Ruibin B Zhang

List of Publications by Year
in descending order

		331670	414414
109 papers	**1,498** citations	**21** h-index	**32** g-index
110 all docs	**110** docs citations	**110** times ranked	**326** citing authors

#	Article	IF	Citations
1	THE SECOND FUNDAMENTAL THEOREM OF INVARIANT THEORY FOR THE ORTHOSYMPLECTIC SUPERGROUP. Nagoya Mathematical Journal, 2021, 242, 52-76.	0.8	1
2	First fundamental theorems of invariant theory for quantum supergroups. European Journal of Mathematics, 2020, 6, 928-976.	0.5	3
3	Degenerate quantum general linear groups. Advances in Theoretical and Mathematical Physics, 2020, 24, 1375-1422.	0.6	1
4	Borelic pairs for stratified algebras. Advances in Mathematics, 2019, 345, 53-115.	1.1	7
5	Temperleyâ€"Lieb algebras at roots of unity, a fusion category and the Jones quotient. Mathematical Research Letters, 2019, 26, 121-158.	0.5	2
6	Invariants of the special orthogonal group and an enhanced Brauer category. L'Enseignement Mathematique, 2018, 63, 181-200.	0.1	1
7	Quantum correspondences of affine Lie superalgebras. Mathematical Research Letters, 2018, 25, 1009-1036.	0.5	1
8	The First Fundamental Theorem of Invariant Theory for the Orthosymplectic Supergroup. Communications in Mathematical Physics, 2017, 349, 661-702.	2.2	19
9	Invariants of the orthosymplectic Lie superalgebra and super Pfaffians. Mathematische Zeitschrift, 2017, 286, 893-917.	0.9	6
10	Generalised Jantzen filtration of exceptional Lie superalgebras. Israel Journal of Mathematics, 2016, 212, 635-676.	0.8	3
11	Integrable representations of affine A (m , n) and C (m) superalgebras. Journal of Pure and Applied Algebra, 2016, 220, 1434-1450.	0.6	1
12	Integrable representations of the quantum affine special linear superalgebra. Advances in Theoretical and Mathematical Physics, 2016, 20, 553-593.	0.6	1
13	The Brauer category and invariant theory. Journal of the European Mathematical Society, 2015, 17, 2311-2351.	1.4	41
14	Cellularity of certain quantum endomorphism algebras. Pacific Journal of Mathematics, 2015, 279, 11-35.	0.5	6
15	Character and Dimension Formulae for Queer Lie Superalgebra. Communications in Mathematical Physics, 2015, 333, 1465-1481.	2.2	9
16	Serre presentations of Lie superalgebras. Springer INdAM Series, 2014, , 235-280.	0.5	7
17	Invariant integration on orthosymplectic and unitary supergroups. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 095204.	2.1	2
18	Extended PoincarÃ© supersymmetry in three dimensions and supersymmetric anyons. Journal of Mathematical Physics, 2012, 53, 072302.	1.1	0

