

Hyun-Chul Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/913250/publications.pdf>

Version: 2024-02-01

122
papers

1,945
citations

257450
h-index

345221
g-index

125
all docs

125
docs citations

125
times ranked

1181
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcranial focused ultrasound stimulation of human primary visual cortex. <i>Scientific Reports</i> , 2016, 6, 34026.	3.3	262
2	Smartphone-Based Psychotherapeutic Micro-Interventions to Improve Mood in a Real-World Setting. <i>Frontiers in Psychology</i> , 2016, 7, 1112.	2.1	58
3	Energymomentum tensor form factors of the nucleon in nuclear matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 718, 625-631.	4.1	49
4	Contribution of higher nucleon resonances to K^* photoproduction. <i>Physical Review D</i> , 2011, 84, .	4.7	47
5	$\bar{K}(1520,3/2^-)$ photoproduction reaction via $\bar{K}^*(1520)$. <i>Physical Review D</i> , 2005, 71, .	4.7	45
6	Tensor charges of the nucleon in the SU(3) chiral quark soliton model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 387, 577-581.	4.1	43
7	Leading-twist pion and kaon distribution amplitudes from the QCD instanton vacuum. <i>Physical Review D</i> , 2006, 74, .	4.7	42
8	Strange form factors in the context of SAMPLE, HAPPEX, and A4 experiments. <i>Physical Review D</i> , 2001, 65, .	4.7	41
9	A new Λ form factor. <i>Physical Review D</i> , 2001, 65, .	4.7	41
10	Magnetic susceptibility of the QCD vacuum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 608, 95-106.	4.1	34
11	Exotic and nonexotic magnetic transitions in the context of the SELEX and GRAAL experiments. <i>Physical Review D</i> , 2005, 71, .	4.7	34
12	Leading-twist pion and kaon distribution amplitudes in the gauge-invariant nonlocal chiral quark model from the instanton vacuum. <i>Physical Review D</i> , 2006, 74, .	4.7	33
13	Axial-vector form factors of the nucleon within the chiral quark-soliton model and their strange components. <i>Physical Review D</i> , 2005, 72, .	4.7	32
14	Pion mean fields and heavy baryons. <i>Physical Review D</i> , 2016, 94, .	4.7	32
15	Mediation analysis of triple networks revealed functional feature of mindfulness from real-time fMRI neurofeedback. <i>NeuroImage</i> , 2019, 195, 409-432.	4.2	32
16	Magnetic moments of exotic pentaquarks in the chiral quarksoliton model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 585, 99-105.	4.1	31
17	$\bar{\Lambda}$ photoproduction with coupled-channel effects. <i>Progress of Theoretical and Experimental Physics</i> , 2014, 2014, 23D03-0.	6.6	31
18	Hyperon semileptonic decay constants with flavor SU(3) symmetry breaking. <i>Physical Review C</i> , 2015, 92, .	2.9	31

