

# Publication List of Chung Wen Kao

citation by 2025.04.16

## Invited review articles published in journals:

- ◆ *New predictions of generalized spin polarizabilities in heavy baryon chiral perturbation theory*

**Int. J. Mod. Phys. A**21:2027-2148, (2006).[Single author]

citation: 4

**Total citation=4**

## Articles submitted to referred journals:

- ◆ *Empirical estimate of the unpolarized dihadron fragmentation functions*

with D. J. Yang and S.-i. Nam

**submitted to CJP** [e-print arXiv: 1912.13006] [Corresponding author]

citation: 0

**Total citation=0**

## Articles published in referred journals:

- ◆ *Implications of the Topological Chern-Simons mass in the Gap Equation*

with Felix, C.P.

**Phys. Rev. D** 105, 094016 (2022) [e-print arXiv: 2105.09133]

citation: 2

- ◆ *Unpolarized Dihadron Fragmentation Functions in Nonlocal Chiral Quark Model*

with D. J. Yang, F. J. Jiang, C.D. Li, and S.-i. Nam

**Chin. Phys. J** 71, 248-259 (2021) [e-print arXiv: 1407.4453] [Corresponding author]

citation: 2

- ◆ *Kaon quark distribution functions in the chiral constituent quark model*

with A. Watanabe and Takahiro Sawada

**Phys. Rev. D** 97, 074015 (2018) [e-print arXiv: 1710.09529] [Corresponding author]

citation: 29

- ◆ *QCD topological susceptibility from the nonlocal chiral quark mode*

with S.-i. Nam

**J. Korean Physical Society**, Vol 70, No12, 1027-1036, (2017)

[e-print arXiv: 1604.01220] [Corresponding author]

citation: 0

- ◆ *Spin-dependent sum rules connecting real and virtual Compton scattering verified*

with V. Lensky, V. Pascalutsa, M. Vanderhaeghen

**Phys. Rev. D** 95, 074001 (2017) [e-print arXiv: 1701.01947]

citation: 14

◆ *Meson cloud effects on the pion quark distribution function in the chiral constituent quark model*

with A. Watanabe and K. Suzuki

**Phys. Rev D**94, 114008 (2016) [e-print arXiv: 1610.08817] [Corresponding author]  
citation: 23

◆ *Consistency check of charged hadron multiplicities and fragmentation functions in semi-inclusive DIS process*

with D. J. Yang, F. J. Jiang, W. C. Chang and S.-i. Nam

**Phys. Lett. B** 755 (2016) 393-402 [e-print arXiv: 1511.08026] [Corresponding author]  
citation: 8

◆ *Shear viscosity of quark matter at finite temperature in magnetic fields*

with S.-i. Nam

**Phys. Rev D** 87, 114003 (2013) [e-print arXiv: 1304.0287] [Corresponding author]  
citation: 38

◆ *Quark-jet contribution to the fragmentation functions of the pion and kaon with the nonlocal interactions.*

with D.-J. Yang, F.-J. Jiang, and S.-i. Nam

**Phys. Rev. D** 87, 094007(2013) [e-print arXiv: 1304.0525]. [Corresponding author]  
citation: 9

◆ *QCD Chiral restoration at finite T under the Magnetic field: Studies based on the instanton vacuum model*

with S.-i. Nam

**Few Body Syst.** 54, 225-229 (2013) [e-print arXiv: 1109.1096]. [Corresponding author]  
citation: 0

◆ *Unpolarized fragmentation functions for the pion and kaon via the non-local chiral quark model*

with S.-i. Nam and B.-G. Yu

**Few Body Syst.** 54, 251-254 (2013) [e-print arXiv: 1109.0357].  
citation: 2

◆ *Fragmentation and quark distribution functions for the pion and kaon with explicit flavor-SU(3)-symmetry breaking.*

with S. i. Nam

**Phys. Rev. D** 85:094023 (2012) [e-print arXiv: 1202.3281]. [Corresponding author]  
citation: 16

◆ *Fragmentation functions and parton distribution functions for the pion with the nonlocal interactions.*

with S. i. Nam

**Phys. Rev. D** D85:034023 (2012). [e-print arXiv: 1111.4444]. [Corresponding author]

citation:17

◆ *Chiral restoration at finite  $T$  under the magnetic field with the meson-loop corrections*

