

Ian J D Macgregor

List of Publications by Year in descending order

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176
papers

5,564
citations

76326

40
h-index

106344

65
g-index

179
all docs

179
docs citations

179
times ranked

1931
citing authors

#	ARTICLE	IF	CITATIONS
1	Near Threshold Photoproduction of ρ -Mesons off the Proton. <i>Physical Review Letters</i> , 1995, 74, 3736-3739.	7.8	291
2	Momentum sharing in imbalanced Fermi systems. <i>Science</i> , 2014, 346, 614-617.	12.6	233
3	Neutron Skin of ^{208}Pb from Coherent Pion Photoproduction. <i>Physical Review Letters</i> , 2014, 112, 242502.	7.8	180
4	Measurement of the $E2/M1$ Ratio in the $N\Delta^+ \rightarrow \rho^0$ Transition using the reaction $p(\rho^0, p)\rho^0$. <i>Physical Review Letters</i> , 1997, 78, 606-609.	7.8	167
5	Measurement of the electric form factor of the neutron at $Q^2 = 0.3-0.8$ (GeV/c) 2 . <i>European Physical Journal A</i> , 2005, 24, 101-109.	2.5	125
6	Photoproduction of ρ -Mesic ^3He . <i>Physical Review Letters</i> , 2004, 92, 252001.	7.8	113
7	Measurement of the ρ photoproduction line shapes near the ρ resonance. <i>Physical Review C</i> , 2013, 87, 044607.	2.9	113
8	Experimental study of the ρ photoproduction with the Crystal Ball detector at the Mainz Microtron (MAMI-C). <i>Physical Review C</i> , 2010, 82, 044607.	2.9	113
9	Total photoabsorption cross sections for ^1H , ^2H , and ^3He from 200 to 800 MeV. <i>Physical Review C</i> , 1996, 53, 41-49.	2.9	108
10	Experimental study of the ρ photoproduction partial wave. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 86, 044607.	2.9	108
11	Neutral pion photoproduction from the proton near threshold. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 368, 20-25.	4.1	101
12	The Reaction $\rho^0 p \rightarrow \rho^0 p$ and the Magnetic Dipole Moment of the $\rho^+(1232)$ Resonance. <i>Physical Review Letters</i> , 2002, 89, 272001.	7.8	93
13	New results on the ρ resonance and the ρ partial wave. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 658, 94-100.	4.1	92
14	Near threshold photoproduction of ρ -mesons from complex nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 373, 45-50.	4.1	78
15	Differential cross sections and recoil polarizations for the reaction $\rho^0 p \rightarrow \rho^0 p$. <i>Physical Review C</i> , 2010, 82, 044607.	2.9	78
16	In-Medium Modifications of the ρ Interaction in Photon-Induced Reactions. <i>Physical Review Letters</i> , 2002, 89, 222302.	7.8	77
17	Measurement of the ρ meson polarizabilities via the $\rho^0 p \rightarrow \rho^0 p$ reaction. <i>European Physical Journal A</i> , 2005, 23, 113-127.	2.5	75
18	Cross Sections for the Exclusive Photon Electroproduction on the Proton and Generalized Parton Distributions. <i>Physical Review Letters</i> , 2015, 115, 212003.	7.8	73

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19	Differential photoproduction cross sections of the $\Delta(1405)$ and $\Delta(1405)$ in the threshold region. Physical Review Letters, 2013, 88, 232501.	2.9	72
20	Test of Low-Energy Theorems for $H_1(\hat{1}^3\hat{a}^+, \hat{1}\hat{e}^0)H_1$ in the Threshold Region. Physical Review Letters, 2001, 87, 232501.	7.8	71
21	Towards a Resolution of the Proton Form Factor Problem: New Electron and Positron Scattering Data. Physical Review Letters, 2015, 114, 062003.	7.8	71
22	Measurement of the structure function of the nearly free neutron using spectator tagging in inelastic H_1 and H_2 scattering. Physical Review Letters, 2015, 114, 062003.		

