

# Won Sang Chung

## List of Publications by Year in descending order

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92  
papers

541  
citations

759233

12  
h-index

794594

19  
g-index

92  
all docs

92  
docs citations

92  
times ranked

189  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A new higher order GUP: one dimensional quantum system. European Physical Journal C, 2019, 79, 1.  | 3.9 | 56        |
| 2  | Analysis of black hole thermodynamics with a new higher order generalized uncertainty principle. European Physical Journal C, 2019, 79, 1.   | 3.9 | 41        |
| 3  | Effects of cosmic-string framework on the thermodynamical properties of anharmonic oscillator using the ordinary statistics and the q-deformed superstatistics approaches. European Physical Journal C, 2018, 78, 1. | 3.9 | 32        |
| 4  | Quantum mechanics on (anti)-de Sitter background. Modern Physics Letters A, 2017, 32, 1750138.   | 1.2 | 25        |
| 5  | Observations of the Ramsauer-Townsend effect in quaternionic quantum mechanics. European Physical Journal C, 2017, 77, 1.  | 3.9 | 23        |
| 6  | New deformed Heisenberg algebra with reflection operator. European Physical Journal Plus, 2021, 136, 1.  | 2.6 | 20        |
| 7  | On the q-analog of the Laplace transform. Russian Journal of Mathematical Physics, 2014, 21, 156-168.  | 1.5 | 19        |
| 8  | Investigation of DKP equation for spin-zero system in the presence of GÃ¶del-type background space-time. European Physical Journal C, 2018, 78, 1.   | 3.9 | 18        |
| 9  | Quantum mechanics on (anti)-de Sitter background II: Ramsauer-Townsend effect and WKB method. Modern Physics Letters A, 2018, 33, 1850150.   | 1.2 | 16        |
| 10 | Classical mechanics in the de Sitter space. Journal of the Korean Physical Society, 2017, 71, 13-18.   | 0.7 | 14        |
| 11 | Thermodynamics of the Schwarzschild and Reissner-NordstrÃ¶m black holes under the Snyder-de Sitter model. European Physical Journal C, 2019, 79, 1.  | 3.9 | 14        |
| 12 | q-Deformed Quantum Mechanics Based on the q-Addition. Fortschritte Der Physik, 2019, 67, 1800111.  | 4.4 | 13        |
| 13 | Investigation of the Ramsauer-Townsend effect in q-deformed quantum mechanics and simulation by double Dirac delta potential. European Physical Journal Plus, 2017, 132, 1.  | 2.6 | 11        |
| 14 | DSR-GUP Black Hole based on COW experiment and Einstein-Bohr's photon box. European Physical Journal C, 2020, 80, 1.   | 3.9 | 11        |
| 15 | Fractional damped oscillators and fractional forced oscillators. Journal of the Korean Physical Society, 2014, 64, 186-191.  | 0.7 | 10        |
| 16 | q-Deformed Relativistic Fermion Scattering. Advances in High Energy Physics, 2017, 2017, 1-9.  | 1.1 | 10        |
| 17 | A survey on the Klein-Gordon equation in the GÃ¶del-type space-times. International Journal of Geometric Methods in Modern Physics, 2018, 15, 1850037.   | 2.0 | 10        |
| 18 | The q-deformed Dirac oscillator in the presence of a magnetic field in (1+2)-dimensions in Noncommutative phase space. Journal of the Korean Physical Society, 2017, 70, 557-560.                                    | 0.7 | 9         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | General distribution function for the superstatistics and new superstatistics with non-vanishing $r$ th moments for even $r$ . International Journal of Geometric Methods in Modern Physics, 2018, 15, 1850123. | 2.0 | 9         |
| 20 | The New Type of Extended Uncertainty Principle and Some Applications in Deformed Quantum Mechanics. International Journal of Theoretical Physics, 2019, 58, 2575-2591.  | 1.2 | 9         |
| 21 | Superstatistics of the Dunkl oscillator. Physica A: Statistical Mechanics and Its Applications, 2021, 580, 126154.  | 2.6 | 9         |
| 22 | On the Position Representation of Pedram's Higher Order GUP. International Journal of Theoretical Physics, 2019, 58, 1791-1802.   | 1.2 | 8         |
| 23 | The effect of fractional calculus on the formation of quantum-mechanical operators. Mathematical Methods in the Applied Sciences, 2020, 43, 6950-6967.  | 2.3 | 8         |
| 24 | Truncated exponential polynomials and truncated coherent states. European Physical Journal Plus, 2020, 135, 1.  | 2.6 | 8         |
| 25 | Dunkl's Maxwell equation and Dunkl-electrostatics in a spherical coordinate. Modern Physics Letters A, 2021, 36, 2150127.   | 1.2 | 8         |
| 26 | Electrostatics with reflection symmetry and exact solution of the Dunkl-Laplace equation in cylindrical coordinates. Journal of the Korean Physical Society, 2016, 68, 379-382.                                 | 0.7 | 7         |
| 27 | Deformed classical mechanics with $\hat{L}_{\pm}$ -deformed translation symmetry and anomalous diffusion. Modern Physics Letters B, 2019, 33, 1950368.  | 1.9 | 7         |
| 28 | Modified Anti Snyder Model with Minimal Length, Momentum Cutoff and Convergent Partition Function. International Journal of Theoretical Physics, 2019, 58, 2267-2281.   | 1.2 | 7         |
| 29 | $f$ -Deformed Boson Algebra Related to Gentile Statistics. International Journal of Theoretical Physics, 2017, 56, 1746-1756.   | 1.2 | 6         |
| 30 | Statistical physics when the minimum temperature is not absolute zero. Modern Physics Letters B, 2018, 32, 1850123.   | 1.9 | 6         |
| 31 | Extended uncertainty principle and thermodynamics. International Journal of Modern Physics A, 2019, 34, 1950041.  | 1.5 | 6         |
| 32 | $q$ -deformed Gamma function, $q$ -deformed probability distributions and $q$ -deformed statistical physics based on Tsallis's $q$ -exponential function. European Physical Journal Plus, 2019, 134, 1.         | 2.6 | 5         |
| 33 | $q$ -Deformed Tamm's Dancoff oscillators: Coherent state and thermostatics. International Journal of Modern Physics B, 2014, 28, 1450130.   | 2.0 | 4         |
| 34 | Dynamics of a Particle in a Viscoelastic Medium with Conformable Derivative. International Journal of Theoretical Physics, 2017, 56, 851-862.   | 1.2 | 4         |
| 35 | Generalized pair coherent states and non-classical properties. European Physical Journal Plus, 2019, 134, 1.  | 2.6 | 4         |
| 36 | Investigation of relativistic fermions with various energy-momentum distributions in $q$ -deformed approach. International Journal of Modern Physics A, 2019, 34, 1950165.                                      | 1.5 | 4         |