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19	The second fundamental theorem of invariant theory for the orthogonal group. Annals of Mathematics, 2012, 176, 2031-2054.	4.2	36
20	Generalised Verma modules for the orthosymplectic Lie superalgebra <mml:math 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:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	0.7	8
21	Generalized MICZ-Kepler problems and unitary highest weight modules. Journal of Mathematical Physics, 2011, 52, .	1.1	10
22	Detecting cohomology for Lie superalgebras. Advances in Mathematics, 2011, 228, 2098-2115.	1.1	9
23	A Quantum Analogue of the First Fundamental Theorem of Classical Invariant Theory. Communications in Mathematical Physics, 2011, 301, 131-174.	2.2	22
24	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi mathvariant="fraktur">u</mml:mi></mml:math>-Cohomology formula for unitarizable modules over general linear superalgebras. Journal of Algebra, 2011, 327, 50-70.	0.7	3
25	Gravitational collapse of spherically symmetric stars inÂnoncommutative general relativity. European Physical Journal C, 2010, 69, 271-279.	3.9	4
26	Quantum codes from Hadamard matrices. Linear and Multilinear Algebra, 2010, 58, 847-854.	1.0	2
27	PROJECTIVE MODULE DESCRIPTION OF EMBEDDED NONCOMMUTATIVE SPACES. Reviews in Mathematical Physics, 2010, 22, 507-531.	1.7	2
28	A Temperleyâ€"Lieb Analogue for the BMW Algebra. , 2010, , 155-190.		12
29	Unitary highest weight representations of quantum general linear superalgebra. Journal of Algebra, 2009, 321, 3568-3593.	0.7	9
30	Exact solutions of noncommutative vacuum Einstein field equations and plane-fronted gravitational waves. European Physical Journal C, 2009, 64, 439.	3.9	9
31	Quantum deformations of Schwarzschild and Schwarzschildâ€"de Sitter spacetimes. Classical and Quantum Gravity, 2009, 26, 085014.	4.0	12
32	On Endomorphisms of Quantum Tensor Space. Letters in Mathematical Physics, 2008, 86, 209-227.	1.1	8
33	Orthosymplectic Lie Superalgebras in Superspace Analogues of Quantum Kepler Problems. Communications in Mathematical Physics, 2008, 280, 545-562.	2.2	14
34	Differential equations in vertex algebras and simple modules for the Lie algebra of vector fields on a torus. Advances in Mathematics, 2008, 218, 1972-2004.	1.1	23
35	Riemannian geometry of noncommutative surfaces. Journal of Mathematical Physics, 2008, 49, .	1.1	18
36	Noncommutative fields and actions of twisted PoincarÃ© algebra. Journal of Mathematical Physics, 2008, 49, 042302.	1.1	16

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37	Super duality and Kazhdan-Lusztig polynomials. Transactions of the American Mathematical Society, 2008, 360, 5883-5924.	0.9	29
38	Equivariant vector bundles on quantum homogeneous spaces. Mathematical Research Letters, 2008, 15, 297-307.	0.5	2
39	Cohomology of Lie superalgebras ??m|nand ???2|2n. Proceedings of the London Mathematical Society, 2007, 94, 91-136.	1.3	15
40	A Fock space approach to representation theory of osp(2|2n). Transformation Groups, 2007, 12, 209-225.	0.7	6
41	Dual canonical bases for the quantum general linear supergroup. Journal of Algebra, 2006, 304, 1026-1058.	0.7	7
42	Strongly multiplicity free modules for Lie algebras and quantum groups. Journal of Algebra, 2006, 306, 138-174.	0.7	35
43	On Maps Preserving Zero Jordan Products. Monatshefte Fur Mathematik, 2006, 149, 91-101.	0.9	30
44	Resolution of theGL(3) âŠ̌O(3) state labelling problem via theO(3)-invariant Bethe subalgebra of the twisted Yangian. Journal of Physics A, 2005, 38, L219-L226.	1.6	7
45	Integration on Lie supergroups: A Hopf superalgebra approach. Journal of Algebra, 2005, 292, 324-342.	0.7	9
46	Positive energy unitary irreducible representations of the superalgebras osp(1|,2n, â„). Physics of Atomic Nuclei, 2005, 68, 1660-1669.	0.4	18
47	Dual Canonical Bases for the Quantum Special Linear Group and Invariant Subalgebras. Letters in Mathematical Physics, 2005, 73, 165-181.	1.1	3
48	Spherical functions on homogeneous superspaces. Journal of Mathematical Physics, 2005, 46, 043513.	1.1	4
49	Quasi-finite modules for Lie superalgebras of infinite rank. Transactions of the American Mathematical Society, 2005, 358, 403-439.	0.9	8
50	On irreducibility of tensor products of evaluation modules for the quantum affine algebra. Journal of Physics A, 2004, 37, 2385-2399.	1.6	7
51	Title is missing!. International Mathematics Research Notices, 2004, 2004, 31.	1.0	19
52	Character formula for infinite-dimensional unitarizable modules of the general linear superalgebra. Journal of Algebra, 2004, 273, 780-805.	0.7	23
53	Quantum superalgebra representations on cohomology groups of non-commutative bundles. Journal of Pure and Applied Algebra, 2004, 191, 285-314.	0.6	8
54	Multiplicity Free Actions of Quantum Groups and Generalized Howe Duality. Letters in Mathematical Physics, 2003, 64, 255-272.	1.1	19