#	ARTICLE	IF	CITATIONS
19	Magnetic moments of the lowest-lying singly heavy baryons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 601-606.	4.1	31
20	Octet, decuplet, and antidecuplet magnetic moments in the chiral quark soliton model reexamined. Physical Review D, 2004, 70, . <small>In-medium modified energy-momentum tensor form factors of the nucleon within the framework of a</small>	4.7	30
21	<small><math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" > <mml:mi>I</mml:mi> </mml:math> - <math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" > <mml:mi>I</mml:mi> </mml:math> - <math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" > <mml:mi>I</mml:mi> </mml:math></small>	4.7	30
22	Electromagnetic form factors of the pion and kaon from the instanton vacuum. Physical Review D, 2008, 77, .	4.7	26
23	Tensor charges and form factors of SU(3) baryons in the self-consistent SU(3) chiral quark-soliton model. Physical Review D, 2010, 82, .	4.7	26
24	Deep neural network predicts emotional responses of the human brain from functional magnetic resonance imaging. NeuroImage, 2019, 186, 607-627.	4.2	25
25	Energy-momentum tensor form factors of the nucleon within a soliton model. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 055107.	3.6	24
26	1/N corrections to the magnetic susceptibility of the QCD vacuum. Physical Review D, 2007, 76, .	4.7	23
27	Recursive approach of EEG-segment-based principal component analysis substantially reduces cryogenic pump artifacts in simultaneous EEG-fMRI data. NeuroImage, 2015, 104, 437-451.	4.2	23
28	Pentaquarks: Review on models and solitonic calculations of antidecuplet magnetic moments. Progress in Particle and Nuclear Physics, 2005, 55, 350-373.	14.4	21
29	Parity-violating asymmetries in elastic scattering in the chiral quark-soliton model: Comparison with the A4, G0, HAPPEX and SAMPLE experiments. Physical Review D, 2006, 74, .	4.7	21
30	Twist-3 pion and kaon distribution amplitudes from the instanton vacuum with flavor SU(3) symmetry breaking. Physical Review D, 2006, 74, .	4.7	21
31	The electric dipole moment of the nucleons in holographic QCD. Journal of High Energy Physics, 2007, 2007, 036-036.	4.7	20
32	Spin structure of the pion from the instanton vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 305-312.	4.1	19
33	Heavy pentaquark states P(4380) and P(4450) in the J/ψ production induced by pion beams off the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 358-364.	4.1	19
34	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.	4.1	18
35	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.	4.1	18
36	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.	4.1	18

#	ARTICLE		IF	CITATIONS
37	Semileptonic hyperon decays in the self-consistent SU(3) chiral quark-soliton model. <i>Journal of High Energy Physics</i> , 2008, 2008, 132-132.		4.7	18
38	Effects of $N(2000)5/2^+$, $N(2060)5/2^-$, $N(2120)3/2^-$, and $N(2190)7/2^-$ on $K^*\pi$ photoproduction. <i>Physical Review D</i> , 2014, 90, .		4.7	18
39	Production of strange and charmed baryons in pion induced reactions. <i>Physical Review D</i> , 2015, 92, .		4.7	18
40	Strong force fields and stabilities of the nucleon and singly heavy baryon $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\frac{f_1}{f_0} \frac{f_2}{f_0} \frac{f_3}{f_0}$. <i>Physical Review D</i> , 2021, 103, .		4.7	18
41	Anomalous tensor magnetic moments and form factors of the proton in the self-consistent chiral quark-soliton model. <i>Physical Review D</i> , 2010, 82, .		4.7	17
42	Binding energy per nucleon and hadron properties in nuclear matter. <i>Physical Review C</i> , 2011, 83, .		2.9	17
43	fMRI volume classification using a 3D convolutional neural network robust to shifted and scaled neuronal activations. <i>NeuroImage</i> , 2020, 223, 117328.		4.2	17
44	Transcranial focused ultrasound modulates cortical and thalamic motor activity in awake sheep. <i>Scientific Reports</i> , 2021, 11, 19274.		3.3	17
45	 Electromagnetic mass differences of SU(3) baryons within a chiral soliton model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 695, 214-218.		4.1	16
46	Electromagnetic mass differences of SU(3) baryons within a chiral soliton model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 695, 214-218.		4.1	16
47	$K^*\pi$ photoproduction off the proton target with baryon resonances. <i>Physical Review D</i> , 2013, 88, .		4.7	16
48	Personalized prediction of smartphone-based psychotherapeutic micro-intervention success using machine learning. <i>Journal of Affective Disorders</i> , 2020, 264, 430-437.		4.1	16
49	A naturalistic viewing paradigm using 360° panoramic video clips and real-time field-of-view changes with eye-gaze tracking. <i>NeuroImage</i> , 2020, 216, 116617.		4.2	16
50	Test of the reaction mechanism for $\bar{N}^3\bar{K}^*(1520)$ using the polarized photon. <i>Physical Review D</i> , 2007, 75, .		4.7	14
51	Isospin mass differences of singly heavy baryons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 808, 135619.		4.1	14
52	Quark spin content of the proton, hyperon semileptonic decays, and the decay width of the $\bar{p}^3\bar{p}$ -pentaquark. <i>Physical Review D</i> , 2007, 75, .		4.7	13
53	Stability of the pion and the pattern of chiral symmetry breaking. <i>Physical Review D</i> , 2014, 90, .		4.7	13
54	Meson-baryon coupling constants of the SU(3) baryons with flavor SU(3) symmetry breaking. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 785, 434-440.		4.1	13

