

Hyun-Chul Kim

List of Publications by Year in descending order

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167
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times ranked

590
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromagnetic form factors of the SU(3) octet baryons in the semibosonized SU(3) Nambu–Jona-Lasinio model. Physical Review D, 1996, 53, 4013-4029.	1.6	60
2	Possibility of the existence of charmed exotica. Physical Review D, 2017, 96, .	1.6	53
3	Magnetic moments of the SU(3) decuplet baryons in the chiral quark-soliton model. Physical Review D, 1998, 57, 2859-2870.	1.6	50
4	Energy–momentum tensor form factors of the nucleon in nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 625-631.	1.5	49
5	Contribution of higher nucleon resonances to $K^*\pi$ photoproduction. Physical Review D, 2011, 84, .	1.6	47
6	$\hat{1}(1520, 3/2^-)$ -photoproduction reaction via $\hat{1}^3N_1^*K^*(1520)$. Physical Review D, 2005, 71, .	1.6	45
7	Tensor charges of the nucleon in the SU(3) chiral quark soliton model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 387, 577-581.	1.5	43
8	Leading-twist pion and kaon distribution amplitudes from the QCD instanton vacuum. Physical Review D, 2006, 74, .	1.6	42
9	Nucleon tensor charges in the SU(2) chiral quark-soliton model. Physical Review D, 1996, 53, R4715-R4718.	1.6	41
10	Strange form factors in the context of SAMPLE, HAPPEX, and A4 experiments. Physical Review D, 2001, 65, A new  overflow="scroll" style="display: inline-block; vertical-align: middle;"/> xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" 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/common/struct-bib/dtd" xmlns:sc="http://www.elsevier.com/	1.6	41
11	Magnetic susceptibility of the QCD vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 608, 95-106.	1.5	41
12	Magnetic susceptibility of the QCD vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 608, 95-106.	1.5	34
13	Exotic and nonexotic magnetic transitions in the context of the SELEX and GRAAL experiments. Physical Review D, 2005, 71, .	1.6	34
14	Strong decays of exotic and nonexotic heavy baryons in the chiral quark-soliton model. Physical Review D, 2017, 96, .	1.6	34
15	Leading-twist pion and kaon distribution amplitudes in the gauge-invariant nonlocal chiral quark model from the instanton vacuum. Physical Review D, 2006, 74, .	1.6	33
16	Axial-vector form factors of the nucleon within the chiral quark-soliton model and their strange components. Physical Review D, 2005, 72, .	1.6	32
17	Pion mean fields and heavy baryons. Physical Review D, 2016, 94, .	1.6	32
18	Magnetic moments of exotic pentaquarks in the chiral quark–soliton model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 585, 99-105.	1.5	31

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19	Â photoproduction with coupled-channel effects. Progress of Theoretical and Experimental Physics, 2014, 2014, 23D03-0.	1.8	31
20	Hyperon semileptonic decay constants with flavor SU(3) symmetry breaking. Physical Review C, 2015, 92, .	1.1	31
21	Magnetic moments of the lowest-lying singly heavy baryons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 601-606.	1.5	31
22	Octet, decuplet, and antidecuplet magnetic moments in the chiral quark soliton model reexamined. Physical Review D, 2004, 70, .	1.6	30
23	In-medium modified energy-momentum tensor form factors of the nucleon within the framework of a chiral quark-soliton model. Physical Review D, 2014, 89, .	1.6	30
24	Electromagnetic form factors of singly heavy baryons in the self-consistent SU(3) chiral quark-soliton model. Physical Review D, 2018, 97, .	1.6	30
25	Electromagnetic form factors of the pion and kaon from the instanton vacuum. Physical Review D, 2008, 77, .	1.6	26
26	Tensor charges and form factors of SU(3) baryons in the self-consistent SU(3) chiral quark-soliton model. Physical Review D, 2010, 82, .	1.6	26
27	Flavor structure of the octet magnetic moments. Physical Review D, 1998, 58, .	1.6	24
28	Energy-momentum tensor form factors of the nucleon within a chiral quark-soliton model. Journal of Physics C: Nuclear and Particle Physics, 2014, 41, 055107.	1.4	24
29	1/N corrections to the magnetic susceptibility of the QCD vacuum. Physical Review D, 2007, 76, .	1.6	23
30	Mass spectra of singly heavy baryons in a self-consistent chiral quark-soliton model. Physical Review D, 2018, 98, .	1.6	23
31	Pentaquarks: Review on models and solitonic calculations of antidecuplet magnetic moments. Progress in Particle and Nuclear Physics, 2005, 55, 350-373.	5.6	21
32	Parity-violating asymmetries in elastic π^+p scattering in the chiral quark-soliton model: Comparison with the A4, G0, HAPPEX and SAMPLE experiments. Physical Review D, 2006, 74, .	1.6	21
33	Twist-3 pion and kaon distribution amplitudes from the instanton vacuum with flavor SU(3) symmetry breaking. Physical Review D, 2006, 74, .	1.6	21
34	The electric dipole moment of the nucleons in holographic QCD. Journal of High Energy Physics, 2007, 2007, 036-036.	1.6	20
35	Hyperon semileptonic decays and quark spin content of the proton. Physical Review D, 2000, 61, .	1.6	19
36	Spin structure of the pion from the instanton vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 305-312.	1.5	19

