

# Vahe Sokhoyan

## List of Publications by Year in descending order

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56  
papers

1,479  
citations

279798

23  
h-index

330143

37  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of Compton Scattering at MAMI for the Extraction of the Electric and Magnetic Polarizabilities of the Proton. <i>Physical Review Letters</i> , 2022, 128, 132503.	7.8	7
2	Measurement of the helicity asymmetry $E$ for the reaction $\gamma p \rightarrow \pi^0 p$ . <i>European Physical Journal A</i> , 2021, 57, 40.	2.5	8
3	Observation of a structure in the $M_{\pi^0}$ invariant mass distribution near 1700 MeV in the $\gamma p \rightarrow \pi^0 p$ reaction. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	5
4	Helicity-Dependent Cross Sections for the Photoproduction of $\pi^0$ Pairs from Nucleons. <i>Physical Review Letters</i> , 2020, 125, 062001.	7.8	4
5	Observation of the Cusp in the New Precise Beam Asymmetry $A_{\text{New}}$ . <i>Physical Review Letters</i> , 2020, 125, 062001.	7.8	15
6	New data on the helicity asymmetry $E$ for the reaction $\gamma p \rightarrow \pi^0 p$ . <i>European Physical Journal A</i> , 2021, 57, 40.	4.1	16
7	Measurement of the beam-helicity asymmetry in photoproduction of $\pi^0$ pairs on carbon, aluminum, and lead. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 802, 135243.	4.1	1
8	Experimental study of the $\gamma p \rightarrow K^0 \Sigma^+$ , $\gamma n \rightarrow K^0 \Lambda$ , and $\gamma n \rightarrow K^0 \Sigma^0$ reactions at the Mainz Microtron. <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	15
9	Cross section for $\pi^0$ measured at the Mainz A2 experiment. <i>Physical Review C</i> , 2019, 100, .	2.9	18
10	Deuteron photodisintegration by polarized photons in the region of the $\Delta(1232)$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 789, 7-12.	4.1	14
11	The $\Sigma^+$ -carbon potential at low meson momenta. <i>European Physical Journal A</i> , 2018, 54, 1.	2.5	13
12	$N^*$ Photoexcitation Results from Mainz. <i>Few-Body Systems</i> , 2018, 59, 1.	1.5	2
13	Measurement of the decay $\Gamma(\pi^0 \rightarrow \gamma \gamma)$ at MAMI. <i>Physical Review D</i> , 2018, 98, .	2.9	13
14	First measurement of helicity-dependent cross sections in $\pi^0$ photoproduction from quasi-free nucleons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 786, 305-312.	4.1	9
15	High-statistics measurement of the $\pi^0$ decay at the Mainz Microtron. <i>Physical Review C</i> , 2018, 97, .	2.9	9
16	Photoproduction of $\pi^0$ mesons off protons and neutrons in the second and third nucleon resonance regions. <i>Physical Review C</i> , 2018, 97, .	2.9	9
17	Experimental study of the $\pi^0$ reaction with the A2 setup at the Mainz Microtron. <i>Physical Review C</i> , 2018, 97, .	2.9	9
18	Double-polarization observable $G$ in neutral-pion photoproduction off the proton. <i>European Physical Journal A</i> , 2017, 53, 1.	2.5	13

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19	First measurement of the polarization observable E and helicity-dependent cross sections in single $\tilde{\epsilon}0$ photoproduction from quasi-free nucleons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 523-531.	4.1	20
20	Photoproduction of $\eta$ mesons from the neutron: Cross sections and double polarization observable E. European Physical Journal A, 2017, 53, 1.	2.5	15
21	Study of $\tilde{\epsilon}$ and $\tilde{\epsilon}$ photoproduction at MAMI. Physical Review Letters, 2017, 118, 212001.	7.8	46
22	Helicity-dependent cross sections and double-polarization observable E in $\tilde{\epsilon}$ photoproduction from quasifree protons and neutrons. Physical Review C, 2017, 95, .	2.9	20
23	Measurement of the Dalitz decay at the Mainz Microtron. Physical Review C, 2017, 95, .	2.9	32
24	Measurement of the and $\tilde{\epsilon}$ photoproduction. Physical Review C, 2017, 95, .	2.9	32
25	Determination of the scalar polarizabilities of the proton using beam asymmetry $\Sigma_3$ in Compton scattering. European Physical Journal A, 2017, 53, 1.	2.5	17
26	Momentum dependence of the imaginary part of the $\omega$ - and $\eta'$ -nucleus optical potential. European Physical Journal A, 2016, 52, 1.	2.5	24
27	Insight into the Narrow Structure in $\tilde{\epsilon}$ -Photoproduction on the Neutron from Helicity-Dependent Cross Sections. Physical Review Letters, 2016, 117, 132502.	7.8	31
28	Photon asymmetry measurements of $\overrightarrow{\gamma}p \rightarrow \pi^0 p$ at $\sqrt{s} = 320$ -650 MeV. European Physical Journal A, 2016, 52, 1.	2.5	10
29	Measurement of double polarisation asymmetries in $\tilde{\epsilon}$ -photoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 453-458.	4.1	11
30	Threshold $\tilde{\epsilon}0$ 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
31	Measurement of $\tilde{\epsilon}$ on the proton at MAMI C. Physical Review C, 2015, 92, .	4.1	27
32	The polarization observables T, P, and H and their impact on $\tilde{\epsilon}$ photoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 212-220.	4.1	27
33	Photoproduction of $\tilde{\epsilon}$ mesons off the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 407-413.	4.1	22
34	A new measurement of the neutron detection efficiency for the NaI Crystal Ball detector. Journal of Instrumentation, 2015, 10, T04001-T04001.	1.2	5
35	Three-Body Nature of $\tilde{\epsilon}$ Resonances from Sequential Decay Chains. Physical Review Letters, 2015, 114, 091803.	7.8	25

