Shahn Majid

List of Publications by Year
in descending order

155	6,669	71102	91884
papers	citations	41 h-index	69 g-index

158	158	158	1066
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bicrossproduct structure of Îº-Poincare group and non-commutative geometry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 334, 348-354.	4.1	628
2	Physics for algebraists: Non-commutative and non-cocommutative Hopf algebras by a bicrossproduct construction. Journal of Algebra, 1990, 130, 17-64.	0.7	229
3	Quantum group gauge theory on quantum spaces. Communications in Mathematical Physics, 1993, 157, 591-638.	2.2	195
4	Hopf algebras for physics at the Planck scale. Classical and Quantum Gravity, 1988, 5, 1587-1606.	4.0	164
5	Cross Products by Braided Groups and Bosonization. Journal of Algebra, 1994, 163, 165-190.	0.7	150
6	Examples of braided groups and braided matrices. Journal of Mathematical Physics, 1991, 32, 3246-3253.	1.1	146
7	Braided momentum in the qâ€PoincarÃ© group. Journal of Mathematical Physics, 1993, 34, 2045-2058.	1.1	122
8	Braided groups. Journal of Pure and Applied Algebra, 1993, 86, 187-221.	0.6	120
9	Coalgebra Bundles. Communications in Mathematical Physics, 1998, 191, 467-492.	2.2	117
10	WAVES ON NONCOMMUTATIVE SPACEâ€“TIME AND GAMMA-RAY BURSTS. International Journal of Modern Physics A, 2000, 15, 4301-4323.	1.5	113
11	Matched pairs of Lie groups associated to solutions of the Yang-Baxter equations. Pacific Journal of Mathematics, 1990, 141, 311-332.	0.5	110
12	Quasialgebra Structure of the Octonions. Journal of Algebra, 1999, 220, 188-224.	0.7	104
13	Doubles of quasitriangular hopf algebras. Communications in Algebra, 1991, 19, 3061-3073.	0.6	97
14	Free braided differential calculus, braided binomial theorem, and the braided exponential map. Journal of Mathematical Physics, 1993, 34, 4843-4856.	1.1	83
15	Quantum Double for Quasi-Hopf Algebras. Letters in Mathematical Physics, 1998, 45, 1-9.	1.1	80
16	Projective Module Description of the q -Monopole. Communications in Mathematical Physics, 1999, 206, 247-264.	2.2	79
17	Braided groups and algebraic quantum field theories. Letters in Mathematical Physics, 1991, 22, 167-175.	1.1	76
18	Twisting of Quantum Differentials andÂ¶the Planck Scale Hopf Algebra. Communications in Mathematical Physics, 1999, 205, 617-655.	2.2	75

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19	Quantum Geometry of Algebra FactorisationsÂ¶and Coalgebra Bundles. Communications in Mathematical Physics, 2000, 213, 491-521.	2.2	70
20	Quantum and braided-Lie algebras. Journal of Geometry and Physics, 1994, 13, 307-356.	1.4	68
21	Noncommutative Riemannian and Spin Geometry of the Standard q-Sphere. Communications in Mathematical Physics, 2005, 256, 255-285.	2.2	68
22	Braided Groups and Quantum Fourier Transform. Journal of Algebra, 1994, 166, 506-528.	0.7	67
23	Noncommutative harmonic analysis, sampling theory and the Duflo map in 2+1 quantum gravity. Classical and Quantum Gravity, 2008, 25, 045006.	4.0	67
24	Braided matrix structure of the Sklyanin algebra and of the quantum Lorentz group. Communications in Mathematical Physics, 1993, 156, 607-638.	2.2	66
25	Algebraic qâ€integration and Fourier theory on quantum and braided spaces. Journal of Mathematical Physics, 1994, 35, 6802-6837.	1.1	63
26	Hopf quasigroups and the algebraic 7-sphere. Journal of Algebra, 2010, 323, 3067-3110.	0.7	63
27	More examples of bicrossproduct and double cross product Hopf algebras. Israel Journal of Mathematics, 1990, 72, 133-148.	0.8	62
28	Double-bosonization of braided groups and the construction of Uq(g). Mathematical Proceedings of the Cambridge Philosophical Society, 1999, 125, 151-192.	0.4	62
29	Hopf-von Neumann algebra bicrossproducts, Kac algebra bicrossproducts, and the Classical Yang-Baxter Equations. Journal of Functional Analysis, 1991, 95, 291-319.	1.4	61
30	Noncommutative geometry of angular momentum space U(su(2)). Journal of Mathematical Physics, 2003, 44, 107-137.	1.1	60
31	ON q-REGULARIZATION. International Journal of Modern Physics A, 1990, 05, 4689-4696.	1.5	55
32	Clifford algebras obtained by twisting of group algebras. Journal of Pure and Applied Algebra, 2002, 171, 133-148.	0.6	55
33	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mo>â^—</mml:mo></mml:math>-compatible connections in noncommutative Riemannian geometry. Journal of Geometry and Physics, 2011, 61, 95-124.	1.4	55
34	Quantum and braided group Riemannian geometry. Journal of Geometry and Physics, 1999, 30, 113-146.	1.4	53
35	Matched pairs approach to set theoretic solutions of the Yangâ€“Baxter equation. Journal of Algebra, 2008, 319, 1462-1529.	0.7	53
36	Transmutation theory and rank for quantum braided groups. Mathematical Proceedings of the Cambridge Philosophical Society, 1993, 113, 45-70.	0.4	52