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55	Semileptonic decay constants of octet baryons in the chiral quark-soliton model. Physical Review D, 1998, 57, 299-307.	1.6	15
56	Heavy Baryons in a Pion Mean-Field Approach: A Brief Review. Journal of the Korean Physical Society, 2018, 73, 165-178.	0.3	15
57	Test of the reaction mechanism for $\hat{p}^3N\hat{\Lambda}^*(1520)$ using the polarized photon. Physical Review D, 2007, 75, .	1.6	14
58	Isospin mass differences of singly heavy baryons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135619.	1.5	14
59	Quark spin content of the proton, hyperon semileptonic decays, and the decay width of the \bar{p}^+ -pentaquark. Physical Review D, 2007, 75, .	1.6	13
60	Stability of the pion and the pattern of chiral symmetry breaking. Physical Review D, 2014, 90, .	1.6	13
61	Meson baryon coupling constants of the SU(3) baryons with flavor SU(3) symmetry breaking. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 434-440.	1.5	13
62	Production of hidden-charm strange pentaquarks from the \bar{p}^+ pentaquark. Physical Review D, 2014, 90, .	1.6	13
63	Strange vector form factors of the nucleon in the SU(3) chiral quark-soliton model with the proper kaon cloud. Nuclear Physics A, 1997, 616, 606-624.	0.6	12
64	Kaon semileptonic decay (K_{l3}) form factors from the instanton vacuum. Physical Review D, 2007, 75, .	1.6	12
65	Vector transition form factors of the Λ and Σ in the chiral quark-soliton model. Nuclear Physics A, 2008, 811, 353-377.	0.6	12
66	Axial-vector transitions and strong decays of the baryon antidecuplet in the self-consistent SU(3) chiral quark-soliton model. Physical Review D, 2008, 78, .	1.6	12
67	Electromagnetic transitions of the singly charmed baryons with spin $\frac{3}{2}$ and $\frac{1}{2}$. Physical Review D, 2021, 103, .	1.6	12
68	In-medium modified mesonic Lagrangian and properties of nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 442-447.	1.5	11
69	Instanton effects on the heavy-quark static potential. Chinese Physics C, 2017, 41, 083102.	1.5	11
70	Energy-momentum tensor of the nucleon on the light front: Abel tomography case. Physical Review D, 2021, 104, .	1.6	11
71	Production of the Λ_c^+ pentaquark. Physical Review D, 2001, 64, 054004.	1.5	10
72	Pion weak decay constant at finite density from the instanton vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 666, 324-331.	1.5	10