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|----|---|-----|-----------|
| 37 | Two Mode Superposition of Truncated Coherent States: Entanglement and Non-Classical Properties. International Journal of Theoretical Physics, 2020, 59, 1069-1080.  | 1.2 | 4         |
| 38 | Comparison of three types of superstatistics, superstatistic thermodynamic relations and paramagnet model. Physica A: Statistical Mechanics and Its Applications, 2021, 568, 125729.                            | 2.6 | 4         |
| 39 | Doubly superstatistics with bivariate modified Dirac delta distribution. Physica A: Statistical Mechanics and Its Applications, 2020, 554, 124712.  | 2.6 | 4         |
| 40 | Generalized fermion algebra. Modern Physics Letters A, 2014, 29, 1450045.   | 1.2 | 3         |
| 41 | Step potential problem and harmonic oscillator problem in the minimum length quantum mechanics. Modern Physics Letters A, 2015, 30, 1550096.  | 1.2 | 3         |
| 42 | IR aspect of quantum mechanics with minimal momentum. Journal of the Korean Physical Society, 2017, 70, 353-357.  | 0.7 | 3         |
| 43 | Scattering study of a modified cusp potential in conformable fractional formalism. Journal of the Korean Physical Society, 2017, 70, 348-352.   | 0.7 | 3         |
| 44 | A correct way to determine the mean occupation numbers for the q-deformed boson algebras. European Physical Journal Plus, 2019, 134, 1.   | 2.6 | 3         |
| 45 | DSR-GLUP, maximally localized state, and black hole thermodynamics. Progress of Theoretical and Experimental Physics, 2019, 2019, .   | 6.6 | 3         |
| 46 | $\hat{T}$ -deformed boson algebra based on $\hat{T}$ -deformed addition and non-classical properties of $\hat{T}$ -deformed coherent states. Physica Scripta, 2020, 95, 035106.                                 | 2.5 | 3         |
| 47 | Possible non-additive entropy based on the $\alpha$ -deformed addition. European Physical Journal Plus, 2020, 135, 1.   | 2.6 | 3         |
| 48 | q-Deformed Coherent States for q-Deformed Photon by Using the Tsallis's q-Deformed Exponential Function in the Non-Extensive Thermodynamics. International Journal of Theoretical Physics, 2021, 60, 1109-1126. | 1.2 | 3         |
| 49 | Investigation of Some Quantum Mechanics Problems with $\hat{p}$ -Translation Symmetry. International Journal of Theoretical Physics, 2022, 61, 1.   | 1.2 | 3         |
| 50 | SOME NEW PROPERTIES CONCERNING THE q-DEFORMED CALCULUS AND THE q-DEFORMATION OF THE DIFFUSION EQUATION. Modern Physics Letters A, 2013, 28, 1350100.  | 1.2 | 2         |
| 51 | New q-Deformed Oscillator Algebra and Thermodynamic Model. International Journal of Theoretical Physics, 2014, 53, 426-434.   | 1.2 | 2         |
| 52 | New $q$ -Hermite polynomials: characterization, operators algebra and associated coherent states. Fortschritte Der Physik, 2015, 63, 42-53.   | 4.4 | 2         |
| 53 | Some quantum mechanical solutions in nonrelativistic anti-Snyder framework. International Journal of Modern Physics A, 2017, 32, 1750170.   | 1.5 | 2         |
| 54 | Polychronakos statistics and $\hat{p}$ -deformed Bose condensation of $\hat{p}$ -bosons. Modern Physics Letters B, 2018, 32, 1850052.   | 1.9 | 2         |

