

# Shahn Majid

## List of Publications by Year in descending order

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155  
papers

6,669  
citations

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158  
all docs

158  
docs citations

158  
times ranked

1066  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geometric Dirac operator on the fuzzy sphere. Letters in Mathematical Physics, 2022, 112, 1.	1.1	4
2	Quantum double aspects of surface code models. Journal of Mathematical Physics, 2022, 63, 042202.	1.1	3
3	Quantum geodesics on quantum Minkowski spacetime. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 424003.	2.1	4
4	Quantum gravity and Riemannian geometry on the fuzzy sphere. Letters in Mathematical Physics, 2021, 111, 1.	1.1	8
5	Fuzzy and discrete black hole models*. Classical and Quantum Gravity, 2021, 38, 145020.	4.0	6
6	Finite Noncommutative Geometries Related to $\mathbb{F}_p[x]$ . Algebras and Representation Theory, 2020, 23, 251-274.	0.7	1
7	Digital finite quantum Riemannian geometries. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 115202.	2.1	5
8	Quantum differentials on cross product Hopf algebras. Journal of Algebra, 2020, 563, 303-351.	0.7	1
9	Digital quantum groups. Journal of Mathematical Physics, 2020, 61, .	1.1	2
10	Reconstruction and quantization of Riemannian structures. Journal of Mathematical Physics, 2020, 61, .	1.1	3
11	Quantum Riemannian Geometry. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2020, , .	0.9	26
12	Differentials on an Algebra. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2020, , 1-82.	0.9	1
13	Quantum Riemannian Structures. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2020, , 565-652.	0.9	1
14	Quantum gravity on polygons and $\mathbb{R}^n$ -FLRW model <sup>*</sup> . Classical and Quantum Gravity, 2020, 37, 245001.	4.0	8
15	Hopf Algebras and Their Bicovariant Calculi. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2020, , 83-206.	0.9	0
16	Vector Fields and Differential Operators. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2020, , 485-526.	0.9	0
17	Vector Bundles and Connections. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2020, , 207-292.	0.9	0
18	Quantum Spacetime. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2020, , 653-740.	0.9	0

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19	Quantum Principal Bundles and Framings. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2020, , 385-484.	0.9	0
20	Curvature, Cohomology and Sheaves. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2020, , 293-384.	0.9	0
21	Quantum Complex Structures. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2020, , 527-564.	0.9	0
22	Quantum gravity on a square graph. Classical and Quantum Gravity, 2019, 36, 245009.	4.0	20
23	Quantum Riemannian geometry and particle creation on the integer line. Classical and Quantum Gravity, 2019, 36, 135011.	4.0	19
24	Generalised noncommutative geometry on finite groups and Hopf quivers. Journal of Noncommutative Geometry, 2019, 13, 1055-1116.	0.5	12
25	Co-double bosonisation and dual bases of $u[\mathfrak{sl}_2]$ and $u[\mathfrak{sl}_3]$ . Journal of Algebra, 2019, 518, 75-118.	0.7	4
26	Quantum Koszul formula on quantum spacetime. Journal of Geometry and Physics, 2018, 129, 41-69.	1.4	4
27	Quantum Bianchi identities via DG categories. Journal of Geometry and Physics, 2018, 124, 350-370.	1.4	14
28	Quasitriangular structure and twisting of the 3D bicrossproduct model. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
29	Classification of digital affine noncommutative geometries. Journal of Mathematical Physics, 2018, 59, 033505.	1.1	13
30	On the emergence of the structure of physics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170231.	3.4	3
31	Smooth Dense Subalgebras and Fourier Multipliers on Compact Quantum Groups. Communications in Mathematical Physics, 2018, 362, 761-799.	2.2	11
32	Non-commutative Differential Geometry. , 2017, , 139-176.		4
33	Noncommutative spherically symmetric spacetimes at semiclassical order. Classical and Quantum Gravity, 2017, 34, 135013.	4.0	15
34	Poisson-Riemannian geometry. Journal of Geometry and Physics, 2017, 114, 450-491.	1.4	22
35	Lie theory of finite simple groups and the Roth property. Mathematical Proceedings of the Cambridge Philosophical Society, 2017, 163, 301-340.	0.4	10
36	Hodge Star as Braided Fourier Transform. Algebras and Representation Theory, 2017, 20, 695-733.	0.7	18

