

# Hyun-Chul Kim

## List of Publications by Year in descending order

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167  
papers

2,009  
citations

218381

26  
h-index

377514

34  
g-index

169  
all docs

169  
docs citations

169  
times ranked

590  
citing authors



#	ARTICLE	IF	CITATIONS
19	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \tilde{f} \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \tilde{c} \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ coupling constants for the charmed and beauty mesons. Physical Review D, 2020, 102, .	1.6	3
20	Axial-vector form factors of the baryon decuplet with flavor SU(3) symmetry breaking. Physical Review D, 2020, 102, .	1.6	10
21	Electromagnetic transition form factors, E2/M1 and C2/M1 ratios of the baryon decuplet. European Physical Journal C, 2020, 80, 1.	1.4	7
22	Heavy Baryons in a pion mean-field approach. , 2020, , .		0
23	Electromagnetic Properties of Singly Heavy Baryons. Springer Proceedings in Physics, 2020, , 701-703.	0.1	0
24	$\eta$ Photoproduction and Nucleon Resonances. Springer Proceedings in Physics, 2020, , 615-619.	0.1	0
25	Nucleon and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \hat{\Gamma} \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ isobar in a strong magnetic field. Physical Review D, 2019, 99, .	1.6	6
26	Electromagnetic form factors of the baryon decuplet with flavor SU(3) symmetry breaking. European Physical Journal C, 2019, 79, 1.	1.4	16
27	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
28	New narrow nucleon resonances $N^{\ast}(1685)$ and $N^{\ast}(1726)$ within the chiral quark soliton model. Progress of Theoretical and Experimental Physics, 2019, 2019, .	1.8	1
29	Modification of hyperon masses in nuclear matter. Physical Review C, 2019, 99, .	1.1	3
30	Effects of nucleon resonances on $\hat{\Gamma}$ photoproduction off the neutron reexamined. Physical Review D, 2019, 99, .	1.6	6
31	$K0\hat{\Gamma}$ Photoproduction with Nucleon Resonances. , 2019, , .		0
32	Strange and Charmed Baryon Productions with an Instanton Interaction. , 2019, , .		0
33	Mass spectra of heavy mesons with instanton effects. Progress of Theoretical and Experimental Physics, 2018, 2018, .	1.8	0
34	Instanton effects on charmonium states. Physical Review D, 2018, 98, .	1.6	5
35	$K0\hat{\Gamma}$ photoproduction off the neutron with nucleon resonances. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 156-164.	1.5	10
36	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

#	ARTICLE	IF	CITATIONS
37	Mass spectra of singly heavy baryons in a self-consistent chiral quark-soliton model. Physical Review D, 2018, 98, .	1.6	23
38	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
39	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
40	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
41	Heavy Baryons in a Pion Mean-Field Approach: A Brief Review. Journal of the Korean Physical Society, 2018, 73, 165-178.	0.3	15
42	Parity-violating $\tilde{g}_1$ 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
43	Publisher's Note: Possibility of the existence of charmed exotica [Phys. Rev. D <b>96</b> , 014009 (2017)]. Physical Review D, 2017, 96, .	1.6	19
44	Charmed Baryons and Their Interactions. , 2017, , .		0
45	Possibility of the existence of charmed exotica. Physical Review D, 2017, 96, .	1.6	53
46	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
47	Instanton effects on the heavy-quark static potential. Chinese Physics C, 2017, 41, 083102.	1.5	11
48	Strong decays of exotic and nonexotic heavy baryons in the chiral quark-soliton model. Physical Review D, 2017, 96, .	1.6	34
49	Photoproduction of $\Lambda^*(1405)$ with the $N^*$ and the $t$ -channel Regge contributions. Physical Review D, 2017, 96, .	1.6	17
50	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
51	Heavy pentaquark states $P(4380)$ and $P(4450)$ in the $J/\psi$ production induced by pion beams off the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 358-364.	1.5	19
52	$K^0$	1.6	8
53	Modification of generalized vector form factors and transverse charge densities of the nucleon in nuclear matter. Physical Review D, 2016, 93, .	1.6	10
54	Pion mean fields and heavy baryons. Physical Review D, 2016, 94, .	1.6	32

