Hendrik De Bie

List of Publications by Year
in descending order

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70	872	471509	552781
papers	citations	17	26
		h-index	g-index

70	70	70	204
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spherical harmonics and integration in superspace. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 7193-7212.	2.1	63
2	Dunkl operators and a family of realizations of $mathfrak{osp}(1vert2)$. Transactions of the American Mathematical Society, 2012, 364, 3875-3902.	0.9	52
3	Spherical harmonics and integration in superspace: II. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 245204.	2.1	44
4	Clifford algebras, Fourier transforms, and quantum mechanics. Mathematical Methods in the Applied Sciences, 2012, 35, 2198-2228.	2.3	40
5	The Class of Clifford-Fourier Transforms. Journal of Fourier Analysis and Applications, 2011, 17, 1198-1231.	1.0	35
6	Explicit formulas for the Dunkl dihedral kernel and the (Î¹,a)-generalized Fourier kernel. Journal of Mathematical Analysis and Applications, 2018, 460, 900-926.	1.0	34
7	A higher rank Racah algebra and the $mathbb{Z}_2^n$ Laplaceâ€“Dunkl operator. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 025203.	2.1	34
8	The <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msubsup><mml:mrow><mml:mi mathvariant="double-struck">Z</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mrow><mml:mi>n</mml:mi></mml:mrow></mml:msubsup></mml:math> Diracâ€“Dunkl operator and a higher rank Bannaiâ€“Ito algebra. Advances in Mathematics, 2016, 303, 390-414.	1.0	31
9	A Diracâ€“Dunkl Equation on S 2 and the Bannaiâ€“Ito Algebra. Communications in Mathematical Physics, 2016, 344, 447-464.	2.2	29
10	Correct Rules for Clifford Calculus on Superspace. Advances in Applied Clifford Algebras, 2007, 17, 357-382.	1.0	27
11	Fourier transform and related integral transforms in superspace. Journal of Mathematical Analysis and Applications, 2008, 345, 147-164.	1.0	26
12	A Clifford analysis approach to superspace. Annals of Physics, 2007, 322, 2978-2993.	2.8	23
13	The Fractional Clifford-Fourier Transform. Complex Analysis and Operator Theory, 2012, 6, 1047-1067.	0.6	23
14	Convolution Products for Hypercomplex Fourier Transforms. Journal of Mathematical Imaging and Vision, 2014, 48, 606-624.	1.3	23
15	Fundamental solutions for the super Laplace and Dirac operators and all their natural powers. Journal of Mathematical Analysis and Applications, 2008, 338, 1320-1328.	1.0	19
16	The Bannai-Ito algebra and some applications. Journal of Physics: Conference Series, 2015, 597, 012001.	0.4	19
17	Generalized Fourier Transforms Arising from the Enveloping Algebras of ??(2) and ???(1âˆ£2). International Mathematics Research Notices, 2016, 2016, 4649-4705.	1.0	19
18	Hermite and Gegenbauer polynomials in superspace using Clifford analysis. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 10441-10456.	2.1	18

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19	The kernel of the radially deformed Fourier transform. Integral Transforms and Special Functions, 2013, 24, 1000-1008.	1.2	17
20	Connecting spatial and frequency domains for the quaternion Fourier transform. Applied Mathematics and Computation, 2015, 271, 581-593.	2.2	17
21	Orthogonality of Hermite polynomials in superspace and Mehler type formulae. Proceedings of the London Mathematical Society, 2011, 103, 786-825.	1.3	16
22	A new construction of the Clifford-Fourier kernel. Journal of Fourier Analysis and Applications, 2017, 23, 462-483.	1.0	16
23	The Higher Spin Laplace Operator. Potential Analysis, 2017, 47, 123-149.	0.9	15
24	The Higher Rank q-Deformed Bannai-Ito and Askey-Wilson Algebra. Communications in Mathematical Physics, 2020, 374, 277-316.	2.2	15
25	The Cauchyâ€Kowalewski product for bicomplex holomorphic functions. Mathematische Nachrichten, 2012, 285, 1230-1242.	0.8	14
26	Conformal symmetries of the super Dirac operator. Revista Matematica Iberoamericana, 2015, 31, 373-410.	0.9	14
27	A superintegrable model with reflections on‹i›S‹/i›‹sup›‹i›n‹/i›â^'1‹/sup›and the higher rank Bannaiâ€"Ito algebra. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 195202.	2.1	13
28	On the algebra of symmetries of Laplace and Dirac operators. Letters in Mathematical Physics, 2018, 108, 1905-1953.	1.1	12
29	SchrÃ¶dinger equation with delta potential in superspace. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4350-4352.	2.1	11
30	The metaplectic Howe duality and polynomial solutions for the symplectic Dirac operator. Journal of Geometry and Physics, 2014, 75, 120-128.	1.4	11
31	Fractional Fourier transforms of hypercomplex signals. Signal, Image and Video Processing, 2012, 6, 381-388.	2.7	10
32	Octonion Sparse Representation for Color and Multispectral Image Processing. , 2018, , .		10
33	A Cauchy integral formula in superspace. Bulletin of the London Mathematical Society, 2009, 41, 709-722.	0.8	9
34	Algebraic Approach to Slice Monogenic Functions. Complex Analysis and Operator Theory, 2015, 9, 1065-1087.	0.6	9
35	A Discrete Realization of the Higher Rank Racah Algebra. Constructive Approximation, 2020, 52, 1-29.	3.0	9
36	A SUPERINTEGRABLE MODEL WITH REFLECTIONS ON S^3 AND THE RANK TWO BANNAI-ITO ALGEBRA. Acta Polytechnica, 2016, 56, 166.	0.6	8