with S.I. Nam

**Phys. Rev. D** **83**, 096009 (2011) [e-print arXiv: 1103.6059]. [Corresponding author]

citation: 31

◆ *Chiral restoration at finite temperature with meson loop correction*

with S.I. Nam

**Phys. Rev. D** **82**, 096001 (2010) [e-print arXiv: 1005.1689]. [Corresponding author]

citation: 7

◆  *$\Lambda(1520)$  photoproduction off the proton with Regge contributions*

with S.I. Nam

**Phys. Rev. C** **81**, 05526 (2010)[e-print arXiv: 1003.0700]. [Corresponding author]

citation: 38

◆ *On the two-boson exchange corrections to the parity-violating elastic electron-proton scattering*

with H.Q. Yang, S. N. Yang and K. Nagata

**Phys. Rev. C** **81**, 035208 (2010) [e-print arXiv: 0910.3307]. [Corresponding author]

citation: 22

◆ *The loop corrections to Parity-Violating Elastic Electron-Proton Scattering*

with Y.C. Chen

**Int.J.Mod.Phys.A** **24**:3645-3651(2009). [e-Print: arXiv:0903.1159]

citation: 0

◆ *Contribution of Two-Boson-Exchange with  $\Delta(1232)$  excitation to parity-violating elastic electron-proton scattering*

with K. Nagata, H.-Q. Zhou and S.-N. Yang

**Phys. Rev. C** **79**, 062501 (2009) [e-print arXiv: 0811.3539] [Corresponding author]

citation: 23

◆ *Extraction of charged pion polarizabilities from radiative pion photoproduction in Heavy Baryon Chiral perturbation Theory*

with B. E. Norum and Kebin Wang

**Phys. Rev. D** **79**, 054001, (2009) [e-print arXiv: hep-ph/0409081]. [First author, Corresponding author]

citation: 9

◆ *Chiral corrections to the nucleon generalized parton distributions*

**Few-body Systems** **44**, p.107 – 110, (2008) [Single author]

citation: 0

◆ *U-boson and the HyperCP exotic events*

with C.-H. Chen and G..Q. Geng

**Phys. Lett. B** **663** 400-404, (2008) [e-print arXiv: 0708.0937].

citation:30

◆ *The Two-Photon-Exchange and  $\pi\pi$ -Exchange Corrections to Parity-Violating Elastic Electron-Proton Scattering*

with H.-Q. Zhou and S.-N. Yang

**Phys. Rev. Lett.** **99** 262001, (2007) [e-print arXiv: 0708.4297]. [Corresponding author]

citation: 45

◆ *The radiative charged pion photoproduction and pion polarizabilities : An analysis within heavy baryon chiral perturbation theory*

with B. E. Norum and K.-B. Wang

**Few-body Systems** **41** 31-42, (2007) [Corresponding author]

citation:1

◆ *Is there model-independent evidence of the two-photon-exchange effects in elastic-proton scattering?*

with Y.-C. Chen and S.N. Yang

**Phys. Lett. B** **652** 269-274, (2007)[e-print nucl-th/0703017]. [Corresponding author]

citation: 68

◆ *Observables in elastic electron-deuteron scattering with two-photon-exchange*

with Y.-B. Dong, S.-N. Yang and Y.-C. Chen

**Phys. Rev. C** **74** 064006, (2006) [e-print nucl-th/0610094]

citation:17

◆ *Leading chiral corrections to the nucleon generalized parton distributions*

with S.-I. Ando and J.-W. Chen

**Phys. Rev. D** **74** 094013, (2006) [e-print hep-ph/0602200]

citation: 60

◆ *Many body methods and effective field theory*

with T. Schäfer and S. R. Cotanch

**Nucl. Phys. A** **762**, 82-101, (2005) [e-print nucl-th/0504088].

citation: 52

◆ *New predictions of generalized spin polarizabilities from heavy baryon chiral perturbation theory*

with B. Pasquini and M. Vanderhaeghen.

**Phys. Rev. D** **70**, 114004 (2004). [e-print hep-ph/0408095]. [First author]

citation:35

◆ *Higher moments of nuclear spin structure functions in heavy baryon chiral perturbation theory and in a resonance model*

with D. Drechsel, S. Kamalov and M. Vanderhaeghen.

**Phys. Rev. D** **69**, 056004 (2004). [e-print hep-ph/0312102]

citaion:19

◆ *Screening and antiscreening effects in anisotropic QED and QCD plasmas*

with M. C. Birse and G. C. Nayak.

**Phys. Lett. B** **570**, 171-179 (2003). [e-print hep-ph/0304209]

citaion:56

◆ *The Burkhardt-Cottingham sum rule and forward spin polarizabilities in heavy baryon chiral perturbation theory*

with Th. Spitzenberg and M. Vanderhaeghen.

