

Toru Kojo

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,785
citations

361413
20
h-index

254184
43
g-index

61
all docs

61
docs citations

61
times ranked

924
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | From hadrons to quarks in neutron stars: a review. Reports on Progress in Physics, 2018, 81, 056902. | 20.1 | 437 |
| 2 | Quarkyonic chiral spirals. Nuclear Physics A, 2010, 843, 37-58. | 1.5 | 183 |
| 3 | Phenomenological QCD equation of state for massive neutron stars. Physical Review D, 2015, 91, . | 4.7 | 114 |
| 4 | New Neutron Star Equation of State with Quark-Hadron Crossover. Astrophysical Journal, 2019, 885, 42. | 4.5 | 107 |
| 5 | The quark mass gap in a magnetic field. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 720, 192-197. | 4.1 | 96 |
| 6 | Baryons in holographic QCD. Physical Review D, 2007, 75, . | 4.7 | 92 |
| 7 | Interweaving chiral spirals. Nuclear Physics A, 2012, 875, 94-138. | 1.5 | 85 |
| 8 | THE QUARKYONIC STAR. Astrophysical Journal, 2016, 817, 180. | 4.5 | 63 |
| 9 | Covering the Fermi surface with patches of quarkyonic chiral spirals. Physical Review D, 2010, 82, . | 4.7 | 53 |
| 10 | Hard-core deconfinement and soft-surface delocalization from nuclear to quark matter. Physical Review D, 2020, 102, . | 4.7 | 40 |
| 11 | QCD equations of state and speed of sound in neutron stars. AAPPs Bulletin, 2021, 31, 1. | 6.1 | 40 |
| 12 | Mesons in strong magnetic fields: (I) General analyses. Nuclear Physics A, 2016, 951, 1-30. | 1.5 | 38 |
| 13 | A renormalization group approach for QCD in a strong magnetic field. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 839-845. | 4.1 | 35 |
| 14 | A ()-dimensional example of Quarkyonic matter. Nuclear Physics A, 2012, 877, 70-94. | 1.5 | 33 |
| 15 | Sigma meson in pole-dominated QCD sum rules. Physical Review D, 2008, 78, . | 4.7 | 26 |
| 16 | Phenomenological neutron star equations of state. European Physical Journal A, 2016, 52, 1. | 2.5 | 25 |
| 17 | Effective repulsion in dense quark matter from nonperturbative gluon exchange. Physical Review D, 2019, 100, . | 4.7 | 25 |
| 18 | Functional renormalization group study of the quark-meson model with η' meson. Physical Review D, 2017, 96, . | 4.7 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Stiffening of matter in quark-hadron continuity. <i>Physical Review D</i> , 2021, 104, . | 4.7 | 24 |
| 20 | Brane-induced Skyrmion on S^3 : Baryonic matter in holographic QCD. <i>Physical Review D</i> , 2009, 79, . | 4.7 | 23 |
| 21 | Quark-hadron crossover equations of state for neutron stars: Constraining the chiral invariant mass in a parity doublet model. <i>Physical Review C</i> , 2021, 103, . | 2.9 | 19 |
| 22 | Gluon propagator in two-color dense QCD: Massive Yang-Mills approach at one loop. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 18 |
| 23 | Brane-Induced Skyrmions. <i>Progress of Theoretical Physics Supplement</i> , 2007, 168, 231-236. | 0.1 | 16 |
| 24 | Phenomenological QCD equations of state for neutron stars. <i>Nuclear Physics A</i> , 2016, 956, 821-825. | 1.5 | 15 |
| 25 | Peaks of sound velocity in two color dense QCD: Quark saturation effects and semishort range correlations. <i>Physical Review D</i> , 2022, 105, . | 4.7 | 15 |
| 26 | BARYONS WITH HOLOGRAPHY. <i>Modern Physics Letters A</i> , 2008, 23, 2364-2367. | 1.2 | 13 |
| 27 | Pentaquark state in pole-dominated QCD sum rules. <i>Physical Review C</i> , 2006, 74, . | 2.9 | 12 |
| 28 | The dichotomous nucleon: Some radical conjectures for the large N_c limit. <i>Nuclear Physics A</i> , 2011, 852, 155-174. | 1.5 | 12 |
| 29 | Color screening in cold quark matter. <i>Physical Review D</i> , 2014, 89, . | 4.7 | 12 |
| 30 | Thermal quarks and gluon propagators in two-color dense QCD. <i>Physical Review D</i> , 2021, 103, . | 4.7 | 11 |
| 31 | The quark mass gap in strong magnetic fields. <i>Nuclear Physics A</i> , 2014, 931, 763-768. | 1.5 | 10 |