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55	Production and decay of charmed baryons. Nuclear Physics A, 2016, 954, 341-351.	0.6	5
56	Stability of the Pion beyond the Chiral Limit. , 2016, , .		0
57	$K \rightarrow \pi$ Transition Generalized form Factors and Transverse Quark Spin Density from the Instanton Vacuum. , 2016, , .		0
58	Pion Induced Reactions for the Study of Charmed Baryons. , 2016, , .		0
59	Photoproduction of the Scalar Meson $f_0(500)$ . , 2016, , .		0
60	Hyperon semileptonic decay constants with flavor SU(3) symmetry breaking. Physical Review C, 2015, 92, .	1.1	31
61	Production of strange and charmed baryons in pion induced reactions. Physical Review D, 2015, 92, .	1.6	18
62	Weak $K \rightarrow \pi$ 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
63	Stability of the pion and the pattern of chiral symmetry breaking. Physical Review D, 2014, 90, .	1.6	13
64	Energy-momentum tensor form factors of the nucleon within a $\phi$ soliton model. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 055107.	1.4	24
65	$\Lambda$ photoproduction with coupled-channel effects. Progress of Theoretical and Experimental Physics, 2014, 2014, 23D03-0.	1.8	31
66	Effects of $N(2000)5/2^+$ , $N(2060)5/2^-$ , $N(2120)3/2^-$ , and $N(2190)7/2^-$ on $K^* \rightarrow \pi$ photoproduction. Physical Review D, 2014, 90, .	1.6	18
67	In-medium modified energy-momentum tensor form factors of the nucleon within the framework of a $\langle \mathcal{T}_{\mu\nu} \rangle = \langle \mathcal{T}_{\mu\nu} \rangle_{\text{free}} - \langle \mathcal{T}_{\mu\nu} \rangle_{\text{medium}}$ soliton model. Physical Review D, 2014, 89, .	1.6	30
68	In-medium modified energy-momentum tensor form factors. International Journal of Modern Physics Conference Series, 2014, 29, 1460237.	0.7	0
69	Study of nucleon resonances in the photoproduction $\hat{p} \rightarrow \pi^+ K^* \rightarrow \pi^+ \Lambda$ . International Journal of Modern Physics Conference Series, 2014, 29, 1460245.	0.7	0
70	PHOTOPRODUCTION OF PHI MESON NEAR THE THRESHOLD. International Journal of Modern Physics Conference Series, 2014, 26, 1460055.	0.7	2
71	Flavor Structure of the Nucleon Electromagnetic form Factors. , 2014, , .		1
72	Electromagnetic Properties of the Nucleon in Nuclear Matter. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
73	Internal Structure of the Nucleon in a $\rho$ -Meson Model. , 2014, , .		0
74	Study of Baryon Resonances in the Photoproduction ( $\gamma p \rightarrow K^* \Sigma$ )(1190). , 2014, , .		0
75	A Modified Pion-Rho-Omega Mesonic Lagrangian in Nuclear Matter. Few-Body Systems, 2013, 54, 1067-1070.	0.7	0
76	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
77	Contribution of $N^*$ and $\Lambda^*$ Resonances in $K^* \Sigma$ (1190) Photoproduction. Few-Body Systems, 2013, 54, 1499-1502.	0.7	0
78	In-medium modified $\rho$ -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
79	$K^* \Lambda$ (1116) Photoproduction and Nucleon Resonances. Few-Body Systems, 2013, 54, 307-310.	0.7	0
80	Tensor Form Factors and Transverse Spin Structures of the Nucleon. Few-Body Systems, 2013, 54, 317-320.	0.7	0
81	Vector and Tensor Coupling Constants of SU(3) Baryons in a Chiral Soliton Model. Few-Body Systems, 2013, 54, 325-328.	0.7	1
82	Pion- $\rho$ Meson Lagrangian in Nuclear Matter. Few-Body Systems, 2013, 54, 465-468.	0.7	0
83	Nuclear Matter Properties from a Chiral Soliton Model. Few-Body Systems, 2013, 54, 517-520.	0.7	0
84	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
85	$\Lambda^*$ + baryon, $N^*$ (1685) resonance, and $\rho$ sigma term reexamined within the framework of a chiral soliton model. Progress of Theoretical and Experimental Physics, 2013, 2013, .	1.8	2
86	$K^* \Lambda$ photoproduction off the proton target with baryon resonances. Physical Review D, 2013, 88, .	1.6	16
87	Transverse strange quark spin structure of the nucleon. Physical Review D, 2012, 85, .	1.6	5
88	Parity-violating $\rho$ NN coupling constant in the chiral quark soliton model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 439-446.	1.5	6
89	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
90	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