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73	Modification of generalized vector form factors and transverse charge densities of the nucleon in nuclear matter. <i>Physical Review D</i> , 2016, 93, .	1.6	10
74	$K0^*$ photoproduction off the neutron with nucleon resonances. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 786, 156-164.	1.5	10
75	Improved pion mean fields and masses of singly heavy baryons. <i>Progress of Theoretical and Experimental Physics</i> , 2020, 2020, .	1.8	10
76	Axial-vector form factors of the baryon decuplet with flavor SU(3) symmetry breaking. <i>Physical Review D</i> , 2020, 102, .	1.6	10
77	Top quark soliton and its anomalous chromomagnetic moment. <i>Physical Review D</i> , 1996, 54, 3598-3607.	1.6	9
78	Effective weak chiral Lagrangian to (p) in the chiral quark model. <i>Nuclear Physics B</i> , 1999, 562, 213-236.	0.9	9
79	Mesons and nucleons from holographic QCD in a unified approach. <i>Journal of High Energy Physics</i> , 2009, 2009, 034-034.	1.6	9
80	Transverse charge distributions of the nucleon and their Abel images. <i>Physical Review D</i> , 2021, 104, .	1.6	9
81	Effective chiral Lagrangian in the chiral limit from the instanton vacuum. <i>Physical Review D</i> , 2004, 69, .	1.6	8
82	Generalized form factors and spin structures of the kaon. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 707, 546-552.	1.5	8
83	$\langle \hat{K} \rangle$	1.6	8
84	Photoproduction from the $K^*(1405)$ Reaction. <i>Journal of the Korean Physical Society</i> , 2011, 59, 2676-2683.	0.3	8
85	$\hat{S}=1,2$ effective weak chiral Lagrangian from the instanton vacuum. <i>Nuclear Physics A</i> , 2002, 699, 541-561.	0.6	7
86	Electric quadrupole form factors of singly heavy baryons with spin 3/2. <i>Progress of Theoretical and Experimental Physics</i> , 2021, 2021, .	1.8	7
87	Electromagnetic transition form factors, E2/M1 and C2/M1 ratios of the baryon decuplet. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	7
88	Parity-violating \hat{K}^* coupling constant in the chiral quark soliton model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 713, 439-446.	1.5	6
89	Nucleon and \hat{K}^* isobar in a strong magnetic field. <i>Physical Review D</i> , 2019, 99, .	1.6	6
90	Effects of nucleon resonances on \hat{K}^* photoproduction off the neutron reexamined. <i>Physical Review D</i> , 2019, 99, .	1.6	6

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91	Production of the pentaquark $\hat{\Gamma}^+$ in np scattering. Physical Review D, 2004, 70, .	1.6	5
92	Transverse strange quark spin structure of the nucleon. Physical Review D, 2012, 85, .	1.6	5
93	Mass splittings of the baryon decuplet and antidecuplet with second-order flavor symmetry breakings within a chiral soliton model. Journal of the Korean Physical Society, 2012, 61, 1956-1964.	0.3	5
94	Production and decay of charmed baryons. Nuclear Physics A, 2016, 954, 341-351.	0.6	5
95	Instanton effects on charmonium states. Physical Review D, 2018, 98, .	1.6	5
96	Light-cone distribution amplitudes of the nucleon and $\hat{\Lambda}^+$ baryon. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5
97	$\hat{\Gamma}^+ S = 0$ effective weak chiral Lagrangian from the instanton vacuum. European Physical Journal C, 2006, 45, 451-457.	1.4	4
98	Transverse charge densities in the nucleon in nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 375-381.	1.5	4
99	Flavor structure of the nucleon electromagnetic form factors and transverse charge densities in the chiral quark soliton model. Progress of Theoretical and Experimental Physics, 2018, 2018, .	1.8	4
100	Baryonic matter and the medium modification of the baryon masses. Physical Review C, 2021, 103, .	1.1	4
101	Pion mass dependence of the electromagnetic form factors of singly heavy baryons. Progress of Theoretical and Experimental Physics, 2021, 2021, .	1.8	4
102	Withdrawn as duplicate: Structure of the $\hat{\Lambda}^0$ baryon and the kaon cloud. Progress of Theoretical and Experimental Physics, 2022, 2022, .	1.8	4
103	Axial-vector transition form factors of the baryon octet to the baryon decuplet with flavor SU(3) symmetry breaking. Physical Review D, 2022, 105, .	1.6	4
104	Weak $K^+ \rightarrow \pi^0$ generalized form factors and transverse transition quark-spin density from the instanton vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 460-467.	1.5	3
105	Parity-violating \tilde{g}_2^{NN} coupling constant from the flavor-conserving effective weak chiral Lagrangian. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 130-136.	1.5	3
106	Vector and Axial-vector form factors in radiative kaon decay and flavor SU(3) symmetry breaking. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 438-445.	1.5	3
107	Modification of hyperon masses in nuclear matter. Physical Review C, 2019, 99, .	1.1	3
108	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \tilde{f} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \tilde{\kappa} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ coupling constants for the charmed and beauty mesons. Physical Review D, 2020, 102, .	1.6	3