| 32 | Phenomenological QCD equations of state for neutron star dynamics: Nuclear-2SC continuity and evolving effective couplings. <i>Physical Review D</i> , 2021, 104, . | 4.7 | 9 |
| 33 | Chiral condensates for neutron stars in hadron-quark crossover: From a parity doublet nucleon model to a Nambu-Jona-Lasinio quark model. <i>Physical Review C</i> , 2021, 104, . | 2.9 | 8 |
| 34 | Neutral and charged mesons in magnetic fields. <i>European Physical Journal A</i> , 2021, 57, 1. | 2.5 | 6 |
| 35 | Can the nucleon axial charge be ?. <i>Nuclear Physics A</i> , 2013, 899, 76-106. | 1.5 | 5 |
| 36 | Chiral spirals from noncontinuous chiral symmetry: The Gross-Neveu model results. <i>Physical Review D</i> , 2014, 90, . | 4.7 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Delineating the properties of matter in cold, dense QCD. AIP Conference Proceedings, 2019, , . | 0.4 | 5 |
| 38 | Delineating chiral separation effect in two-color dense QCD. Physical Review D, 2021, 104, . | 4.7 | 5 |
| 39 | Peristaltic modes of a single vortex in the Abelian Higgs model. Physical Review D, 2007, 75, . | 4.7 | 4 |
| 40 | Spin- $\langle \mathit{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \mathit{mml:mn}3\langle \mathit{mml:mn}\langle \mathit{mml:mo}\rangle\langle \mathit{mml:mn}2\langle \mathit{mml:mn}\rangle\langle \mathit{mml:math}\rangle\mathit{pentaquark}$ in QCD sum rules. Physical Review D, 2009, 79, . | 4.7 | 4 |
| 41 | Baryonic Matter in Holographic QCD. Progress of Theoretical Physics Supplement, 2008, 174, 347-352. | 0.1 | 3 |
| 42 | Possible quantum numbers of the pentaquark $\langle \mathit{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \mathit{mml:msup}\langle \mathit{mml:mi}\hat{\Gamma}\langle \mathit{mml:mi}\langle \mathit{mml:mo}\rangle+\langle \mathit{mml:mo}\rangle\langle \mathit{mml:msup}\langle \mathit{mml:mo}$ stretchy="false">(</mml:mo>< mml:mn>1540</mml:mn>< mml:mo> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 527 Td (stretchy="false"></m | 4.7 | 3 |
| 43 | Pseudo Nambuâ€“Goldstone modes in neutron stars. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 14-20. | 4.1 | 3 |
| 44 | Exotic Hadron in Pole-Dominated QCD Sum Rules. Progress of Theoretical Physics Supplement, 2007, 168, 58-61. | 0.1 | 2 |
| 45 | Baryons and Baryonic Matter in Holographic QCD from Superstring. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 248-251. | 0.4 | 2 |
| 46 | Phenomenological QCD equations of state for neutron star mergers. Nuclear Physics A, 2017, 967, 832-835. | 1.5 | 2 |
| 47 | Zero point energy of composite particles: The medium effects. Physical Review D, 2020, 101, . | 4.7 | 2 |
| 48 | QCD Equations of State in Hadronâ€“Quark Continuity. Universe, 2018, 4, 42. | 2.5 | 1 |
| 49 | SCALAR NONETS IN POLE-DOMINATED QCD SUM RULES. Modern Physics Letters A, 2008, 23, 2230-2233. | 1.2 | 0 |
| 50 | QCD Sum Rules and 1/NcExpansion. Progress of Theoretical Physics Supplement, 2008, 174, 258-261. | 0.1 | 0 |
| 51 | pentaquarks in QCD sum rules. Nuclear Physics A, 2010, 835, 342-345. | 1.5 | 0 |
| 52 | Possible Quantum Numbers of $\hat{\Gamma}^+(1540)$ in QCD Sum Rules. Progress of Theoretical Physics Supplement, 2010, 186, 193-198. | 0.1 | 0 |
| 53 | Quarkyonic Chiral Spirals. , 2010, , . | | 0 |
| 54 | Quarkyonic Matter and Chiral Spirals. Journal of Physics: Conference Series, 2011, 270, 012049. | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Quarkyonic matter and chiral spirals. , 2011, , . | | 0 |
| 56 | Chiral symmetry in quarkyonic matter. Physics of Atomic Nuclei, 2012, 75, 632-636. | 0.4 | 0 |
| 57 | S = 1 pentaquarks in QCD sum rules. , 2010, , . | | 0 |
| 58 | BARYONS AND BARYONIC MATTER IN HOLOGRAPHIC QCD. , 2010, , . | | 0 |
| 59 | Phenomenological QCD equations of state for neutron star mergers. , 2018, , . | | 0 |
| 60 | Functional renormalization group study on the phase structure in the Quark-Meson model with $\tilde{\chi}$ meson. , 2018, , . | | 0 |
| 61 | Delineating the properties of neutron star matter in cold, dense QCD. , 2020, , . | | 0 |