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37	The total angular momentum algebra related to the S3 Dunkl Dirac equation. Annals of Physics, 2018, 389, 192-218.	2.8	8
38	Reproducing Kernels for Polynomial Null-Solutions of Dirac Operators. Constructive Approximation, 2016, 44, 339-383.	3.0	7
39	The harmonic transvector algebra in two vector variables. Journal of Algebra, 2017, 473, 247-282.	0.7	7
40	The Dunkl kernel and intertwining operator for dihedral groups. Journal of Functional Analysis, 2021, 280, 108932.	1.4	6
41	The Clifford Deformation of the Hermite Semigroup. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2013, , .	0.5	5
42	An Alternative Definition of the Hermite Polynomials Related to the Dunkl Laplacian. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2008, , .	0.5	5
43	Fourier Transforms in Clifford Analysis. , 2015, , 1651-1672.		4
44	Slice Segalâ€“Bargmann transform. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 255207.	2.1	4
45	Bargmann and Barut-Girardello models for the Racah algebra. Journal of Mathematical Physics, 2019, 60, 011701.	1.1	4
46	The qâ€Bannaiâ€“Ito algebra and multivariate (â˜q)â€Racah and Bannaiâ€“Ito polynomials. Journal of the London Mathematical Society, 2021, 103, 71-126.	1.0	4
47	The generating function of the Clifford-Gegenbauer polynomials. , 2012, , .		3
48	Generating functions of orthogonal polynomials in higher dimensions. Journal of Approximation Theory, 2014, 178, 30-40.	0.8	3
49	Basic Aspects of Symplectic Clifford Analysis for the Symplectic Dirac Operator. Advances in Applied Clifford Algebras, 2017, 27, 1103-1132.	1.0	3
50	The kernel of the generalized Clifford-Fourier transform and its generating function. Complex Variables and Elliptic Equations, 2017, 62, 214-229.	0.8	3
51	Finite-dimensional representations of the symmetry algebra of the dihedral Dunklâ€“Dirac operator. Journal of Algebra, 2021, , .	0.7	3
52	On a Chain of Harmonic and Monogenic Potentials in Euclidean Halfâ€“space. Potential Analysis, 2014, 41, 613-645.	0.9	2
53	Harmonic and monogenic potentials in low dimensional Euclidean half-space. Mathematical Methods in the Applied Sciences, 2014, 37, 2065-2079.	2.3	2
54	New Results on the Radially Deformed Dirac Operator. Complex Analysis and Operator Theory, 2017, 11, 1283-1307.	0.6	2

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55	Slice Fourier transform and convolutions. Annali Di Matematica Pura Ed Applicata, 2017, 196, 837-862.	1.0	2
56	Representations of the Lie Superalgebra osp(1 | 2n) with Polynomial Bases. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	2
57	Distributional Boundary Values of Harmonic Potentials in Euclidean Half-Space as Fundamental Solutions of Convolution Operators in Clifford Analysis. Springer INdAM Series, 2013, , 15-37.	0.5	2
58	Variational Auto-Encoders Without Graph Coarsening For Fine Mesh Learning. , 2020, , .		1
59	Solutions for the LÃ©vy-Leblond or parabolic Dirac equation and its generalizations. Journal of Mathematical Physics, 2020, 61, 011509.	1.1	1
60	Implementing zonal harmonics with the Fueter principle. Journal of Mathematical Analysis and Applications, 2021, 495, 124764.	1.0	1
61	Dunkl intertwining operator for symmetric groups. Proceedings of the American Mathematical Society, 2021, 149, 4871-4880.	0.8	1
62	Symmetries of the $$S_3$$ Diracâ€“Dunkl Operator. Springer Proceedings in Mathematics and Statistics, 2018, , 255-260.	0.2	1
63	A Fock Model and the Segal-Bargmann Transform for the Minimal Representation of the Orthosymplectic Lie Superalgebra osp(m,2 | 2n). Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	1
64	Representation of Distributions by Harmonic and Monogenic Potentials in Euclidean Space. Advances in Applied Clifford Algebras, 2015, 25, 31-52.	1.0	0
65	Cliffordâ€“Fourier transform on hyperbolic space. Mathematical Methods in the Applied Sciences, 2017, 40, 3666-3675.	2.3	0
66	Plane wave formulas for spherical, complex and symplectic harmonics. Journal of Approximation Theory, 2017, 222, 110-131.	0.8	0
67	Fourier Transforms in Clifford Analysis. , 2014, , 1-21.		0
68	Fourier Transforms in Clifford Analysis. , 2014, , 1-20.		0
69	The Racah Algebra and "Equation missing". , 2021, , 209-216.		0
70	The Monogenic Huaâ€“Radon Transform and Its Inverse. Journal of Geometric Analysis, 2022, 32, 1.	1.0	0