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37	Spectral triples from bimodule connections and Chern connections. <i>Journal of Noncommutative Geometry</i> , 2017, 11, 669-701.	0.5	30
38	Quantum Riemannian geometry of phase space and nonassociativity. <i>Demonstratio Mathematica</i> , 2017, 50, 83-93.	1.5	9
39	Noncommutative differentials on Poisson-Lie groups and pre-Lie algebras. <i>Pacific Journal of Mathematics</i> , 2016, 284, 213-256.	0.5	17
40	Cosmological constant from quantum spacetime. <i>Physical Review D</i> , 2015, 91, .	4.7	27
41	Duality for generalised differentials on quantum groups. <i>Journal of Algebra</i> , 2015, 439, 67-109.	0.7	14
42	Emergence of Riemannian geometry and the massive graviton. <i>EPJ Web of Conferences</i> , 2014, 71, 00080.	0.3	10
43	Newtonian gravity on quantum spacetime. <i>EPJ Web of Conferences</i> , 2014, 70, 00082.	0.3	5
44	Gravity induced from quantum spacetime. <i>Classical and Quantum Gravity</i> , 2014, 31, 035020.	4.0	45
45	Noncommutative Riemannian geometry on graphs. <i>Journal of Geometry and Physics</i> , 2013, 69, 74-93.	1.4	34
46	Lie theory and coverings of finite groups. <i>Journal of Algebra</i> , 2013, 389, 137-150.	0.7	12
47	Emergence of wave equations from quantum geometry. , 2012, , .		0
48	Almost Commutative Riemannian Geometry: Wave Operators. <i>Communications in Mathematical Physics</i> , 2012, 310, 569-609.	2.2	23
49	q-Fuzzy Spheres and Quantum Differentials on $B_q[SU(2)]$ and $U_q(su(2))$ . <i>Letters in Mathematical Physics</i> , 2011, 98, 167-191.	1.1	14
50	Quantum Spaces Associated to Multipermutation Solutions of Level Two. <i>Algebras and Representation Theory</i> , 2011, 14, 341-376.	0.7	20
51	$\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ altimg}=\text{"si1.gif"} \text{ display}=\text{"inline"} \text{ overflow}=\text{"scroll"} \rangle \langle \text{mml:mo} \rangle \hat{\wedge} \langle \text{mml:mo} \rangle \langle \text{mml:math} \rangle$ -compatible connections in noncommutative Riemannian geometry. <i>Journal of Geometry and Physics</i> , 2011, 61, 95-124.	1.4	55
52	On braided zeta functions. <i>Bulletin of Mathematical Sciences</i> , 2011, 1, 379-396.	0.7	1
53	Nonassociative Riemannian geometry by twisting. <i>Journal of Physics: Conference Series</i> , 2010, 254, 012002.	0.4	22
54	Hopf quasigroups and the algebraic 7-sphere. <i>Journal of Algebra</i> , 2010, 323, 3067-3110.	0.7	63

