.reaction at 100 and 165 MeV incident pion energies. Physical Review C, 1995, 51, R2862-R2866.	2.9	6
79	Role of quasideuteron absorption in theLi6(Ï€+,pp) reaction atTÏ€+=100, 165 MeV. Physical Review C, 1996, 54, 211-221.	2.9	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.	4.1	5
81	Differential cross sections of the charge-exchange reaction<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>Ï€</mml:mi><mml:mrow><mml:mo>â^'</mml:mo></mml:mrow></mml:msup><mml:mr the momentum range from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>103</mml:mn></mml:mr. Physical Review C, 2009, 80, .	2.9	5
82	Composite particle emission following negative pion absorption onC12atTÏ€â^'=165 MeV. Physical Review C, 1990, 41, R1339-R1343.	2.9	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.	1.6	4
84	Development of a novel high quantum efficiency MV xâ€ray detector for imageâ€guided radiotherapy: A feasibility study. Medical Physics, 2020, 47, 152-163.	3.0	4
85	Measurement of the photon beam asymmetry in Î³âƒ—pâ†'K+Î£0 at EÎ³=8.5 GeV. Physical Review C, 2020, 101, .	2.9	4
86	Measurement of beam asymmetry for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mi>Ï€</mml:mi><mml:mo>â^'</mml:mo></mml: mathvariant="normal">Î”</mml:mi><mml:mrow><mml:mo>+</mml:mo><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:mro photoproduction on the proton at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>E</mml:mi><mml:mi>Î³</mml:mi></mml:ms widt. Physical Review C, 2021, 103, .	2.9	4
87	Soil Buffering Capacity Can Be Used To Optimize Biostimulation of Psychrotrophic Hydrocarbon Remediation. Environmental Science & Technology, 2021, 55, 9864-9875.	10.0	4
88	Li7(pâ†',Ï€+)8Li* at incident proton energies of 250, 354, and 489 MeV. Physical Review C, 1987, 36, 2683-2686.	2.9	3
89	Multinucleon contributions to the 12C(Ï€+, pp) reaction at 100 and 165 MeV incident pion energies. Nuclear Physics A, 1997, 624, 623-654.	1.5	3
90	Evidence for a deep scalar field fromÏ0mass modification in3He. Physical Review C, 1999, 59, R1864-R1868.	2.9	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. Physical Review C, 2009, 79, .	2.9	3
92	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
93	A GEANT extension for polarized neutron-proton scattering. Computer Physics Communications, 1993, 74, 375-380.	7.5	2
94	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
95	Rare Decays of the Î· Meson. AIP Conference Proceedings, 2006, , .	0.4	2
96	Light yield of Kuraray SCSF-78MJ scintillating fibers for the Gluex barrel calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 245-251.	1.6	2
97	Relative gain monitoring of the GlueX calorimeters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 738, 41-49.	1.6	2
98	Methodology for the Determination of the Photon Detection Efficiency of Large-Area Multi-Pixel Photon Counters. IEEE Transactions on Nuclear Science, 2015, 62, 1865-1872.	2.0	2
99	Spin-transfer measurements of theÏ€dâ†'â†'pâ†'preaction at energies spanning theÎ”resonance. Physical Review C, 1997, 55, 19-41.	2.9	1
100	Three- and four-nucleon mechanisms in pion absorption. Physical Review C, 2000, 61, .	2.9	1
101	Electron-Induced Neutron Knockout fromH4e. Physical Review Letters, 2002, 89, 172501.	7.8	1
102	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
103	Helicity signatures in subthreshold Ï0 production on nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 528, 65-72.	4.1	1
104	The (Ï€+,pd) and (Ï€+,dd) reactions on light nuclei at 100 and 165ÂMeV incident pion energies. Nuclear Physics A, 2002, 705, 367-395.	1.5	1
105	Measurement of the total cross section of the reactionKâ^'pâ†'Î£0Î³between 514 and 750 MeV/c. Physical Review C, 2009, 79, .	2.9	1
106	Plant-Specific Modular PET: Data Processing with CASToR and Performance Evaluation. , 2018, , .		1
107	Publisherâ€™s Note: Measurement of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>Ï€</mml:mi><mml:mrow><mml:mn>0</mml:mn></mml:mrow></mml:msup><m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mover accent="true"><mml:mrow><mml:mi>K</mml:mi></mml:mrow><mml:mrow><mml:mo>Â¯</mml:mo></mml:mrow></mml:mover><m Physical Review C, 2009, 80, .	2.9	0
108	Measurement ofKâ^'pradiative capture toÎ³Î›andÎ³Î£0forpKâ^'between 514 and 750ÂMeV/c. Physical Review C, 2010, 82, .	2.9	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, , .	0.4	0
110	POLARIZATION MEASUREMENTS IN PION DEUTERON BREAKUP AND ABSORPTION. Journal De Physique Colloque, 1990, 51, C6-383-C6-386.	0.2	0