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37	qâ€Euclidean space and quantum Wick rotation by twisting. Journal of Mathematical Physics, 1994, 35, 5025-5034.	1.1	52
38	Quantum and braided linear algebra. Journal of Mathematical Physics, 1993, 34, 1176-1196.	1.1	51
39	Classification of bicovariant differential calculi. Journal of Geometry and Physics, 1998, 25, 119-140.	1.4	49
40	Gravity induced from quantum spacetime. Classical and Quantum Gravity, 2014, 31, 035020.	4.0	45
41	Riemannian Geometry of Quantum GroupsÂ¶and Finite Groups with Nonuniversal Differentials. Communications in Mathematical Physics, 2002, 225, 131-170.	2.2	42
42	Braided Lie algebras and bicovariant differential calculi over co-quasitriangular Hopf algebras. Journal of Algebra, 2003, 261, 334-388.	0.7	42
43	Braided cyclic cocycles and nonassociative geometry. Journal of Mathematical Physics, 2004, 45, 3883-3911.	1.1	39
44	q-deformation and semidualization in 3D quantum gravity. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 425402.	2.1	38
45	Quantum groups and noncommutative geometry. Journal of Mathematical Physics, 2000, 41, 3892-3942.	1.1	37
46	Braided groups of Hopf algebras obtained by twisting. Pacific Journal of Mathematics, 1994, 162, 27-44.	0.5	37
47	Quantum Differentials and the q-Monopole Revisited. Acta Applicandae Mathematicae, 1998, 54, 185-232.	1.0	36
48	Semiclassical differential structures. Pacific Journal of Mathematics, 2006, 224, 1-44.	0.5	35
49	Random walk and the heat equation on superspace and anyspace. Journal of Mathematical Physics, 1994, 35, 3753-3760.	1.1	34
50	Noncommutative Riemannian geometry on graphs. Journal of Geometry and Physics, 2013, 69, 74-93.	1.4	34
51	Quasitriangular and Differential Structures on Bicrossproduct Hopf Algebras. Journal of Algebra, 1999, 219, 682-727.	0.7	33
52	The quantum double as quantum mechanics. Journal of Geometry and Physics, 1994, 13, 169-202.	1.4	32
53	Representation-theoretic rank and double hopf algebras. Communications in Algebra, 1990, 18, 3705-3712.	0.6	31
54	Finite Group Factorizations and Braiding. Journal of Algebra, 1996, 181, 112-151.	0.7	31