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55	Photoproduction of π^0 and π^+ -pairs off the proton from threshold to the second resonance region. European Physical Journal A, 2012, 48, 1.	2.5	34
56	Precision measurements of σ_{tot} of the proton and of the deuteron with 6 GeV electrons. Physical Review C, 2014, 90, .	2.9	33
57	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
58	Measurement of the π^0 and π^+ production. Physical Review C, 2017, 95, .	2.9	32
59	π^0 -meson photoproduction on hydrogen in the neutral decay mode. Physical Review C, 2014, 89, .	2.9	31
60	Insight into the Narrow Structure in π^0 -Photoproduction on the Neutron from Helicity-Dependent Cross Sections. Physical Review Letters, 2016, 117, 132502.	7.8	31
61	Beam-Helicity Asymmetries in Double-Pion Photoproduction off the Proton. Physical Review Letters, 2009, 103, 052002.	7.8	30
62	Precise measurements of beam spin asymmetries in semi-inclusive π^0 production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 197-202.	4.1	30
63	Exclusive π^0 at $\sqrt{s} = 1.92$ GeV with CLAS. Physical Review C, 2014, 90, .	2.9	30
64	Proton photoproduction from ^{12}C . Nuclear Physics A, 1995, 593, 463-487.	1.5	29
65	On photonuclear reaction mechanisms at intermediate energies. Zeitschrift für Physik A, 1996, 355, 1-3.	0.9	29
66	Incoherent Neutral Pion Photoproduction on ^{12}C . Physical Review Letters, 2008, 100, 132301.	7.8	29
67	Publisher's Note: Measurement of the Neutron π^0 Structure Function via Spectator Tagging with CLAS [Phys. Rev. Lett. 108 (2012)]. Physical Review Letters, 2012, 108, .	7.8	29
68	Photoproduction of π^0 off Neutrons in the Nucleon Resonance Region. Physical Review Letters, 2014, 112, 142001.	7.8	29
69			

#	ARTICLE	IF	CITATIONS
91	Quasifree $\bar{\nu}_e$ production studied using the $C^{12}(\bar{\nu}_e, n)B^{11}$ reaction in the $\bar{\nu}_e$ (1232) resonance region. Physical Review C, 1996, 54, R6-R9.	2.9	18
92	The $C^{12}(\bar{\nu}_e, n)$ reaction studied over a wide kinematic range. Physical Review C, 2000, 62, .	2.9	18
93	Deep exclusive $\bar{\nu}_e$ electroproduction off the proton at CLAS. European Physical Journal A, 2013, 49, 1.	2.5	18
94	Measurement of the $C^{12}(\bar{\nu}_e, n)$ reaction with the Crystal Ball/TAPS detectors at the Mainz Microtron. Physical Review C, 2013, 88, .	2.9	18
95	Measurement of the $C^{12}(\bar{\nu}_e, n)$ reaction at 5.5 GeV measured with CLAS. Physical Review C, 2013, 87, .	2.9	18
96	The $^4He(\bar{\nu}_e, 2n)$ reaction measured with tagged photons. Nuclear Physics A, 1993, 559, 347-367.	1.5	17
97	First measurements of the $^{16}O(e, e'pn)^{14}N$ reaction. European Physical Journal A, 2006, 29, 261-270.	2.5	17
98	Cross sections for the $^{16}O(e, e'pn)^{14}N$ reaction. Physical Review C, 2013, 87, .	2.9	17
99	Measurement of the beam-helicity asymmetry A_{TL} in the photoproduction of π^0 pairs off protons and off neutrons. European Physical Journal A, 2014, 50, 1.	2.5	17
100	Photoproduction of π^0 pairs off protons and off neutrons. European Physical Journal A, 2015, 51, 1.	2.5	17
101	The isospin structure of photoproduction of $\bar{\nu}_e$ pairs from the nucleon in the threshold region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 244-250.	4.1	17
102	Determination of the scalar polarizabilities of the proton using beam asymmetry Σ_{TL} in Compton scattering. European Physical Journal A, 2017, 53, 1.	2.5	17
103	$C^{12}(\bar{\nu}_e, p)^{11}B$ cross section from 80 to 157 MeV. Physical Review C, 1995, 51, 1982-1990.	2.9	16
104	Excitation functions for the two-nucleon photoabsorption in 6Li . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 370, 17-21.	4.1	16
105	Threshold $\bar{\nu}_e$ photoproduction on transverse polarised protons at MAMI. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 252-258.	4.1	16
106	Photoproduction of π^0 pairs off nucleons and deuterons. European Physical Journal A, 2016, 52, 1.	2.5	16
107	Exclusive electroproduction at $W < 2$ GeV with CLAS and transversity generalized parton distributions. Physical Review C, 2017, 95, .	2.9	16
108	In-medium modifications of the ρ^0 meson near the production threshold. European Physical Journal A, 2013, 49, 1.	2.5	15