#	ARTICLE	IF	CITATIONS
55	<p>ARTICLE</p> <p>Article of hidden-charm strange pentaquarks <mml:math></p> <p>$\text{from the } \langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block"> \langle \text{mml:msub} \langle \text{mml:mi} \text{ P } \rangle \text{/mml:mi} \langle \text{mml:mrow} \langle \text{mml:mi} \text{ c } \rangle \text{/mml:mi} \langle \text{mml:mi} \text{ s } \rangle \text{/mml:mi} \text{/mml:mrow} \text{/mml:msub} \text{/mml:math}$</p> <p>$\text{stretchy="false"} \rangle \hat{\alpha} \langle \text{mml:mo} \text{ \text{c}} \rangle \text{/mml:mo} \langle \text{mml:mi} \text{ J } \rangle \text{/mml:mi} \langle \text{mml:mo} \text{ \text{c}} \rangle \text{/mml:mo} \text{ stretchy="false"} \rangle \langle \text{mml:mi} \text{ c } \rangle \text{/mml:mi} \text{/mml:math}$</p> <p>Kaon semileptonic decay (Kl3) form factors from the instanton vacuum. Physical Review D, 2007, 75, .</p>	4.7	13
56		4.7	12
57	Vector transition form factors of the and in the chiral quarkâ€“soliton model. Nuclear Physics A, 2008, 811, 353-377.	1.5	12
58	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, .	4.7	12
59	Overview of the KoRIA Facility for Rare Isotope Beams. Few-Body Systems, 2013, 54, 197-204.	1.5	12
60	Electromagnetic transitions of the singly charmed baryons with spin <mml:math> <p>$\text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block"> \langle \text{mml:mrow} \langle \text{mml:mn} \text{ 3 } \rangle \text{/mml:mn} \langle \text{mml:mo} \text{ /} \rangle \text{/mml:mo} \langle \text{mml:mn} \text{ 2 } \rangle \text{/mml:mn} \text{/mml:mrow} \text{/mml:math}$</p> <p>Physical Review D, 2021, 103, .</p>	4.7	12
61	In-medium modified f_π mesonic Lagrangian and properties of nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 442-447.	4.1	11
62	Energy-momentum tensor of the nucleon on the light front: Abel tomography case. Physical Review D, 2021, 104, .	4.7	11
63	<p>threshold production of the <math altimg="s1.gif" overflow="scroll"></p> <p>$\text{xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:cdb="http://www.elsevier.com/xml/common/struct/cdb.dtd" xmlns:insc="http://www.elsevier.com/xml/insc/insc.xsd"}$</p> <p>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.</p>	4.1	10
64		4.1	10
65	Modification of generalized vector form factors and transverse charge densities of the nucleon in nuclear matter. Physical Review D, 2016, 93, .	4.7	10
66	K0̄ photoproduction off the neutron with nucleon resonances. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 156-164.	4.1	10
67	Axial-vector form factors of the baryon decuplet with flavor SU(3) symmetry breaking. Physical Review D, 2020, 102, .	4.7	10
68	Mesons and nucleons from holographic QCD in a unified approach. Journal of High Energy Physics, 2009, 2009, 034-034.	4.7	9
69	Transverse charge distributions of the nucleon and their Abel images. Physical Review D, 2021, 104, .	4.7	9
70	Effective chiral Lagrangian in the chiral limit from the instanton vacuum. Physical Review D, 2004, 69, .	4.7	8
71	Generalized form factors and spin structures of the kaon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 546-552.	4.1	8
72	<p><math xmlns:mml="http://www.w3.org/1998/Math/MathML"</p> <p>$\text{display="block"> \langle \text{mml:mrow} \langle \text{mml:msup} \langle \text{mml:mrow} \langle \text{mml:mi} \text{ K } \rangle \text{/mml:mi} \text{/mml:mrow} \text{/mml:msup} \text{/mml:mrow} \text{/mml:math}$</p> <p>$\text{mathvariant="normal"> \hat{\beta} \langle \text{mml:mi} \text{ D } \rangle \langle \text{mml:mo} \text{ \text{c}} \rangle \text{/mml:mo} \text{/mml:mrow} \text{/mml:math} \text{ and } \langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"$</p> <p>$\text{display="block"> \langle \text{mml:msup} \langle \text{mml:mi} \text{ D } \rangle \text{/mml:mi} \langle \text{mml:mo} \text{ \text{c}} \rangle \text{/mml:mo} \text{/mml:msup} \text{/mml:math} \text{ production }$</p>	4.7	8

