

Hossein Fakhri

List of Publications by Year in descending order

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all docs

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docs citations

65
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#	ARTICLE	IF	CITATIONS
1	Left-covariant first order differential calculus on quantum Hopf supersymmetry algebra. Journal of Mathematical Physics, 2021, 62, 031702.	0.5	0
2	q-Cat states revisited: two families in a Fock representation space of q-oscillator algebra with different nonclassical behaviors. European Physical Journal Plus, 2021, 136, 1.	1.2	2
3	Coherent states attached to the quantum disc algebra and their associated polynomials. International Journal of Geometric Methods in Modern Physics, 2021, 18, 2150078.	0.8	2
4	Energy levels and their degeneracies for two-ring Ising chains of spins- $\frac{1}{2}$ with NN and NNN couplings: spin frustration of ferromagnetic and antiferromagnetic orders. European Physical Journal Plus, 2021, 136, 1.	1.2	1
5	The Jaynes-Cummings model of a two-level atom in a single-mode para-Bose cavity field. Scientific Reports, 2021, 11, 22861.	1.6	16
6	Two-photon Jaynes-Cummings model: a two-level atom interacting with the para-Bose field. Quantum Information Processing, 2021, 20, 1.	1.0	5
7	Triplet q-cat states of the Biedenharn-Macfarlane q-oscillator with $q > 1$. Quantum Information Processing, 2020, 19, 1.	1.0	5
8	Noncommutative photon-added squeezed vacuum states. Modern Physics Letters A, 2020, 35, 2050167.	0.5	5
9	Approach of the continuous q-Hermite polynomials to x-representation of q-oscillator algebra and its coherent states. International Journal of Geometric Methods in Modern Physics, 2020, 17, 2050021.	0.8	3
10	The quantum group $SL_q(2)$ and quantum algebra $U_q(sl_2)$ based on a new associative multiplication on 2×2 matrices. Journal of Mathematical Physics, 2020, 61, 063504.	0.5	4
11	Nonclassical properties of two families of q-coherent states in the Fock representation space of q-oscillator algebra. European Physical Journal Plus, 2020, 135, 1.	1.2	5
12	Partition function and energy spectrum for a three-ring Ising chain with even number of spins- $\frac{1}{2}$. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 083201.	0.9	1
13	$GL_{r,s}(n)$ -Covariant Differential Calculi on the Quantum n-Space. Advances in Applied Clifford Algebras, 2019, 29, 1.	0.5	1
14	Exact solutions for the ferromagnetic and antiferromagnetic two-ring Ising chains of spin-1/2. Physica A: Statistical Mechanics and Its Applications, 2019, 523, 557-569.	1.2	4
15	A reducible Weil representation of $sp(4)$ realized by differential operators in the space of smooth functions on H^2/\mathbb{Z} . Journal of Mathematical Physics, 2018, 59, .	0.5	1
16	Fermionic oscillator realization of the Lie algebras $sp(2k)$ with $k \geq 2$. European Physical Journal Plus, 2018, 133, 1.	1.2	0
17	Arik-Coon q-oscillator cat states on the noncommutative complex plane \hat{a}, \hat{q}^{-1} and their nonclassical properties. International Journal of Geometric Methods in Modern Physics, 2017, 14, 1750060.	0.8	9
18	q-coherent states associated with the noncommutative complex plane \hat{a}, \hat{q}^{-1} . Annals of Physics, 2017, 387, 14-28.	1.0	10