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55	Quantum enveloping superalgebras and link invariants. Journal of Mathematical Physics, 2002, 43, 2029-2048.	1.1	5
56	The general linear supergroup and its Hopf superalgebra of regular functions. Journal of Algebra, 2002, 254, 44-83.	0.7	17
57	Howe duality and the quantum general linear group. Proceedings of the American Mathematical Society, 2002, 131, 2681-2692.	0.8	20
58	Invariant integration on classical and quantum Lie supergroups. Journal of Mathematical Physics, 2001, 42, 3871-3897.	1.1	10
59	Quantum Group Actions on the Cuntz Algebra. Annales Henri Poincare, 2000, 1, 1097-1122.	1.7	4
60	Colored solutions of the Yang–Baxter equation from representations of Uqgl(2). Journal of Mathematical Physics, 2000, 41, 6529-6543.	1.1	1
61	Structure and representations on the quantum supergroup OSPq(2|2n). Journal of Mathematical Physics, 2000, 41, 6639-6656.	1.1	2
62	Geometry and representations of the quantum supergroup OSPq(1|2n). Journal of Mathematical Physics, 1999, 40, 3175-3190.	1.1	4
63	GEOMETRY OF QUANTUM HOMOGENEOUS VECTOR BUNDLES AND REPRESENTATION THEORY OF QUANTUM GROUPS I. Reviews in Mathematical Physics, 1999, 11, 533-552.	1.7	17
64	VECTOR COHERENT STATES FOR AFFINE SUPERALGEBRAS AND REPRESENTATIONS OF $\widehat{\mathfrak{osp}}(1\|2)$. Modern Physics Letters A, 1999, 14, 2419-2425.	1.2	1
65	En">The Second Cohomology of sl (m | 1) with Coefficients in its Enveloping Algebra is Trivial. Letters in Mathematical Physics, 1999, 47, 33-48.	1.1	5
66	Title is missing!. Letters in Mathematical Physics, 1999, 47, 49-61.	1.1	25
67	Structure and Representations of the Quantum General Linear Supergroup. Communications in Mathematical Physics, 1998, 195, 525-547.	2.2	29
68	Cohomology of Lie superalgebras and their generalizations. Journal of Mathematical Physics, 1998, 39, 5024-5061.	1.1	98
69	Minimal uncertainty states for quantum groups. Journal of Physics A, 1997, 30, L313-L316.	1.6	1
70	Vector coherent state realization of representations of the affine Lie algebra. Journal of Physics A, 1997, 30, 6545-6551.	1.6	2
71	Symmetrizable quantum affine superalgebras and their representations. Journal of Mathematical Physics, 1997, 38, 535-543.	1.1	10
72	Bott–Borel–Weil construction for quantum supergroup Uq(gl(m|n)). Journal of Mathematical Physics, 1997, 38, 3863-3884.	1.1	3

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73	Seiberg–Witten Monopoles in Three Dimensions. Letters in Mathematical Physics, 1997, 39, 213-228.	1.1	11
74	Topological Invariants for Lens Spaces and Exceptional Quantum Groups. Letters in Mathematical Physics, 1997, 41, 1-11.	1.1	1
75	Quantum groups at odd roots of unity and topological invariants of 3-manifolds. Communications in Mathematical Physics, 1996, 182, 619-636.	2.2	3
76	The gl (M|N) super Yangian and its finite-dimensional representations. Letters in Mathematical Physics, 1996, 37, 419-434.	1.1	40
77	LICKORISH INVARIANT AND QUANTUM OSP(1|2). Modern Physics Letters A, 1996, 11, 2397-2406.	1.2	3
78	Representations of super Yangian. Journal of Mathematical Physics, 1995, 36, 3854-3865.	1.1	25
79	The quantum super-Yangian and Casimir operators of Uq(gl(M |N)). Letters in Mathematical Physics, 1995, 33, 263-272.	1.1	11
80	A two-parameter quantization of sl(2/1) and its finite-dimensional representations. Journal of Physics A, 1994, 27, 817-829.	1.6	6
81	Induced module construction for highest-weight representations of Uq(gl(n)) at roots of unity. Journal of Physics A, 1994, 27, L861-L869.	1.6	1
82	Multiparameter link invariants from quantum supergroups. Journal of Mathematical Physics, 1994, 35, 1377-1386.	1.1	6
83	Finite dimensional irreducible representations of the quantum supergroup Uq(gl(m/n)). Journal of Mathematical Physics, 1993, 34, 1236-1254.	1.1	74
84	Finite-dimensional representations of Uq(C(n+1)) at arbitrary q. Journal of Physics A, 1993, 26, 7041-7059.	1.6	11
85	QUANTUM SUPERGROUPS, LINK POLYNOMIALS AND REPRESENTATION OF THE BRAID GENERATOR. Reviews in Mathematical Physics, 1993, 05, 345-361.	1.7	16
86	Eigenvalues of Casimir invariants of Uq(gl(m/n)). Journal of Mathematical Physics, 1993, 34, 6016-6024.	1.1	7
87	Quantum double construction for graded Hopf algebras. Bulletin of the Australian Mathematical Society, 1993, 47, 353-375.	0.5	24
88	A two-parameter quantization of osp(4/2). Journal of Physics A, 1992, 25, L991-L995.	1.6	2
89	Braid group representations arising from quantum supergroups with arbitrary q and link polynomials. Journal of Mathematical Physics, 1992, 33, 3918-3930.	1.1	21
90	Universal L operator and invariants of the quantum supergroup Uq(gl(m/n)). Journal of Mathematical Physics, 1992, 33, 1970-1979.	1.1	28