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55	Gauge theory on nonassociative spaces. Journal of Mathematical Physics, 2005, 46, 103519.	1.1	31
56	Noncommutative model with spontaneous time generation and Planckian bound. Journal of Mathematical Physics, 2005, 46, 103520.	1.1	30
57	Spectral triples from bimodule connections and Chern connections. Journal of Noncommutative Geometry, 2017, 11, 669-701.	0.5	30
58	Câ€statistical quantum groups and Weyl algebras. Journal of Mathematical Physics, 1992, 33, 3431-3444.	1.1	27
59	Cosmological constant from quantum spacetime. Physical Review D, 2015, 91, .	4.7	27
60	Quantisation of Twistor Theory by Cocycle Twist. Communications in Mathematical Physics, 2008, 284, 713-774.	2.2	26
61	Bar Categories and Star Operations. Algebras and Representation Theory, 2009, 12, 103-152.	0.7	26
62	Quantum Riemannian Geometry. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2020, , .	0.9	26
63	Bicrossproduct Structure of the Quantum Weyl Group. Journal of Algebra, 1994, 163, 68-87.	0.7	24
64	Noncommutative Riemannian geometry of the alternating group. Journal of Geometry and Physics, 2002, 42, 259-282.	1.4	23
65	Electromagnetism and gauge theory on the permutation group S3. Journal of Geometry and Physics, 2002, 44, 129-155.	1.4	23
66	Almost Commutative Riemannian Geometry: Wave Operators. Communications in Mathematical Physics, 2012, 310, 569-609.	2.2	23
67	Principle of Representationâ€Theoretic Selfâ€Duality. Physics Essays, 1991, 4, 395-405.	0.4	23
68	*â€structures on braided spaces. Journal of Mathematical Physics, 1995, 36, 4436-4449.	1.1	22
69	On the Fock space for nonrelativistic anyon fields and braided tensor products. Journal of Mathematical Physics, 2004, 45, 3770-3787.	1.1	22
70	Nonassociative Riemannian geometry by twisting. Journal of Physics: Conference Series, 2010, 254, 012002.	0.4	22
71	Quantization by cochain twists and nonassociative differentials. Journal of Mathematical Physics, 2010, 51, .	1.1	22
72	Poissonâ€“Riemannian geometry. Journal of Geometry and Physics, 2017, 114, 450-491.	1.4	22

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73	Quasi-â^— structure on q-PoincarÃ© algebras. Journal of Geometry and Physics, 1997, 22, 14-58.	1.4	20
74	Quantum Spaces Associated to Multipermutation Solutions of Level Two. Algebras and Representation Theory, 2011, 14, 341-376.	0.7	20
75	Quantum gravity on a square graph. Classical and Quantum Gravity, 2019, 36, 245009.	4.0	20
76	Set-theoretic solutions of the Yangâ€“Baxter equation, graphs and computations. Journal of Symbolic Computation, 2007, 42, 1079-1112.	0.8	19
77	Quantum Riemannian geometry and particle creation on the integer line. Classical and Quantum Gravity, 2019, 36, 135011.	4.0	19
78	SOLUTIONS OF THE YANG-BAXTER EQUATIONS FROM BRAIDED-LIE ALGEBRAS AND BRAIDED GROUPS. Journal of Knot Theory and Its Ramifications, 1995, 04, 673-697.	0.3	18
79	Hodge Star as Braided Fourier Transform. Algebras and Representation Theory, 2017, 20, 695-733.	0.7	18
80	Braided-Lie bialgebras. Pacific Journal of Mathematics, 2000, 192, 329-356.	0.5	18
81	Quantum geometry of field extensions. Journal of Mathematical Physics, 1999, 40, 2311-2323.	1.1	17
82	Noncommutative Cohomology and Electromagnetism on (mathbb{C}) q [SL2] at Roots of Unity. Letters in Mathematical Physics, 2002, 60, 221-237.	1.1	17
83	Noncommutative differentials on Poissonâ€“Lie groups and pre-Lie algebras. Pacific Journal of Mathematics, 2016, 284, 213-256.	0.5	17
84	Glueing operation for R-matrices, quantum groups and link-invariants of Hecke type. Mathematical Proceedings of the Cambridge Philosophical Society, 1996, 119, 139-166.	0.4	16
85	Noncommutative Ricci Curvature and Dirac Operator on Cq[SL2] at Roots of Unity. Letters in Mathematical Physics, 2003, 63, 39-54.	1.1	16
86	Poisson-Lie T-DualityÂ¶for Quasitriangular Lie Bialgebras. Communications in Mathematical Physics, 2001, 220, 455-488.	2.2	15
87	Noncommutative spherically symmetric spacetimes at semiclassical order. Classical and Quantum Gravity, 2017, 34, 135013.	4.0	15
88	q-Fuzzy Spheres and Quantum Differentials on B q [SU 2] and U q (su 2). Letters in Mathematical Physics, 2011, 98, 167-191.	1.1	14
89	Duality for generalised differentials on quantum groups. Journal of Algebra, 2015, 439, 67-109.	0.7	14
90	Quantum Bianchi identities via DG categories. Journal of Geometry and Physics, 2018, 124, 350-370.	1.4	14