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109	Elusive exotic states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 375, 310-314.	1.5	2
110	Strangeness-conserving effective weak chiral Lagrangian. European Physical Journal A, 2005, 24, 105-105.	1.0	2
111	Pentaquark $\hat{\Sigma}^+$ production via $\hat{\Sigma}^+ N \hat{\Sigma}^+ K \hat{\Sigma}^+ (3/2^{\pm})$. Physical Review C, 2006, 74, .	1.1	2
112	Properties of the bound nucleons. EPJ Web of Conferences, 2012, 20, 04005.	0.1	2
113	$\hat{\Sigma}^+$ + baryon, N^* (1685) resonance, and $\hat{\Sigma}^+$ sigma term reexamined within the framework of a chiral soliton model. Progress of Theoretical and Experimental Physics, 2013, 2013, .	1.8	2
114	PHOTOPRODUCTION OF PHI MESON NEAR THE THRESHOLD. International Journal of Modern Physics Conference Series, 2014, 26, 1460055.	0.7	2
115	Pion radiative weak decay from the instanton vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 687-693.	1.5	2
116	Feasibility study of the $K+d \hat{\Sigma}^+ K0pp$ reaction for the $\hat{\Sigma}^+$ pentaquark. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	2
117	Heavy baryon production with an instanton interaction. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	2
118	Weak electricity of the nucleon in the chiral quark-soliton model. Physical Review D, 1997, 55, 5698-5701.	1.6	1
119	Magnetic and Axial-Vector Transitions of the Baryon Antidecuplet. Progress of Theoretical Physics Supplement, 2007, 168, 62-69.	0.2	1
120	VECTOR AND AXIAL-VECTOR STRUCTURES OF THE $\hat{\Sigma}^+$. Modern Physics Letters A, 2008, 23, 2238-2241.	0.5	1
121	MAGNETIC SUSCEPTIBILITY OF THE QCD VACUUM AT FINITE DENSITY. Modern Physics Letters A, 2008, 23, 2360-2363.	0.5	1
122	PION AND KAON STRUCTURES FROM THE INSTANTON VACUUM. Modern Physics Letters A, 2009, 24, 887-890.	0.5	1
123	Photoproduction of $\hat{\Sigma}^+(1540, 1/2^+)$ reexamined with new theoretical information. Physical Review D, 2009, 79, .	1.6	1
124	Hadrons from a hard wall AdS/QCD model. Chinese Physics C, 2010, 34, 1520-1522.	1.5	1
125	A phenomenological description of an incoherent Fermi liquid near optimal doping in high T_c cuprates. Journal of Physics Condensed Matter, 2011, 23, 495701.	0.7	1
126	$\hat{\Sigma}^+ K [sup \hat{\Sigma}^-] \hat{\Sigma}^+(1116)$ photoproduction and nucleon resonances. , 2011, , .		1