**Phys. Rev. D** **67**, 016001 (2003). [e-print hep-ph/0209241][First author]

citation: 87

◆ *Generalized spin polarizabilities of the nucleon in heavy baryon chiral perturbation theory at next-leading order*

with M. Vanderhaeghen.

**Phys. Rev. Lett.** **89**, 272002 (2002). [e-print hep-ph/0209336][First author]

citation:35

◆ *Infrared behaviour of the gluon propagator in non-equilibrium situation*

with F. Cooper and G. C. Nayak.

**Phys. Rev. D** **66**, 114016 (2002). [e-print hep-ph/0204042]

citation:51

◆ *Closed-Time path integral formalism and medium effects of non-equilibrium QCD matter*

with G. C. Nayak and W. Greiner.

**Phys. Rev. D** **66**, 034017 (2002). [e-print hep-ph/0102153] [First author]

citation:52

◆ *Color current induced by quantum gluons in background field method*

with Q. Wang, G. C. Nayak, H. Stöcker and W. Greiner.

**Int. J. Mod. Phys. E** **10**, 483-500 (2001). [e-print hep-th/0009076]

citation:22

◆ *Generalized Drell-Hearn-Gerasimov sum rule*

with X. Ji and J. Osborne.

**Nucl. Phys. A** **684**, 363-365 (2001).

citation: 2

◆ *Parity violation in gammap Compton scattering*

with J.-W. Chen and T. D. Cohen.

**Phys. Rev. C** **64**, 055206 (2001).[e-print nucl-th/0009031]

citation:27

◆ *Generalized Drell-Hearn-Gerasimov sum rule at order  $O(p^4)$  in chiral perturbation theory*

with X. Ji and J. Osborne,

**Phys. Lett. B** **472**, 1-4 (2000). [e-print hep-ph/9910256]

citation: 117

◆ *The nucleon spin polarizability at order  $O(p^4)$  in chiral perturbation theory*

with X. Ji and J. Osborne.

**Phys. Rev. D** **61**, 074003 (2000) [e-print hep-ph/9908526]

citation:57

◆ *The pion photoproduction in Delta(1232) region*

with T. D. Cohen.

**Phys. Rev. C** **60**, 064619 (1999). [e-print nucl-th/9811062]

[First author, corresponding author]

citation:4

◆ *Quark contribution to charge-dependent NN interaction*

with S. N. Yang.

**Nucl. Phys. A** **631**, 492c-496c (1998). [First author]

citation:1

◆ *Short-range interaction in an effective field theory approach for nucleon-nucleon scattering*

with K. A. Scaldeferri, D. R. Phillips and T. D. Cohen.

**Phys. Rev. C** **56**, 679-688 (1997). [e-print nucl-th/9610049]

citation:79

◆ *QED-QCD mixing effect and isospin violation in  $1S0$  NN scattering*

with S. N. Yang.

**Phys. Lett. B** **366**, 1-4 (1996). [First author]

citation:5

**Total citation=1213**

**Articles in the proceedings of conferences:**

◆ *Kaon multiplicities of Semi-Inclusive DIS and the fragmentation functions*

Appearing in the proceeding of the 8th International Conference on Quarks and Nuclear Physics (QNP2018)13-17 Nov 2018. Tsukuba, Japan

[e-print arXiv:1905.08092]

citation:0

◆ *Meson cloud effects on kaon quark distributions and the  $SU(3)$  flavor symmetry*

Appearing in the proceeding of the 21st High-Energy Physics International Conference in Quantum Chromodynamics (QCD18) 02-06 Jul 2018. Montpellier, France

Published in Nucl.Part.Phys.Proc. 300-302 (2018) 121-125

[e-print arXiv:1810.04032]

citation:2

◆ *Charged kaon multiplicities of Semi-Inclusive DIS off the deuteron target*

Appearing in the proceeding of the XXVI International Workshop on Deep Inelastic Scattering and Related Subjects at Kobe university, Kobe, Japan from April 16 to April 20, 2018  
[e-print arXiv:1807.06524]

citation:3

◆ ***Consistency check of charged hadron multiplicities and fragmentation functions in semi-inclusive DIS process***

Appearing in the proceeding of the 14th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (MENU 2016) Kyoto, July 25th to July 30th, 2016.