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|----|--|-----|-----------|
| 55 | Coherent States of the Generalized Heisenberg Algebra with $\mathbb{R}^k$ Isolated States. Few-Body Systems, 2019, 60, 1.  | 1.5 | 2         |
| 56 | q-deformed Quantum Mechanics with q-translation Symmetry and Supersymmetric q-deformed Quantum Mechanics. Few-Body Systems, 2020, 61, 1.   | 1.5 | 2         |
| 57 | Deformation of the Classical Mechanics by Using the q-Derivative Emerging in the Non-extensive Statistical Mechanics. International Journal of Theoretical Physics, 2013, 52, 3762-3770.           | 1.2 | 1         |
| 58 | Generalized q-deformed Tamm-Dancoff oscillator algebra and associated coherent states. Journal of Mathematical Physics, 2014, 55, 081702.  | 1.1 | 1         |
| 59 | Generalized Uncertainty Relations in the Non-commutative Plane. International Journal of Theoretical Physics, 2015, 54, 3350-3358.   | 1.2 | 1         |
| 60 | Two Dimensional Non-commutative Space and Rydberg Atom Model. International Journal of Theoretical Physics, 2015, 54, 1840-1849.   | 1.2 | 1         |
| 61 | Generalized coherent states for a generalization of the harmonic oscillator. Modern Physics Letters A, 2015, 30, 1550079.  | 1.2 | 1         |
| 62 | On the exact solutions of the damped harmonic oscillator with a time-dependent damping constant and a time-dependent angular frequency. Journal of the Korean Physical Society, 2015, 67, 404-408. | 0.7 | 1         |
| 63 | Classical Dynamics Based on the Minimal Length Uncertainty Principle. International Journal of Theoretical Physics, 2016, 55, 825-836.   | 1.2 | 1         |
| 64 | Parity-dependent non-commutative quantum mechanics. Modern Physics Letters A, 2017, 32, 1750009.   | 1.2 | 1         |
| 65 | Two different interpretations of q-boson algebra and a new q-deformed statistical physics. Physica Scripta, 2019, 94, 115001.  | 2.5 | 1         |
| 66 | Superstatistics with symmetric distribution function: Discrete and continuous local temperatures. Modern Physics Letters B, 2019, 33, 1950140.   | 1.9 | 1         |
| 67 | Even and Odd Coherent States of Wigner Algebra. International Journal of Theoretical Physics, 2020, 59, 2924-2938.   | 1.2 | 1         |
| 68 | Deformed Boson Algebra with Parity Operator and Non-classical Properties of Coherent States. Few-Body Systems, 2021, 62, 1.  | 1.5 | 1         |
| 69 | Modified Dirac delta function and modified dirac delta potential in the quantum mechanics. European Physical Journal Plus, 2022, 137, 1.   | 2.6 | 1         |
| 70 | Microcanonical ensemble based on the superstatistics with the free Hamiltonian as a stochastic variable. European Physical Journal Plus, 2022, 137, .  | 2.6 | 1         |
| 71 | The Q-deformed Oscillator Algebra with an Integer Number Eigenvalue and a Half Odd Integer Number Eigenvalue. International Journal of Theoretical Physics, 2014, 53, 2451-2457.                   | 1.2 | 0         |
| 72 | A polynomial class of $u(2)$ algebras. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1560025.  | 2.0 | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Minimal Bosonization of Supersymmetry with $Z_p$ -graded Parity. Fortschritte Der Physik, 2015, 63, 331-336.  | 4.4 | 0         |