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127	Vector and Tensor Coupling Constants of SU(3) Baryons in a Chiral Soliton Model. Few-Body Systems, 2013, 54, 325-328.	0.7	1
128	Photoproduction of the scalar mesons $f_0(500)$ and $f_0(980)$ off the nucleon. Progress of Theoretical and Experimental Physics, 2017, 2017, .	1.8	1
129	New narrow nucleon resonances $N^*(1685)$ and $N^*(1726)$ within the chiral quark-soliton model. Progress of Theoretical and Experimental Physics, 2019, 2019, .	1.8	1
130	Flavor Structure of the Nucleon Electromagnetic form Factors. , 2014, , .		1
131	Strange vector form factors of the nucleon. AIP Conference Proceedings, 2001, , .	0.3	0
132	PION PROPERTIES AT FINITE DENSITY. Modern Physics Letters A, 2009, 24, 891-894.	0.5	0
133	Recent Results for the Baryon Antidecuplet within the Chiral Quark-Soliton Model. Progress of Theoretical Physics Supplement, 2010, 186, 222-227.	0.2	0
134	Hadron Properties in Nuclear Matter and the Phase Structure of a Skyrmonic System. Progress of Theoretical Physics Supplement, 2010, 186, 300-305.	0.2	0
135	A Modified Pion-Rho-Omega Mesonic Lagrangian in Nuclear Matter. Few-Body Systems, 2013, 54, 1067-1070.	0.7	0
136	Energy-Momentum Tensor Form Factors of the Nucleon in Nuclear Matter in the Chiral Soliton Model. Few-Body Systems, 2013, 54, 1083-1086.	0.7	0
137	Contribution of N^* and $\hat{1}^{**}$ Resonances in ${}^{K^*}\Sigma$ (1190) Photoproduction. Few-Body Systems, 2013, 54, 1499-1502.	0.7	0
138	$K^*\hat{1}(1116)$ Photoproduction and Nucleon Resonances. Few-Body Systems, 2013, 54, 307-310.	0.7	0
139	Tensor Form Factors and Transverse Spin Structures of the Nucleon. Few-Body Systems, 2013, 54, 317-320.	0.7	0
140	Pion-Rho Meson Lagrangian in Nuclear Matter. Few-Body Systems, 2013, 54, 465-468.	0.7	0
141	Nuclear Matter Properties from a Chiral Soliton Model. Few-Body Systems, 2013, 54, 517-520.	0.7	0
142	In-medium modified energy-momentum tensor form factors. International Journal of Modern Physics Conference Series, 2014, 29, 1460237.	0.7	0
143	Study of nucleon resonances in the photoproduction $\hat{1}^3p \hat{a}^+ K^* + \hat{1}$. International Journal of Modern Physics Conference Series, 2014, 29, 1460245.	0.7	0
144	Charmed Baryons and Their Interactions. , 2017, , .		0

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145	Mass spectra of heavy mesons with instanton effects. Progress of Theoretical and Experimental Physics, 2018, 2018, .	1.8	0
146	Pion Induced Productions for the Study of Heavy Baryons. Few-Body Systems, 2021, 62, 1.	0.7	0
147	STRANGENESS IN THE NUCLEON in the SU(3) CHIRAL QUARK-SOLITON MODEL. , 2000, , .		0
148	PHOTON AND NUCLEON INDUCED PRODUCTION OF $\hat{\Gamma}^{+}$, 2005, , .		0
149	MAGNETIC MOMENTS OF THE PENTAQUARKS. , 2005, , .		0
150	A new nucleon resonance in $\hat{\Gamma}$ photoproduction. , 2008, , 185-187.		0
151	BARYON ANTIDECUPLET IN THE CHIRAL QUARK-SOLITON MODEL. , 2010, , .		0
152	$\hat{\Gamma}$ -PHOTOPRODUCTION NEAR THE THRETHOLD WITHIN AN EFFECTIVE LAGRANGIAN APPROACH. , 2010, , .		0
153	MESONS AND NUCLEONS FROM HOLOGRAPHIC QCD. , 2010, , .		0
154	Pion Electromagnetic Form Factor and η -meson Mass Shift at Finite Density. Journal of the Korean Physical Society, 2011, 59, 217-223.	0.3	0
155	Electromagnetic Properties of the Nucleon in Nuclear Matter. , 2014, , .		0
156	Internal Structure of the Nucleon in a $\hat{\Gamma}$ Meson Model. , 2014, , .		0
157	Study of Baryon Resonances in the Photoproduction ($\gamma p \rightarrow K^{*}\Sigma$)(1190). , 2014, , .		0
158	Stability of the Pion beyond the Chiral Limit. , 2016, , .		0
159	$K \rightarrow \pi$ Transition Generalized form Factors and Transverse Quark Spin Density from the Instanton Vacuum. , 2016, , .		0
160	Pion Induced Reactions for the Study of Charmed Baryons. , 2016, , .		0
161	Photoproduction of the Scalar Meson $f_0(500)$. , 2016, , .		0
162	$K \rightarrow \pi$ Photoproduction with Nucleon Resonances. , 2019, , .		0

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163	Strange and Charmed Baryon Productions with an Instanton Interaction. , 2019, , .		0
164	Heavy Baryons in a pion mean-field approach. , 2020, , .		0
165	Electromagnetic Properties of Singly Heavy Baryons. Springer Proceedings in Physics, 2020, , 701-703.	0.1	0
166	η Photoproduction and Nucleon Resonances. Springer Proceedings in Physics, 2020, , 615-619.	0.1	0
167	Structure of the Λ_c baryon and the kaon cloud. Progress of Theoretical and Experimental Physics, 2022, 2022, .	1.8	0