#	ARTICLE		IF	CITATIONS
73	3D convolutional neural network for feature extraction and classification of fMRI volumes. , 2018,,.			8
74	??(1405,1/2?) Photoproduction from the ??p \rightarrow K+??(1405) Reaction. Journal of the Korean Physical Society, 2011, 59, 2676-2683.		0.7	8
75	$\tilde{\chi}^0 S=1,2$ effective weak chiral Lagrangian from the instanton vacuum. Nuclear Physics A, 2002, 699, 541-561.		1.5	7
76	Quark-gluon mixed condensate of the QCD vacuum in holographic QCD. Journal of High Energy Physics, 2008, 2008, 011-011.		4.7	6
77	Hybrid exotic meson with $J/\psi \rightarrow PC = 1 + \alpha'$ in AdS/QCD. Journal of High Energy Physics, 2009, 2009, 034-034.		4.7	6
78	Parity-violating $\bar{N}N$ coupling constant in the chiral quark-soliton model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 439-446.		4.1	6
79	Test of retest reliability of spatial patterns from resting-state functional MRI using the restricted Boltzmann machine and hierarchically organized spatial patterns from the deep belief network. Journal of Neuroscience Methods, 2020, 330, 108451.		2.5	6
80	Mixed-effects multilevel analysis followed by canonical correlation analysis is an effective fMRI tool for the investigation of idiosyncrasies. Human Brain Mapping, 2021, 42, 5374-5396.		3.6	6
81	Production of the pentaquark Ξ^+ in np scattering. Physical Review D, 2004, 70, .		4.7	5
82	Transverse strange quark spin structure of the nucleon. Physical Review D, 2012, 85, .		4.7	5
83	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.		0.7	5
84	Production and decay of charmed baryons. Nuclear Physics A, 2016, 954, 341-351.		1.5	5
85	Magnetic Susceptibility of the QCD Vacuum at a Finite Quark-chemical Potential. Journal of the Korean Physical Society, 2009, 55, 429-434.		0.7	5
86	$\tilde{\chi}^0 S = 0$ effective weak chiral Lagrangian from the instanton vacuum. European Physical Journal C, 2006, 45, 451-457.		3.9	4
87	Transverse charge densities in the nucleon in nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 375-381.		4.1	4
88	Baryonic matter and the medium modification of the baryon masses. Physical Review C, 2021, 103, .		2.9	4
89	Axial-vector transition form factors of the baryon octet to the baryon decuplet with flavor SU(3) symmetry breaking. Physical Review D, 2022, 105, .		4.7	4
90	Weak $K\pi$ 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.		4.1	3