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55	Quantization by cochain twists and nonassociative differentials. Journal of Mathematical Physics, 2010, 51, .	1.1	22
56	$q$ -deformation and semidualization in 3D quantum gravity. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 425402.	2.1	38
57	Bar Categories and Star Operations. Algebras and Representation Theory, 2009, 12, 103-152.	0.7	26
58	Quantisation of Twistor Theory by Cocycle Twist. Communications in Mathematical Physics, 2008, 284, 713-774.	2.2	26
59	Matched pairs approach to set theoretic solutions of the Yang-Baxter equation. Journal of Algebra, 2008, 319, 1462-1529.	0.7	53
60	Noncommutative harmonic analysis, sampling theory and the Duflo map in 2+1 quantum gravity. Classical and Quantum Gravity, 2008, 25, 045006.	4.0	67
61	Set-theoretic solutions of the Yang-Baxter equation, graphs and computations. Journal of Symbolic Computation, 2007, 42, 1079-1112.	0.8	19
62	Bicrossproduct approach to the Connes-Moscovici Hopf algebra. Journal of Algebra, 2007, 312, 228-256.	0.7	7
63	Algebraic Approach to Quantum Gravity III: Non-Commutative Riemannian Geometry. , 2006, , 77-100.		3
64	Semiclassical differential structures. Pacific Journal of Mathematics, 2006, 224, 1-44.	0.5	35
65	Noncommutative Riemannian and Spin Geometry of the Standard $q$ -Sphere. Communications in Mathematical Physics, 2005, 256, 255-285.	2.2	68
66	Noncommutative model with spontaneous time generation and Planckian bound. Journal of Mathematical Physics, 2005, 46, 103520.	1.1	30
67	Gauge theory on nonassociative spaces. Journal of Mathematical Physics, 2005, 46, 103519.	1.1	31
68	Moduli of quantum Riemannian geometries on $\hat{\mathbb{C}}^{1/2}$ points. Journal of Mathematical Physics, 2004, 45, 4596-4627.	1.1	2
69	Introduction: Quantum Groups and Noncommutative Geometry. Journal of Mathematical Physics, 2004, 45, 3701-3702.	1.1	0
70	Cartan Calculus for Quantum Differentials on Bicrossproducts. Acta Applicandae Mathematicae, 2004, 84, 193-236.	1.0	2
71	On the Fock space for nonrelativistic anyon fields and braided tensor products. Journal of Mathematical Physics, 2004, 45, 3770-3787.	1.1	22
72	Braided cyclic cocycles and nonassociative geometry. Journal of Mathematical Physics, 2004, 45, 3883-3911.	1.1	39

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73	Noncommutative Physics on Lie Algebras, $(\mathfrak{sl}(2))$ n Lattices and Clifford Algebras. , 2004, , 491-518.		1
74	Noncommutative Ricci Curvature and Dirac Operator on $C_q[SL_2]$ at Roots of Unity. Letters in Mathematical Physics, 2003, 63, 39-54.	1.1	16
75	Braided Lie algebras and bicovariant differential calculi over co-quasitriangular Hopf algebras. Journal of Algebra, 2003, 261, 334-388.	0.7	42
76	Braided Line and Counting Fixed Points of $GL(d, \mathbb{C}_q)$ . Communications in Algebra, 2003, 31, 2003-2013.	0.6	0
77	Noncommutative geometry of angular momentum space $U(\mathfrak{su}(2))$ . Journal of Mathematical Physics, 2003, 44, 107-137.	1.1	60
78	Riemannian Geometry of Quantum Groups and Finite Groups with Nonuniversal Differentials. Communications in Mathematical Physics, 2002, 225, 131-170.	2.2	42
79	Noncommutative Riemannian geometry of the alternating group. Journal of Geometry and Physics, 2002, 42, 259-282.	1.4	23
80	lattice as a Connes-Lott-quantum group model. Journal of Geometry and Physics, 2002, 43, 1-26.	1.4	7
81	Electromagnetism and gauge theory on the permutation group $S_3$ . Journal of Geometry and Physics, 2002, 44, 129-155.	1.4	23
82	Clifford algebras obtained by twisting of group algebras. Journal of Pure and Applied Algebra, 2002, 171, 133-148.	0.6	55
83	Noncommutative Cohomology and Electromagnetism on $(\mathbb{C})_q[SL_2]$ at Roots of Unity. Letters in Mathematical Physics, 2002, 60, 221-237.	1.1	17
84	Poisson-Lie T-Duality for Quasitriangular Lie Bialgebras. Communications in Mathematical Physics, 2001, 220, 455-488.	2.2	15
85	Quantum Geometry of Algebra Factorisations and Coalgebra Bundles. Communications in Mathematical Physics, 2000, 213, 491-521.	2.2	70
86	WAVES ON NONCOMMUTATIVE SPACE-TIME AND GAMMA-RAY BURSTS. International Journal of Modern Physics A, 2000, 15, 4301-4323.	1.5	113
87	CONCEPTUAL ISSUES FOR NONCOMMUTATIVE GRAVITY ON ALGEBRAS AND FINITE SETS. International Journal of Modern Physics B, 2000, 14, 2427-2449.	2.0	12
88	Quantum groups and noncommutative geometry. Journal of Mathematical Physics, 2000, 41, 3892-3942.	1.1	37
89	Braided-Lie bialgebras. Pacific Journal of Mathematics, 2000, 192, 329-356.	0.5	18
90	Quantum and braided group Riemannian geometry. Journal of Geometry and Physics, 1999, 30, 113-146.	1.4	53