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37	High-statistics study of the reaction $\hat{I}^3p \hat{\alpha}^+ p \hat{I} \in \mathbb{O}$ . European Physical Journal A, 2015, 51, 1.	2.5	63
38	Measurement of polarisation observables in $K^0 \hat{I}^+ +$ photoproduction off the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 268-273.	4.1	10
39	First Measurement of the Helicity Asymmetry for $\hat{I}^3p \hat{\alpha}^+ p \hat{I} \in \mathbb{O}$ in the Resonance Region. Physical Review Letters, 2014, 112, 012003.	7.8	50
40	High statistics study of the reaction $\hat{I}^3p \hat{\alpha}^+ p \hat{I} \in \mathbb{O}$ . European Physical Journal A, 2014, 50, 1.	2.5	87
41	$\langle \text{Helicity} \rangle = \frac{1}{2} \frac{d\sigma(\hat{I}^3p \hat{\alpha}^+ p \hat{I} \in \mathbb{O})}{d\Omega} - \frac{1}{2} \frac{d\sigma(\hat{I}^3p \hat{\alpha}^+ p \hat{I} \in \mathbb{O})}{d\Omega}$	7.8	26
42	Thiel $\langle i \rangle \hat{\alpha} \langle i \rangle$ Reply. Physical Review Letters, 2013, 110, 169102.	7.8	3
43	Measurement of the polarization observables $I_s$ and $I_c$ in the reaction $\hat{I}^3p \hat{\alpha}^+ p \hat{I} \in \mathbb{O}$ with the CBE, 2012, , .		3
44	Well-Established Nucleon Resonances Revisited by Double-Polarization Measurements. Physical Review Letters, 2012, 109, 102001.	7.8	62
45	Anomaly in the $\langle \text{Helicity} \rangle$ photoproduction cross section off the proton at the $\langle \text{Helicity} \rangle$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 180-185.	4.1	43
46	Photoproduction of $\eta'$ -mesons off the deuteron. European Physical Journal A, 2011, 47, 1.	2.5	37
47	Quasi-free photoproduction of $\hat{I}$ -mesons off the deuteron. European Physical Journal A, 2011, 47, 1.	2.5	68
48	Photoproduction of neutral pions off protons. Physical Review C, 2011, 84, .	2.9	23
49	Photoproduction of meson pairs: First measurement of the polarization observable $\langle \text{Helicity} \rangle$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 687, 11-15.	4.1	38
50	Measurement of the beam asymmetry $\langle \text{Helicity} \rangle$ in the forward direction for $\hat{I}^3p \hat{\alpha}^+ p \hat{I} \in \mathbb{O}$ . Physical Review C, 2010, 81, .	2.9	30
51	Photoproduction of $\hat{I}$ -mesons off protons. Physical Review C, 2009, 80, .	2.9	111
52	$K^0 \hat{I}^+$ and $K^0 \hat{I}^+$ photoproduction off the proton. European Physical Journal A, 2008, 35, 333-342.	2.5	43
53	Photoproduction of $\hat{I}$ -mesons off nuclei for $\hat{I}^3p \hat{\alpha}^+ p \hat{I} \in \mathbb{O}$ 2.2 GeV. European Physical Journal A, 2008, 38, 195-207.	2.5	29
54	Measurement of the beam asymmetry $\hat{I}^3p \hat{\alpha}^+ p \hat{I} \in \mathbb{O}$ production off the proton with the CBELSA/TAPS experiment $\hat{\alpha}^+$ . European Physical Journal A, 2008, 35, 291-293.	2.5	36

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55	Beam asymmetries in near-threshold $\pi^0$ photoproduction off the proton. Physical Review D, 2008, 78, .	4.7	25
56	Quasifree Photoproduction of $\pi$ -Mesons off the Neutron. Physical Review Letters, 2008, 100, 252002.	7.8	96