#	ARTICLE	IF	CITATIONS
91	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.	4.1	3
92	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mi> \tilde{f}_f </mml:mi> </mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mi> \tilde{f}_c </mml:mi> </mml:math> coupling constants for the charmed and beauty mesons. Physical Review D, 2020, 102, .	4.7	3
93	Strangeness-conserving effective weak chiral Lagrangian. European Physical Journal A, 2005, 24, 105-105.	2.5	2
94	Pentaquark \tilde{K}^+ production via $\tilde{N}^3\bar{N}\tilde{K}^* \tilde{K}^+ (3/2\pm)$. Physical Review C, 2006, 74, .	2.9	2
95	Properties of the bound nucleons. EPJ Web of Conferences, 2012, 20, 04005.	0.3	2
96	$\tilde{\pi}$ + baryon, N^* (1685) resonance, and $\tilde{\pi}N$ sigma term reexamined within the framework of a chiral soliton model. Progress of Theoretical and Experimental Physics, 2013, 2013, .	6.6	2
97	Pion radiative weak decay from the instanton vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 687-693.	4.1	2
98	Focused ultrasound enhances the anesthetic effects of topical lidocaine in rats. BMC Anesthesiology, 2021, 21, 158.	1.8	2
99	Photoproduction of $\tilde{\pi}+(1540,1/2+)$ reexamined with new theoretical information. Physical Review D, 2009, 79, .	4.7	1
100	Hadrons from a hard wall AdS/QCD model. Chinese Physics C, 2010, 34, 1520-1522.	3.7	1
101	A phenomenological description of an incoherent Fermi liquid near optimal doping in high-T _c cuprates. Journal of Physics Condensed Matter, 2011, 23, 495701.	1.8	1
102	$\tilde{K}[\sup \hat{\alpha}-]\tilde{K}(1116)$ photoproduction and nucleon resonances. , 2011, , .		1
103	Vector and Tensor Coupling Constants of SU(3) Baryons in a Chiral Soliton Model. Few-Body Systems, 2013, 54, 325-328.	1.5	1
104	Evaluation of weight sparsity control during autoencoder training of resting-state fMRI using non-zero ratio and hoyer's sparseness. , 2016, , .		1
105	Evaluation of weight sparsity regularization schemes of deep neural networks applied to functional neuroimaging data. , 2017, , .		1
106	Nucleon Properties in Nuclear Matter. , 2011, , .		0
107	The mass splittings of SU(3) baryons within a chiral soliton model. , 2011, , .		0
108	Tensor properties of the nucleon. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
109	Spin structures of the pion and nucleon. EPJ Web of Conferences, 2012, 20, 01008.	0.3	0
110	A Modified Pion-Rho-Omega Mesonic Lagrangian in Nuclear Matter. Few-Body Systems, 2013, 54, 1067-1070.	1.5	0
111	Energy-Momentum Tensor Form Factors of the Nucleon in Nuclear Matter in the Chiral Soliton Model. Few-Body Systems, 2013, 54, 1083-1086.	1.5	0
112	Contribution of N^* and $\bar{\Lambda}^*$ Resonances in $\bar{K}^* \Sigma$ Photoproduction. Few-Body Systems, 2013, 54, 1499-1502.	1.5	0
113	$K^* \bar{\Lambda}(1116)$ Photoproduction and Nucleon Resonances. Few-Body Systems, 2013, 54, 307-310.	1.5	0
114	Tensor Form Factors and Transverse Spin Structures of the Nucleon. Few-Body Systems, 2013, 54, 317-320.	1.5	0
115	Pion-Rho Meson Lagrangian in Nuclear Matter. Few-Body Systems, 2013, 54, 465-468.	1.5	0
116	Nuclear Matter Properties from a Chiral Soliton Model. Few-Body Systems, 2013, 54, 517-520.	1.5	0
117	Desynchronization of the mu oscillatory activity during motor imagery: A preliminary EEG-fMRI study., 2015, , ,	0	0
118	BARYON ANTIDECUPLET IN THE CHIRAL QUARK-SOLITON MODEL. , 2010, , ,	0	0
119	\bar{e} -PHOTOPRODUCTION NEAR THE THRESHOLD WITHIN AN EFFECTIVE LAGRANGIAN APPROACH. , 2010, , ,	0	0
120	MESONS AND NUCLEONS FROM HOLOGRAPHIC QCD. , 2010, , ,	0	0
121	Pion Electromagnetic Form Factor and ??-meson Mass Shift at Finite Density. Journal of the Korean Physical Society, 2011, 59, 217-223.	0.7	0
122	Electronic Cigarette Vaping Did Not Enhance the Neural Process of Working Memory for Regular Cigarette Smokers. Frontiers in Human Neuroscience, 2022, 16, 817538.	2.0	0