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91	Twisting of Quantum Differentials and the Planck Scale Hopf Algebra. Communications in Mathematical Physics, 1999, 205, 617-655.	2.2	75
92	Projective Module Description of the $q$ -Monopole. Communications in Mathematical Physics, 1999, 206, 247-264.	2.2	79
93	Quasitriangular and Differential Structures on Bicrossproduct Hopf Algebras. Journal of Algebra, 1999, 219, 682-727.	0.7	33
94	Quasialgebra Structure of the Octonions. Journal of Algebra, 1999, 220, 188-224.	0.7	104
95	Quantum geometry of field extensions. Journal of Mathematical Physics, 1999, 40, 2311-2323.	1.1	17
96	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
97	Quantum Differentials and the $q$ -Monopole Revisited. Acta Applicandae Mathematicae, 1998, 54, 185-232.	1.0	36
98	Quantum Double for Quasi-Hopf Algebras. Letters in Mathematical Physics, 1998, 45, 1-9.	1.1	80
99	Some remarks on braided group reconstruction and braided doubles. European Physical Journal D, 1998, 48, 1447-1456.	0.4	2
100	Coalgebra Bundles. Communications in Mathematical Physics, 1998, 191, 467-492.	2.2	117
101	Classification of bicovariant differential calculi. Journal of Geometry and Physics, 1998, 25, 119-140.	1.4	49
102	Quantum and braided diffeomorphism groups. Journal of Geometry and Physics, 1998, 28, 94-128.	1.4	9
103	Fermionic $q$ -Fock space and braided geometry. Journal of Mathematical Physics, 1997, 38, 4845-4853.	1.1	0
104	Bicross-Product Structure of Affine Quantum Groups. Letters in Mathematical Physics, 1997, 39, 243-252.	1.1	3
105	Some comments on bosonisation and biproducts. European Physical Journal D, 1997, 47, 151-171.	0.4	6
106	New quantum groups by double-bosonisation. European Physical Journal D, 1997, 47, 79-90.	0.4	8
107	Anyonic lie algebras. European Physical Journal D, 1997, 47, 1241-1250.	0.4	2
108	Quasi- $\hat{u}$ -structure on $q$ -Poincaré algebras. Journal of Geometry and Physics, 1997, 22, 14-58.	1.4	20

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109	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
110	Finite Group Factorizations and Braiding. Journal of Algebra, 1996, 181, 112-151.	0.7	31
111	Braided geometry of the conformal algebra. Journal of Mathematical Physics, 1996, 37, 6495-6509.	1.1	10
112	*â€œstructures on braided spaces. Journal of Mathematical Physics, 1995, 36, 4436-4449.	1.1	22
113	Nonstandard quantum groups and superization. Journal of Mathematical Physics, 1995, 36, 7081-7097.	1.1	11
114	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
115	qâ€œepsilon tensor for quantum and braided spaces. Journal of Mathematical Physics, 1995, 36, 1991-2007.	1.1	13
116	qâ€œEuclidean space and quantum Wick rotation by twisting. Journal of Mathematical Physics, 1994, 35, 5025-5034.	1.1	52
117	Random walk and the heat equation on superspace and anyspace. Journal of Mathematical Physics, 1994, 35, 3753-3760.	1.1	34
118	Algebraic qâ€œintegration and Fourier theory on quantum and braided spaces. Journal of Mathematical Physics, 1994, 35, 6802-6837.	1.1	63
119	Bicrossproduct Structure of the Quantum Weyl Group. Journal of Algebra, 1994, 163, 68-87.	0.7	24
120	Cross Products by Braided Groups and Bosonization. Journal of Algebra, 1994, 163, 165-190.	0.7	150
121	Braided Groups and Quantum Fourier Transform. Journal of Algebra, 1994, 166, 506-528.	0.7	67
122	Quantum and braided-Lie algebras. Journal of Geometry and Physics, 1994, 13, 307-356.	1.4	68
123	The quantum double as quantum mechanics. Journal of Geometry and Physics, 1994, 13, 169-202.	1.4	32
124	Bicrossproduct structure of $\hat{\mathfrak{p}}$ -Poincare group and non-commutative geometry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 334, 348-354.	4.1	628
125	Some remarks on the quantum double. European Physical Journal D, 1994, 44, 1059-1071.	0.4	6
126	Anyonic FRT construction. European Physical Journal D, 1994, 44, 1073-1080.	0.4	12