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109	New measurement of the rare decay $\Lambda \rightarrow p \pi^0$ with the Crystal Ball/TAPS detectors at the Mainz Microtron. <i>Physical Review C</i> , 2014, 90, .	2.9	15
110	Publisher's Note: Data analysis techniques, differential cross sections, and spin density matrix elements for the reaction $\Lambda \rightarrow p \pi^0$ [Phys. Rev. C89, 055208 (2014)]. <i>Physical Review C</i> , 2014, 90, .	2.9	15
111	Search for baryon-number and lepton-number violating decays of Λ hyperons using the CLAS detector at Jefferson Laboratory. <i>Physical Review D</i> , 2015, 92, .	4.7	15
112	The angular distribution of the $^{12}\text{C}(\bar{K}^0, p\pi)$ reaction for $E_{\bar{K}^0} = 120 \text{--} 150$ MeV. <i>European Physical Journal A</i> , 1998, 1, 241-244.	2.5	14
113	Strangeness Suppression of $\Lambda \bar{K}^0$ Creation Observed in Exclusive Reactions. <i>Physical Review Letters</i> , 2014, 113, 152004.	7.8	14
114	Target and double spin asymmetries of deeply virtual \bar{K}^0 production with a longitudinally polarized proton target and CLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 768, 168-173.	4.1	14
115	A large solid angle detector for medium energy charged particles. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1987, 262, 347-352.	1.6	13
116	Measurement of the generalized form factors near threshold via $\Lambda \rightarrow p \pi^0$ at high Q^2 . <i>Physical Review C</i> , 2012, 85, .	2.9	12
117	Branching ratio of the electromagnetic decay of the $\Lambda(1385)$. <i>Physical Review D</i> , 2012, 85, .	4.7	11
118	Coherent photoproduction of \bar{K}^0 - and Λ -mesons off ^7Li . <i>European Physical Journal A</i> , 2013, 49, 1.	2.5	11
119	Krusche et al. Reply:. <i>Physical Review Letters</i> , 1995, 75, 3023-3023.	7.8	10
120	Investigation of multiparticle final states in ^{12}C photoreactions. <i>Physical Review C</i> , 1998, 57, 123-128.	2.9	10
121	$\text{C}(\pi, p\pi)$ photon asymmetry for $E_{\pi} = 180 \text{--} 340$ MeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 450, 332-338.	4.1	10
122	Photon asymmetry measurements of $\sigma_{\text{photon}}(\Lambda \rightarrow p \pi^0)$ for $E_{\pi} = 320\text{--}650$ MeV. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	10
123	Neutron propagation in ^{12}C for energies 20 to 45 MeV. <i>Physical Review C</i> , 1993, 47, 2185-2189.	2.9	9
124	The selection and performance of diamond radiators used in coherent bremsstrahlung experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 545, 164-180.	1.6	9
125	Pfeiffer et al. Reply:. <i>Physical Review Letters</i> , 2005, 94, . First measurement of the helicity dependence of ^3He photoreactions in the $\Lambda \rightarrow p \pi^0$	7.8	9
126	overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	4.1	9