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91	Classification of digital affine noncommutative geometries. Journal of Mathematical Physics, 2018, 59, 033505.	1.1	13
92	qâ€epsilon tensor for quantum and braided spaces. Journal of Mathematical Physics, 1995, 36, 1991-2007.	1.1	13
93	Anyonic FRT construction. European Physical Journal D, 1994, 44, 1073-1080.	0.4	12
94	CONCEPTUAL ISSUES FOR NONCOMMUTATIVE GRAVITY ON ALGEBRAS AND FINITE SETS. International Journal of Modern Physics B, 2000, 14, 2427-2449.	2.0	12
95	Lie theory and coverings of finite groups. Journal of Algebra, 2013, 389, 137-150.	0.7	12
96	Quasitriangular structure and twisting of the 3D bicrossproduct model. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
97	Generalised noncommutative geometry on finite groups and Hopf quivers. Journal of Noncommutative Geometry, 2019, 13, 1055-1116.	0.5	12
98	Rank of quantized universal enveloping algebras and modular functions. Communications in Mathematical Physics, 1991, 137, 249-262.	2.2	11
99	The braided Heisenberg group. Journal of Mathematical Physics, 1993, 34, 3588-3606.	1.1	11
100	Nonstandard quantum groups and superization. Journal of Mathematical Physics, 1995, 36, 7081-7097.	1.1	11
101	Smooth Dense Subalgebras and Fourier Multipliers on Compact Quantum Groups. Communications in Mathematical Physics, 2018, 362, 761-799.	2.2	11
102	Braided geometry of the conformal algebra. Journal of Mathematical Physics, 1996, 37, 6495-6509.	1.1	10
103	Emergence of Riemannian geometry and the massive graviton. EPJ Web of Conferences, 2014, 71, 00080.	0.3	10
104	Lie theory of finite simple groups and the Roth property. Mathematical Proceedings of the Cambridge Philosophical Society, 2017, 163, 301-340.	0.4	10
105	On the addition of quantum matrices. Journal of Mathematical Physics, 1994, 35, 2617-2632.	1.1	9
106	Quantum and braided diffeomorphism groups. Journal of Geometry and Physics, 1998, 28, 94-128.	1.4	9
107	Quantum Riemannian geometry of phase space and nonassociativity. Demonstratio Mathematica, 2017, 50, 83-93.	1.5	9
108	New quantum groups by double-bosonisation. European Physical Journal D, 1997, 47, 79-90.	0.4	8

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109	Quantum gravity and Riemannian geometry on the fuzzy sphere. Letters in Mathematical Physics, 2021, 111, 1.	1.1	8
110	Quantum gravity on polygons and RÃ—Zn FLRW model [*]. Classical and Quantum Gravity, 2020, 37, 245001.	4.0	8
111	lattice as a Connesâ€“Lott-quantum group model. Journal of Geometry and Physics, 2002, 43, 1-26.	1.4	7
112	Bicrossproduct approach to the Connesâ€“Moscovici Hopf algebra. Journal of Algebra, 2007, 312, 228-256.	0.7	7
113	Some remarks on the quantum double. European Physical Journal D, 1994, 44, 1059-1071.	0.4	6
114	Some comments on bosonisation and biproducts. European Physical Journal D, 1997, 47, 151-171.	0.4	6
115	Fuzzy and discrete black hole models*. Classical and Quantum Gravity, 2021, 38, 145020.	4.0	6
116	Fourier transforms on A/G and knot invariants. Journal of Mathematical Physics, 1990, 31, 924-927.	1.1	5
117	Newtonian gravity on quantum spacetime. EPJ Web of Conferences, 2014, 70, 00082.	0.3	5
118	Digital finite quantum Riemannian geometries. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 115202.	2.1	5
119	Quantum and super-quantum group related to the Alexander-Conway polynomial. Journal of Geometry and Physics, 1993, 11, 437-443.	1.4	4
120	Non-commutative Differential Geometry. , 2017, , 139-176.		4
121	Quantum Koszul formula on quantum spacetime. Journal of Geometry and Physics, 2018, 129, 41-69.	1.4	4
122	Co-double bosonisation and dual bases of c[SL2] and c[SL3]. Journal of Algebra, 2019, 518, 75-118.	0.7	4
123	Geometric Dirac operator on the fuzzy sphere. Letters in Mathematical Physics, 2022, 112, 1.	1.1	4
124	Quantum geodesics on quantum Minkowski spacetime. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 424003.	2.1	4
125	Bicross-Product Structure of Affine Quantum Groups. Letters in Mathematical Physics, 1997, 39, 243-252.	1.1	3
126	Algebraic Approach to Quantum Gravity III: Non-Commmutative Riemannian Geometry. , 2006, , 77-100.		3