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91	Finite-dimensional representations of U q (osp(1/2n)) and its connection with quantum so(2n+1). Letters in Mathematical Physics, 1992, 25, 317-325.	1.1	34
92	Graded representations of the Temperleyâ€"Lieb algebra, quantum supergroups, and the Jones polynomial. Journal of Mathematical Physics, 1991, 32, 2605-2613.	1.1	15
93	Universal R matrices and invariants of quantum supergroups. Journal of Mathematical Physics, 1991, 32, 3261-3267.	1.1	20
94	Generalized Gelâ€™fand invariants and characteristic identities for quantum groups. Journal of Mathematical Physics, 1991, 32, 2298-2303.	1.1	37
95	Quantum group invariants and link polynomials. Communications in Mathematical Physics, 1991, 137, 13-27.	2.2	51
96	Generalized Gelfand invariants of quantum groups. Journal of Physics A, 1991, 24, 937-943.	1.6	13
97	Multiparameter dependent solutions of the Yang-Baxter equation. Journal of Physics A, 1991, 24, L535-L543.	1.6	2
98	Invariants of the quantum supergroup Uq(gl(m/1)). Journal of Physics A, 1991, 24, L1327-L1332.	1.6	3
99	LIE BI-SUPERALGEBRAS AND THE GRADED CLASSICAL YANG-BAXTER EQUATION. Reviews in Mathematical Physics, 1991, 03, 223-240.	1.7	18
100	Solutions of the graded classical Yang-Baxter equation and integrable models. Journal of Physics A, 1991, 24, 1185-1197.	1.6	24
101	Classification of star and gradeâ€star representations of C(n+1). Journal of Mathematical Physics, 1990, 31, 1889-1897.	1.1	9
102	Classification of all star and grade star irreps of gl(nâ€—1). Journal of Mathematical Physics, 1990, 31, 1524-1534.	1.1	16
103	Classification of all star irreps of gl(mâ€—n). Journal of Mathematical Physics, 1990, 31, 2552-2559.	1.1	37
104	Unitary representations of basic classical Lie superalgebras. Letters in Mathematical Physics, 1990, 20, 221-229.	1.1	7
105	QUANTUM SUPERGROUPS AND SOLUTIONS OF THE YANG-BAXTER EQUATION. Modern Physics Letters A, 1990, 05, 831-840.	1.2	72
106	Characteristic Features of Vector Chaos. Australian Journal of Physics, 1989, 42, 113.	0.6	0
107	Grassmannian Kaluza-Klein theory and the standard model. Physical Review D, 1988, 38, 2490-2497.	4.7	12
108	Schwinger models in arbitrary gauges and at finite temperature. Journal of Physics G: Nuclear Physics, 1987, 13, L93-L96.	0.8	5

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109	Stochastic quantization and random surface approach to Polyakov string theory. Physical Review D, 1987, 35, 3906-3914.	4.7	2