#	ARTICLE	IF	CITATIONS
127	First measurement of target and beam-target asymmetries in the $^3\text{He}(\text{p}, \text{p}')^3\text{He}$ reaction. Physical Review C, 2015, 91	2.9	9
128	Investigation of the Exclusive $^3\text{He}(\text{p}, \text{p}')^3\text{He}$ reaction. Physical Review C, 2015, 91	2.9	9
129	Knockout of proton-neutron pairs from ^{16}O with electromagnetic probes. European Physical Journal A, 2010, 43, 137-143.	2.5	8
130	Measurement of the nuclear multiplicity ratio for $^3\text{He}(\text{p}, \text{p}')^3\text{He}$ hadronization at CLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 706, 26-31.	2.9	8
131	Induced polarization of ^3He in kaon electroproduction. Physical Review C, 2014, 90, .	2.9	8
132	Spin-isospin excitation in $^{12}\text{C}(\text{p}, \text{p}')^{12}\text{C}$ using tagged photons. Nuclear Physics A, 1990, 517, 473-482.	1.5	7
133	Differential cross section for the reaction $^2\text{H}(\text{p}, \text{p}')\text{n}$ from 133 to 158 MeV. Nuclear Physics A, 1991, 532, 617-633.	1.5	7
134	Scaling of the $^4\text{He}(\text{p}, \text{p}')\text{t}$ reaction in the $E_{\text{p}} = 80$ to 160 MeV region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 314, 284-288.	4.1	7
135	Compton scattering from ^{12}C using tagged photons in the energy range 65 to 115 MeV. Physical Review C, 2014, 89, .	2.9	7
136	Electron scattering measurements of inelastic M3 transitions. Nuclear Physics A, 1984, 412, 1-12.	1.5	6
137	Measurement of the E2/M1 Ratio in the $^3\text{He}(\text{p}, \text{p}')^3\text{He}$ Transition Using the Reaction $^3\text{He}(\text{p}, \text{p}')^3\text{He}$ [Phys. Rev. Lett. 78, 606 (1997)]. Physical Review Letters, 1997, 79, 4515-4515.	7.8	6
138	Publisher's Note: Exclusive $^3\text{He}(\text{p}, \text{p}')^3\text{He}$ at $^3\text{He}(\text{p}, \text{p}')^3\text{He}$ with CLAS [Phys. Rev. C 90, 025205 (2014)]. Physical Review C, 2014, 90, .	2.9	6
139	Helicity dependence of the $^3\text{He}(\text{p}, \text{p}')^3\text{He}$ reactions in the ^3He (1232) resonance region. European Physical Journal A, 2014, 50, 1.	2.5	6
140	Publisher's Note: Beam asymmetry $^3\text{He}(\text{p}, \text{p}')^3\text{He}$ for $^3\text{He}(\text{p}, \text{p}')^3\text{He}$ on the proton for photon energies from 1.102 to 1.862 GeV [Phys. Rev. C 88, 065203 (2013)]. Physical Review C, 2014, 89, .	2.9	6
141	Determination of the η mass with the Crystal Ball at MAMI-B. European Physical Journal A, 2014, 50, 1.	2.5	6
142	Measurement of target and double-spin asymmetries for the $^3\text{He}(\text{p}, \text{p}')^3\text{He}$ reaction in the nucleon resonance region at low. Physical Review C, 2016, 94, .	2.9	6
143	Investigation of ^3He -medium effects using the $^4\text{He}(\text{p}, \text{p}')^3\text{He}$ and $^4\text{He}(\text{p}, \text{p}')^3\text{He}$ reactions. Physical Review C, 2002, 66, .	2.9	5
144	Three-nucleon mechanisms in photoreactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 553, 25-30.	4.1	5

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163	A helium gas scintillator active target for photoreaction measurements. European Physical Journal A, 2015, 51, 1.	2.5	3
164	$^3\text{He}(e,e\epsilon^2\text{pp})$ and $^3\text{He}(e,e\epsilon^2\text{pn})$ reactions at AmPS and MAMI. Few-Body Systems, 2008, 44, 171-174.	1.5	2
165	Coherent photoproduction of π^+ from ^3He . Physical Review C, 2011, 83, .	2.9	2
166	Upper limits for the photoproduction cross section for the $\Lambda^*(1860)$ pentaquark state off the deuteron. Physical Review C, 2012, 85, .	2.9	2
167	Angular distribution of coherent bremsstrahlung. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 664, 132-139.	1.6	2
168	Near-threshold neutral pion electroproduction at high momentum transfers and generalized form factors. Physical Review C, 2013, 87, .	2.9	2
169	Detection of low energy pions at a tagged photon beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 276, 233-236.	1.6	1
170	Threshold enhancement in π^+ photoproduction from ^2H and ^4He . European Physical Journal A, 2002, 13, 493-499.	2.5	1
171	Comparison of forward and backward pair knockout in ^3He		