#	ARTICLE	IF	CITATIONS
19	Nonclassical properties of the Arikâ€œCoon qâˆ”1-oscillator coherent states on the noncommutative complex plane \hat{a}_{q} . International Journal of Geometric Methods in Modern Physics, 2017, 14, 1750165.	0.8	6
20	Spherical Harmonics $Y_{l,m}$. http://www.w3.org/1998/Math/MathML id="M1"><mml:msubsup><mml:mrow><mml:mi>Y</mml:mi></mml:mrow><mml:mrow><mml:mi>l</mml:mi></mml:mrow><mml:mrow><mml:mi>m</mml:mi></mml:mrow></mml:msubsup></mml:mrow><mml:mi>âˆ—</mml:mi></mml:mrow><mml:mi>âˆ—</mml:mi></mml:mrow></mml:mrow></mml:math> Tj ETQq0 0 0 rgBT/Overlock	0.5	0
21	The symmetric q-oscillator algebra: q-coherent states, q-Bargmannâ€œFock realization and continuous q-Hermite polynomials with $0 < q < 1$. International Journal of Geometric Methods in Modern Physics, 2016, 13, 1650028.	0.8	7
22	sl(2)-modules bysl(2)-coherent states. Journal of Mathematical Physics, 2016, 57, 091704.	0.5	5
23	From the Wignerâ€œEckart theorem to the Hilbertâ€œSchmidt scalar product for an adjoint representation of the quantum algebra $U_q(\mathfrak{su}(2))$. International Journal of Geometric Methods in Modern Physics, 2016, 13, 1650127.	0.8	0
24	Right and left S_q -coherent states. http://www.w3.org/1998/Math/MathML altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>S</mml:mi><mml:msub><mml:mrow><mml:mi>U</mml:mi></mml:mrow></mml:msub><mml:mrow><mml:mi>q</mml:mi></mml:mrow></mml:math> and S_q -coherent states. http://www.w3.org/1998/Math/MathML altimg="si2.gif" display="inline" overflow="scroll"><mml:mi>S</mml:mi><mml:msub><mml:mrow><mml:mi>U</mml:mi></mml:mrow></mml:msub><mml:mrow><mml:mi>q</mml:mi></mml:mrow></mml:math>	0.7	4
25	q-coherent and q-cat states of the Biedenharn-Macfarlane q -oscillator algebra. http://www.w3.org/1998/Math/MathML altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>q</mml:mi></mml:math>-coherent and q -cat states of the Biedenharn-Macfarlane q -oscillator algebra.	1.0	23
26	Gazeau-Klauder coherent states for the partner potentials of the trigonometric symmetric scarf type. European Physical Journal Plus, 2016, 131, 1.	1.2	1
27	An Uncertainty Relation for the Orbital Angular Momentum Operator. Foundations of Physics, 2016, 46, 1062-1073.	0.6	5
28	Hilbert-Schmidt Inner Product for an Adjoint Representation of the Quantum Algebra $U_q(\mathfrak{su}(2))$. http://www.w3.org/2001/XMLSchema altimg="si1.gif" overflow="scroll" 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:tbl="http://www.elsevier.com/xml/common/table/dtd"/>	0.4	4
29	Scalar product for the tensor operators of the quantum algebra $U_q(\mathfrak{su}(2))$ by the Wignerâ€œEckart theorem. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1550107.	0.8	4
30	First (fuzzy) Hopf map from irreps of SU(2). Open Physics, 2013, 11, 474-479.	0.8	0
31	The minimum-uncertainty coherent states for Landau levels. Journal of Mathematical Physics, 2012, 53, .	0.5	17
32	Dynamical and structural symmetries for the highest Landau levels on the AdS 2. Open Physics, 2012, 10, .	0.8	0
33	From the generalized uncertainty relations on fuzzy AdS 2 to the Poincaré geometry. European Physical Journal C, 2012, 72, 1.	1.4	0
34	Dirac operators on the fuzzyAdS2with the spins 1/2 and 1. Journal of Mathematical Physics, 2011, 52, 103508.	0.5	14
35	Entanglement via permutation symmetry and reflection invariance of angular momentum algebra. European Physical Journal D, 2011, 61, 253-259.	0.6	2
36	The remarkable properties of the associated Romanovski functions. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 195205.	0.7	6