Published in JPS Conf. Proc. 13 (2017) 020049

citation:0

◆ ***Consistency check of charged hadron multiplicities and fragmentation functions in semi-inclusive DIS process***

Appear in the proceeding of the 12th International Conference on Hypernuclear and Strange Particle Physics (HYP2015) at Tohoku University in Sendai, Japan, from

September 7 (Mon) through 12 (Sat), 2015, Published in JPS Conf.Proc. 17 (2017) 062009

citation:0

◆ ***Fragmentation functions of pions and kaons in the nonlocal quark model***

Appearing in the proceedings of the 13th International Nuclear Physics Conference (INPC2013), Firenze, Italy 02-07 Jun 2013.

Published in EPJ Web Conf. 66 (2014) 06008

citation:1

◆ ***Two-Boson Exchange effects in Parity-conserving and violating  $ep$  elastic scattering***

Appearing in the proceedings of the 12th International Conference on the Structure of the Baryons (Baryon'10), RCNP, Osaka University, Osaka, Japan, Dec 7-Dec 11, 2010.

Published in AIP Conf. Proc. 1374 (2011) 519-522

citation: 0

◆  ***$\Lambda(1520)$  photoproduction with Regge contribution***

Appearing in the proceedings of the 12th International Conference on the Structure of the Baryons (Baryon'10), RCNP, Osaka University, Osaka, Japan, Dec 7-Dec 11, 2010.

Published in AIP Conf. Proc. 1374 (2011) 261-264

[e-print arXiv:1102.2574]

citation: 0

◆ ***Two-Boson Exchange effects in PVES***

Appearing in the proceedings of the 12th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (MENU2010), College of William and Mary Williamsburg,

Virginia May 31-June 4, 2010.

Published in AIP Conf. Proc. 1374 (2011) 519-522

citation: 0

◆ *QCD under magnetic field: chiral magnetic effect at heavy ion collisions*

Presented in 11th Asia Pacific Physics Conference (APPC11) 14-18 Nov 2010. Shanghai, China  
[e-print arXiv:1011.4783]

citation: 0

◆ *Nucleon spin polarizabilities in Heavy Baryon Chiral Perturbation Theory*

Appearing in the proceedings of the “The 18th International Symposium on Spin Physics”,  
University of Virginia, October 6-11, 2008

Published in AIP Conf. Proc. 1149 (2009) 289-292

citation: 1

◆ *The Two-Boson-Exchange corrections to Parity-Violating Elastic Scattering*

with K. Nagata, H.-Q. Zhou and S.-N. Yang

Appearing in the proceedings of the International Conference of Particle and Nuclei (PANIC08)  
Eilat, Israel, November 9-14, 2008

citation: 0

◆ *The nucleon spin polarizabilities at order  $O(p^4)$  in chiral perturbation theory*

with M. Vanderhaeghen.

Appearing in the proceedings of the second International Symposium on the  
Gerasimov-Drell-Hearn sum rule and the spin structure of the nucleon, Genova, Italy,  
July 3-6, 2002.

◆ *Generalized Drell-Hearn-Gerasimov sum rule*

with X. Ji, Chung-Wen Kao and J. Osborne

Appearing in the proceedings of the 16th international  
Conference on Few-Body Problems in Physics, Taipei, Taiwan, March 6-10, 2000.

◆ *QED-QCD mixing effect and isospin violation in  $^1S_0$  NN scattering*

with S. N. Yang.

Appearing in the proceedings of the 14th International Conference On Particles And Nuclei  
(PANIC 96) Williamsburg, Virginia, USA, May 22-28, 1996.

**Total citation=7**

**Unpublished articles:**

◆ *The Third Zemach Moment and the Size of the Proton*

with B.-Y. Wu

[e-print arXiv: 1108.2968] [Corresponding author]

citation: 9



◆ *Partonic calculation of gamma Z Exchange Corrections to Parity-Violating Elastic Electron-Proton Scattering*

with Y. C. Chen, and M. Vanderhaeghen,

[e-print arXiv0903.1098] [Corresponding author]

citation: 7

◆ *Nonzero magnetic screening mass in QED and QCD at one loop level in nonequilibrium*

with F. Cooper and G. C. Nayak,

[e-print arXiv: hep-ph/0207370]

citation: 25

◆ *Quark effects and isospin violation in  $I$ -S(0) NN scattering*

with S.-N. Yang

[e-print arXiv: nucl-th/0107045]

citation: 0

◆ *Pion electroproduction in the Delta (1232) region*

[e-print arXiv: nucl-th/9910069]

citation: 0

**Total citation=41**

**Sum of citation=1265**