#	ARTICLE	IF	CITATIONS
91	Properties of the bound nucleons. EPJ Web of Conferences, 2012, 20, 04005.	0.1	2
92	Generalized form factors and spin structures of the kaon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 546-552.	1.5	8
93	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
94	Electromagnetic mass differences of SU(3) baryons within a chiral soliton model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 214-218.	1.5	16
95	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
96	Contribution of higher nucleon resonances to $K^* \rightarrow \pi$ photoproduction. Physical Review D, 2011, 84, .	1.6	47
97	Binding energy per nucleon and hadron properties in nuclear matter. Physical Review C, 2011, 83, .	1.1	17
98	$K^*(1405)$ photoproduction and nucleon resonances. , 2011, , .		1
99	$K^*(1405)$ Photoproduction from the $\rho \rightarrow K^* K$ Reaction. Journal of the Korean Physical Society, 2011, 59, 2676-2683.	0.3	8
100	Pion Electromagnetic Form Factor and $\rho$ -meson Mass Shift at Finite Density. Journal of the Korean Physical Society, 2011, 59, 217-223.	0.3	0
101	Recent Results for the Baryon Antidecuplet within the Chiral Quark-Soliton Model. Progress of Theoretical Physics Supplement, 2010, 186, 222-227.	0.2	0
102	Hadron Properties in Nuclear Matter and the Phase Structure of a Skyrmionic System. Progress of Theoretical Physics Supplement, 2010, 186, 300-305.	0.2	0
103	Hadrons from a hard wall AdS/QCD model. Chinese Physics C, 2010, 34, 1520-1522.	1.5	1
104	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
105	Anomalous tensor magnetic moments and form factors of the proton in the self-consistent chiral quark-soliton model. Physical Review D, 2010, 82, .	1.6	17
106	BARYON ANTIDECUplet IN THE CHIRAL QUARK-SOLITON MODEL. , 2010, , .		0
107	$K^*$ -PHOTOPRODUCTION NEAR THE THRESHOLD WITHIN AN EFFECTIVE LAGRANGIAN APPROACH. , 2010, , .		0
108	MESONS AND NUCLEONS FROM HOLOGRAPHIC QCD. , 2010, , .		0

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109	PION AND KAON STRUCTURES FROM THE INSTANTON VACUUM. Modern Physics Letters A, 2009, 24, 887-890.	0.5	1
110	PION PROPERTIES AT FINITE DENSITY. Modern Physics Letters A, 2009, 24, 891-894.	0.5	0
111	Mesons and nucleons from holographic QCD in a unified approach. Journal of High Energy Physics, 2009, 2009, 034-034.	1.6	9
112	Photoproduction of $\hat{\Sigma}^+(1540, 1/2^+)$ reexamined with new theoretical information. Physical Review D, 2009, 79, .	1.6	1
113	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
114	Vector transition form factors of the $\hat{\Sigma}^+$ and $\hat{\Sigma}^0$ in the chiral quark-soliton model. Nuclear Physics A, 2008, 811, 353-377.	0.6	12
115	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
116	VECTOR AND AXIAL-VECTOR STRUCTURES OF THE $\hat{\Sigma}^+$ . Modern Physics Letters A, 2008, 23, 2238-2241.	0.5	1
117	MAGNETIC SUSCEPTIBILITY OF THE QCD VACUUM AT FINITE DENSITY. Modern Physics Letters A, 2008, 23, 2360-2363.	0.5	1
118	Semileptonic hyperon decays in the self-consistent SU(3) chiral quark-soliton model. Journal of High Energy Physics, 2008, 2008, 132-132.	1.6	18
119	Electromagnetic form factors of the pion and kaon from the instanton vacuum. Physical Review D, 2008, 77, .	1.6	26
120	A new nucleon resonance in $\hat{\Sigma}^+$ photoproduction. , 2008, , 185-187.		0
121	The electric dipole moment of the nucleons in holographic QCD. Journal of High Energy Physics, 2007, 2007, 036-036.	1.6	20
122	Kaon semileptonic decay ( $Kl3$ ) form factors from the instanton vacuum. Physical Review D, 2007, 75, .	1.6	12
123	Quark spin content of the proton, hyperon semileptonic decays, and the decay width of the $\hat{\Sigma}^+$ pentaquark. Physical Review D, 2007, 75, .	1.6	13
124	Magnetic and Axial-Vector Transitions of the Baryon Antidecuplet. Progress of Theoretical Physics Supplement, 2007, 168, 62-69.	0.2	1
125	Test of the reaction mechanism for $\hat{\Sigma}^+ \rightarrow \hat{\Sigma}^0 + K^+$ (1520) using the polarized photon. Physical Review D, 2007, 75, .	1.6	14
126	$1/N_c$ corrections to the magnetic susceptibility of the QCD vacuum. Physical Review D, 2007, 76, .	1.6	23