| 74 | Modified $q$ -deformed Tamm-Dancoff oscillators as a model for vibrations of polyatomic molecule. Journal of Mathematical Chemistry, 2015, 53, 200-206.   | 1.5 | 0         |
| 75 | Modified Pauli matrix and spin algebra from the $Z_2$ -decomposition of the parafermionic Fock space. Modern Physics Letters A, 2015, 30, 1550022.  | 1.2 | 0         |
| 76 | Relation of the nonlinear Heisenberg algebras in two dimensions with linear ones. Iranian Physical Journal, 2015, 9, 201-206.   | 1.2 | 0         |
| 77 | Factorization in the quantum mechanics with the generalized uncertainty principle. Modern Physics Letters A, 2015, 30, 1550117.   | 1.2 | 0         |
| 78 | Quantum optical electromagnetic field and Rabi oscillation in time-varying medium. Journal of the Korean Physical Society, 2016, 69, 708-715.   | 0.7 | 0         |
| 79 | Bose Description of the Deformed Parabose Oscillator with $Z_p$ -Graded Reflection Symmetry. International Journal of Theoretical Physics, 2016, 55, 1593-1600.   | 1.2 | 0         |
| 80 | Generalized Uncertainty Relation in the Non-commutative Quantum Mechanics. International Journal of Theoretical Physics, 2016, 55, 2989-3000.   | 1.2 | 0         |
| 81 | Two Phases of the Non-Commutative Quantum Mechanics with the Generalized Uncertainty Relations. International Journal of Theoretical Physics, 2016, 55, 2174-2181.  | 1.2 | 0         |
| 82 | On the $q$ -deformed circular imaginary unit and hyperbolic imaginary unit: $q$ -deformed rotation in two dimension and $q$ -deformed special relativity in $1 + 1$ dimension. International Journal of Geometric Methods in Modern Physics, 2017, 14, 1750057. | 2.0 | 0         |
| 83 | Bose description of the generalized Pauli spin operators and para super symmetry. International Journal of Geometric Methods in Modern Physics, 2017, 14, 1750059.  | 2.0 | 0         |
| 84 | A quantum particle in a moving finite harmonic potential. Journal of Mathematical Chemistry, 2017, 55, 864-872.   | 1.5 | 0         |
| 85 | $\hat{p}$ -Deformed Photon and Jaynes-Cummings Model. International Journal of Theoretical Physics, 2018, 57, 2802-2813.  | 1.2 | 0         |
| 86 | Truncated $q$ -deformed fermion algebras and phase transition. Pramana - Journal of Physics, 2019, 92, 1.   | 1.8 | 0         |
| 87 | Wigner algebra in a unit circle and deformed coherent states. Physica Scripta, 2019, 94, 105102.  | 2.5 | 0         |
| 88 | Parafermion theory from the $q$ -deformed algebra with $q$ a root of unity. International Journal of Geometric Methods in Modern Physics, 2020, 17, .   | 2.0 | 0         |
| 89 | Multi-dimensional $q$ -deformed bosonic Newton oscillators and the related $q$ -calculus, $q$ -coherent states, and Hermite $q$ -polynomials. Journal of Mathematical Physics, 2021, 62, 033505.  | 1.1 | 0         |
| 90 | The $q$ -boson Algebra and $su_q(2)$ Algebra Based on $q$ -deformed Binary Operations. International Journal of Theoretical Physics, 2021, 60, 2102-2114.   | 1.2 | 0         |

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|----|--|-----|-----------|
| 91 | Z <sub>p</sub> -Graded Wigner Algebra : Coherent States and Thermodynamics. International Journal of Theoretical Physics, 2021, 60, 2254-2271. | 1.2 | 0         |
| 92 | Scattering state study of fermions due to q-deformed Dirac delta potential. Europhysics Letters, 0, , .  | 2.0 | 0         |