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127	On the emergence of the structure of physics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170231.	3.4	3
128	Reconstruction and quantization of Riemannian structures. Journal of Mathematical Physics, 2020, 61, .	1.1	3
129	Quantum double aspects of surface code models. Journal of Mathematical Physics, 2022, 63, 042202.	1.1	3
130	Anyonic lie algebras. European Physical Journal D, 1997, 47, 1241-1250.	0.4	2
131	Some remarks on braided group reconstruction and braided doubles. European Physical Journal D, 1998, 48, 1447-1456.	0.4	2
132	Moduli of quantum Riemannian geometries on â©½4 points. Journal of Mathematical Physics, 2004, 45, 4596-4627.	1.1	2
133	Cartan Calculus for Quantum Differentials on Bicrossproducts. Acta Applicandae Mathematicae, 2004, 84, 193-236.	1.0	2
134	Digital quantum groups. Journal of Mathematical Physics, 2020, 61, .	1.1	2
135	Quantum and braided ZX calculus. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	2
136	Quantum spacetime and physical reality. , 0, , 56-140.		1
137	Liouville theorem for the Yangâ€“Mills selfâ€duality equations. Journal of Mathematical Physics, 1988, 29, 2303-2310.	1.1	1
138	Partial waves for the linearized Yangâ€“Mills equation about a monopole background. Journal of Mathematical Physics, 1989, 30, 1150-1157.	1.1	1
139	On braided zeta functions. Bulletin of Mathematical Sciences, 2011, 1, 379-396.	0.7	1
140	Finite Noncommutative Geometries Related to $mathbb {F}_{p}[x]$. Algebras and Representation Theory, 2020, 23, 251-274.	0.7	1
141	Quantum differentials on cross product Hopf algebras. Journal of Algebra, 2020, 563, 303-351.	0.7	1
142	Noncommutative Physics on Lie Algebras, (â„2) n Lattices and Clifford Algebras. , 2004, , 491-518.		1
143	Differentials on an Algebra. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2020, , 1-82.	0.9	1
144	Quantum Riemannian Structures. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2020, , 565-652.	0.9	1

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145	Fermionic q-Fock space and braided geometry. Journal of Mathematical Physics, 1997, 38, 4845-4853.	1.1	0
146	Braided Line and Counting Fixed Points ofGL(d, ?q). Communications in Algebra, 2003, 31, 2003-2013.	0.6	0
147	Introduction: Quantum Groups and Noncommutative Geometry. Journal of Mathematical Physics, 2004, 45, 3701-3702.	1.1	0
148	Emergence of wave equations from quantum geometry. , 2012, , .		0
149	Hopf Algebras and Their Bicovariant Calculi. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2020, , 83-206.	0.9	0
150	Vector Fields and Differential Operators. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2020, , 485-526.	0.9	0
151	Vector Bundles and Connections. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2020, , 207-292.	0.9	0
152	Quantum Spacetime. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2020, , 653-740.	0.9	0
153	Quantum Principal Bundles and Framings. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2020, , 385-484.	0.9	0
154	Curvature, Cohomology and Sheaves. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2020, , 293-384.	0.9	0
155	Quantum Complex Structures. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2020, , 527-564.	0.9	0