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127	On the addition of quantum matrices. <i>Journal of Mathematical Physics</i> , 1994, 35, 2617-2632.	1.1	9
128	Braided groups of Hopf algebras obtained by twisting. <i>Pacific Journal of Mathematics</i> , 1994, 162, 27-44.	0.5	37
129	Braided groups. <i>Journal of Pure and Applied Algebra</i> , 1993, 86, 187-221.	0.6	120
130	Quantum and super-quantum group related to the Alexander-Conway polynomial. <i>Journal of Geometry and Physics</i> , 1993, 11, 437-443.	1.4	4
131	Braided matrix structure of the Sklyanin algebra and of the quantum Lorentz group. <i>Communications in Mathematical Physics</i> , 1993, 156, 607-638.	2.2	66
132	Quantum group gauge theory on quantum spaces. <i>Communications in Mathematical Physics</i> , 1993, 157, 591-638.	2.2	195
133	Quantum and braided linear algebra. <i>Journal of Mathematical Physics</i> , 1993, 34, 1176-1196.	1.1	51
134	Free braided differential calculus, braided binomial theorem, and the braided exponential map. <i>Journal of Mathematical Physics</i> , 1993, 34, 4843-4856.	1.1	83
135	The braided Heisenberg group. <i>Journal of Mathematical Physics</i> , 1993, 34, 3588-3606.	1.1	11
136	Braided momentum in the $q$ -Poincaré group. <i>Journal of Mathematical Physics</i> , 1993, 34, 2045-2058.	1.1	122
137	Transmutation theory and rank for quantum braided groups. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 1993, 113, 45-70.	0.4	52
138	Statistical quantum groups and Weyl algebras. <i>Journal of Mathematical Physics</i> , 1992, 33, 3431-3444.	1.1	27
139	Hopf-von Neumann algebra bicrossproducts, Kac algebra bicrossproducts, and the Classical Yang-Baxter Equations. <i>Journal of Functional Analysis</i> , 1991, 95, 291-319.	1.4	61
140	Rank of quantized universal enveloping algebras and modular functions. <i>Communications in Mathematical Physics</i> , 1991, 137, 249-262.	2.2	11
141	Braided groups and algebraic quantum field theories. <i>Letters in Mathematical Physics</i> , 1991, 22, 167-175.	1.1	76
142	Doubles of quasitriangular hopf algebras. <i>Communications in Algebra</i> , 1991, 19, 3061-3073.	0.6	97
143	Examples of braided groups and braided matrices. <i>Journal of Mathematical Physics</i> , 1991, 32, 3246-3253.	1.1	146
144	Principle of Representation-Theoretic Self-Duality. <i>Physics Essays</i> , 1991, 4, 395-405.	0.4	23

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145	Fourier transforms on A/G and knot invariants. Journal of Mathematical Physics, 1990, 31, 924-927.	1.1	5
146	More examples of bicrossproduct and double cross product Hopf algebras. Israel Journal of Mathematics, 1990, 72, 133-148.	0.8	62
147	Physics for algebraists: Non-commutative and non-cocommutative Hopf algebras by a bicrossproduct construction. Journal of Algebra, 1990, 130, 17-64.	0.7	229
148	ON q-REGULARIZATION. International Journal of Modern Physics A, 1990, 05, 4689-4696.	1.5	55
149	Representation-theoretic rank and double hopf algebras. Communications in Algebra, 1990, 18, 3705-3712.	0.6	31
150	Matched pairs of Lie groups associated to solutions of the Yang-Baxter equations. Pacific Journal of Mathematics, 1990, 141, 311-332.	0.5	110
151	Partial waves for the linearized Yang-Mills equation about a monopole background. Journal of Mathematical Physics, 1989, 30, 1150-1157.	1.1	1
152	Hopf algebras for physics at the Planck scale. Classical and Quantum Gravity, 1988, 5, 1587-1606.	4.0	164
153	Liouville theorem for the Yang-Mills self-duality equations. Journal of Mathematical Physics, 1988, 29, 2303-2310.	1.1	1
154	Quantum spacetime and physical reality. , 0, , 56-140.		1
155	Quantum and braided ZX calculus. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	2