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37	Spherical harmonics: coherent states constructed by the second lowest and second highest bases of $su(1, 1)$ Lie algebra. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 085301.	0.7	4
38	MONOPOLES OVER FUZZY TWO-SPHERE BY ONE SEQUENCE OF THE IRREPS OF $SU(2)$. <i>Modern Physics Letters A</i> , 2011, 26, 2973-2981.	0.5	2
39	A Weil Representation of $sp(4)$ Realized by Differential Operators in the Space of Smooth Functions on $S^2 \times S^1$. <i>Journal of Nonlinear Mathematical Physics</i> , 2010, 17, 137.	0.8	5
40	GENERALIZED COHERENT STATES FOR THE SPHERICAL HARMONICS $Y_{\{m\}}^{\{m\}}(\theta, \phi)$. <i>International Journal of Modern Physics A</i> , 2010, 25, 2165-2170.	0.5	8
41	Landau levels as a limiting case of a model with the morse-like magnetic field. <i>Reports on Mathematical Physics</i> , 2010, 66, 299-310.	0.4	12
42	Comments on "Barut-Girardello Coherent States for the Parabolic Cylinder Functions". <i>International Journal of Theoretical Physics</i> , 2009, 48, 369-372.	0.5	0
43	Approach of the associated Laguerre functions to the $su(1,1)$ coherent states for some quantum solvable models. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 1228-1236.	1.0	16
44	Coherency of $su(1,1)$ -Barut-Girardello type and entanglement for spherical harmonics. <i>Journal of Mathematical Physics</i> , 2009, 50, 052104.	0.5	18
45	Spectrum-Generating Symmetries for the Superpotentials $A \cot \theta$, and $B \tanh \theta$. <i>International Journal of Theoretical Physics</i> , 2008, 47, 2625-2634.	0.5	0
46	Quantum solvable models with $gl(2,c)$ Lie algebra symmetry embedded into the extension of unitary parasupersymmetry. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 5511-5523.	0.7	1
47	Ladder operators and recursion relations for the associated Bessel polynomials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 358, 345-353.	0.9	6
48	BEYOND UNITARY PARASUPERSYMMETRY FROM THE VIEWPOINT OF h_3 AND h_4 HEISENBERG ALGEBRAS. <i>Modern Physics Letters A</i> , 2006, 21, 2303-2312.	0.5	1
49	Supersymmetry approaches to the radial bound states of the hydrogen-like atoms. <i>International Journal of Quantum Chemistry</i> , 2005, 101, 291-304.	1.0	14
50	REPRESENTATION OF THE HEISENBERG ALGEBRA h_4 BY THE LOWEST LANDAU LEVELS AND THEIR COHERENT STATES. <i>Modern Physics Letters A</i> , 2005, 20, 2295-2303.	0.5	1
51	$N = 2$ SUPERSYMMETRIES FOR QUANTUM STATES OF THE 1D WOODS-SAXON AND PERIODIC SCARF POTENTIALS. <i>International Journal of Modern Physics A</i> , 2005, 20, 1419-1440.	0.5	1
52	$su(1, 1)$ -Barut-Girardello coherent states for Landau levels. <i>Journal of Physics A</i> , 2004, 37, 5203-5210.	1.6	24
53	Shape invariance and ladder equations for the associated hypergeometric functions. <i>Journal of Physics A</i> , 2004, 37, 3429-3442.	1.6	16
54	Ladder operators for the associated Laguerre functions. <i>Journal of Physics A</i> , 2004, 37, 7499-7507.	1.6	12

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55	Embedding of Dynamical Symmetry Groups $U(1, 1)$ and $U(2)$ of a Free Particle on AdS_2 and S^2 into Parasupersymmetry Algebra. International Journal of Theoretical Physics, 2004, 43, 457-476.	0.5	8
56	Shape invariance symmetries for quantum states of the superpotentials $A \tanh^2 \frac{y}{A} + B/A$ and $\hat{A}^2 \cot^2 \frac{y}{A} + B \csc^2 \frac{y}{A}$. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 324, 366-377.	0.9	14
57	Generalized Klauder-Perelomov and Gazeau-Klauder coherent states for Landau levels. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 313, 243-251.	0.9	23
58	Barut-Girardello coherent states for the Morse potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 310, 1-8.	0.9	30
59	ON THE GENERALIZED UNITARY PARASUPERSYMMETRY ALGEBRA OF BECKERS-DEBERGH. International Journal of Modern Physics A, 2003, 18, 939-955.	0.5	13
60	Dirac operator on fuzzy AdS_2 . Journal of High Energy Physics, 2003, 2003, 003-003.	1.6	23
61	KLAUDER-PERELOMOV AND GAZEAU-KLAUDER COHERENT STATES FOR SOME SHAPE INVARIANT POTENTIALS. Modern Physics Letters A, 2002, 17, 1701-1712.	0.5	26
62	Master function approach to quantum solvable models on $SL(2, c)$ and $SL(2, c)/GL(1, c)$ manifolds. Journal of Mathematical Physics, 2000, 41, 505-546.	0.5	8
63	Parasupersymmetry and Shape Invariance in Differential Equations of Mathematical Physics and Quantum Mechanics. Annals of Physics, 1998, 262, 260-276.	1.0	67
64	Supersymmetry and shape invariance in differential equations of mathematical physics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 230, 164-170.	0.9	61