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127	QCD condensates with flavor SU(3) symmetry breaking from the instanton vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 647, 145-151.	1.5	18
128	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
129	Leading-twist pion and kaon distribution amplitudes from the QCD instanton vacuum. Physical Review D, 2006, 74, .	1.6	42
130	Parity-violating asymmetries in elastic $\pi^+\pi^+$ scattering in the chiral quark-soliton model: Comparison with the A4, G0, HAPPEX and SAMPLE experiments. Physical Review D, 2006, 74, .	1.6	21
131	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
132	Meson-loop contributions to the quark condensate from the instanton vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 633, 701-709.	1.5	18
133	$\chi$ suppression of $\chi$ in the instanton vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 633, 701-709.	1.5	16
134	$\chi$ suppression of $\chi$ in the instanton vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 633, 701-709.	1.5	41
135	$I^S = 0$ effective weak chiral Lagrangian from the instanton vacuum. European Physical Journal C, 2006, 45, 451-457.	1.4	4
136	Pentaquark $\hat{\Gamma}^+$ production via $\hat{1}^3\hat{N}\hat{\Gamma}^+\hat{K}\hat{\Gamma}^+(3/2\hat{\Lambda}\pm)$ . Physical Review C, 2006, 74, .	1.1	2
137	Magnetic susceptibility of the QCD vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 608, 95-106.	1.5	34
138	Pentaquarks: Review on models and solitonic calculations of antidecuplet magnetic moments. Progress in Particle and Nuclear Physics, 2005, 55, 350-373.	5.6	21
139	Strangeness-conserving effective weak chiral Lagrangian. European Physical Journal A, 2005, 24, 105-105.	1.0	2
140	$\hat{1}^-(1520,3/2\hat{\Lambda}^-)$ -photoproduction reaction via $\hat{1}^3\hat{N}\hat{\Gamma}^+\hat{K}\hat{\Gamma}^*(1520)$ . Physical Review D, 2005, 71, .	1.6	45
141	Exotic and nonexotic magnetic transitions in the context of the SELEX and GRAAL experiments. Physical Review D, 2005, 71, .	1.6	34
142	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
143	PHOTON AND NUCLEON INDUCED PRODUCTION OF $\hat{\Gamma}^+$ . , 2005, , .		0
144	MAGNETIC MOMENTS OF THE PENTAQUARKS. , 2005, , .		0

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145	Octet, decuplet, and antidecuplet magnetic moments in the chiral quark soliton model reexamined. Physical Review D, 2004, 70, .	1.6	30
146	Production of the pentaquark $\hat{\Gamma}^+$ in np scattering. Physical Review D, 2004, 70, .	1.6	5
147	Effective chiral Lagrangian in the chiral limit from the instanton vacuum. Physical Review D, 2004, 69, .	1.6	8
148	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
149	Threshold production of the $\chi_{c1}$ in $\pi^+p \rightarrow \pi^0 p \chi_{c1}$ reactions. Physical Review D, 2001, 63, 054011.	1.5	10
150	A test of the instanton vacuum with low-energy theorems of the axial anomaly. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 572, 181-188.	1.5	18
151	$\hat{\Gamma}^S=1,2$ effective weak chiral Lagrangian from the instanton vacuum. Nuclear Physics A, 2002, 699, 541-561.	0.6	7
152	Strange vector form factors of the nucleon. AIP Conference Proceedings, 2001, , .	0.3	0
153	Strange form factors in the context of SAMPLE, HAPPEX, and A4 experiments. Physical Review D, 2001, 65, .	1.6	41
154	Hyperon semileptonic decays and quark spin content of the proton. Physical Review D, 2000, 61, .	1.6	19
155	STRANGENESS IN THE NUCLEON in the SU(3) CHIRAL QUARK-SOLITON MODEL. , 2000, , .		0
156	Effective weak chiral Lagrangian to (p) in the chiral quark model. Nuclear Physics B, 1999, 562, 213-236.	0.9	9
157	Tensor susceptibilities of the vacuum from constituent quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 438, 242-247.	1.5	18
158	Magnetic moments of the SU(3) decuplet baryons in the chiral quark-soliton model. Physical Review D, 1998, 57, 2859-2870.	1.6	50
159	Semileptonic decay constants of octet baryons in the chiral quark-soliton model. Physical Review D, 1998, 57, 299-307.	1.6	15
160	Flavor structure of the octet magnetic moments. Physical Review D, 1998, 58, .	1.6	24
161	Weak electricity of the nucleon in the chiral quark-soliton model. Physical Review D, 1997, 55, 5698-5701.	1.6	1
162	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

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163	Elusive exotic states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 375, 310-314.	1.5	2
164	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
165	Nucleon tensor charges in the SU(2) chiral quark-soliton model. Physical Review D, 1996, 53, R4715-R4718.	1.6	41
166	Top quark soliton and its anomalous chromomagnetic moment. Physical Review D, 1996, 54, 3598-3607.	1.6	9
167	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