# Hendrik De Bie

List of Publications by Year
in descending order

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Version: 2024-02-01

| 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 | The Monogenic Huaâ€“Radon Transform and Its Inverse. Journal of Geometric Analysis, 2022, 32, 1. | 1.0 | 0 |
| 2 | Implementing zonal harmonics with the Fueter principle. Journal of Mathematical Analysis and Applications, 2021, 495, 124764. | 1.0 | 1 |
| 3 | The qâ€Bannaiâ€“Ito algebra and multivariate (âˆ’q)â€Racah and Bannaiâ€“Ito polynomials. Journal of the London Mathematical Society, 2021, 103, 71-126. | 1.0 | 4 |
| 4 | The Dunkl kernel and intertwining operator for dihedral groups. Journal of Functional Analysis, 2021, 280, 108932. | 1.4 | 6 |
| 5 | Dunkl intertwining operator for symmetric groups. Proceedings of the American Mathematical Society, 2021, 149, 4871-4880. | 0.8 | 1 |
| 6 | The Racah Algebra and "Equation missing". , 2021, , 209-216. | | 0 |
| 7 | Finite-dimensional representations of the symmetry algebra of the dihedral Dunklâ€“Dirac operator. Journal of Algebra, 2021, , . | 0.7 | 3 |
| 8 | The Higher Rank q-Deformed Bannai-Ito and Askey-Wilson Algebra. Communications in Mathematical Physics, 2020, 374, 277-316. | 2.2 | 15 |
| 9 | A Discrete Realization of the Higher Rank Racah Algebra. Constructive Approximation, 2020, 52, 1-29. | 3.0 | 9 |
| 10 | Variational Auto-Encoders Without Graph Coarsening For Fine Mesh Learning. , 2020, , . | | 1 |
| 11 | Solutions for the LÃ©vy-Leblond or parabolic Dirac equation and its generalizations. Journal of Mathematical Physics, 2020, 61, 011509. | 1.1 | 1 |
| 12 | Bargmann and Barut-Girardello models for the Racah algebra. Journal of Mathematical Physics, 2019, 60, 011701. | 1.1 | 4 |
| 13 | Explicit formulas for the Dunkl dihedral kernel and the (Î²,a)-generalized Fourier kernel. Journal of Mathematical Analysis and Applications, 2018, 460, 900-926. | 1.0 | 34 |
| 14 | The total angular momentum algebra related to the S3 Dunkl Dirac equation. Annals of Physics, 2018, 389, 192-218. | 2.8 | 8 |
| 15 | Octonion Sparse Representation for Color and Multispectral Image Processing. , 2018, , . | | 10 |
| 16 | On the algebra of symmetries of Laplace and Dirac operators. Letters in Mathematical Physics, 2018, 108, 1905-1953. | 1.1 | 12 |
| 17 | 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 |
| 18 | Symmetries of the $$S_3$$ Diracâ€“Dunkl Operator. Springer Proceedings in Mathematics and Statistics, 2018, , 255-260. | 0.2 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | New Results on the Radially Deformed Dirac Operator. Complex Analysis and Operator Theory, 2017, 11, 1283-1307. | 0.6 | 2 |
| 20 | The harmonic transvector algebra in two vector variables. Journal of Algebra, 2017, 473, 247-282. | 0.7 | 7 |
| 21 | A superintegrable model with reflections onS<sup>nâ^'1</sup>and the higher rank Bannaiâ€“Ito algebra. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 195202. | 2.1 | 13 |
| 22 | Slice Segalâ€“Bargmann transform. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 255207. | 2.1 | 4 |
| 23 | Cliffordâ€“Fourier transform on hyperbolic space. Mathematical Methods in the Applied Sciences, 2017, 40, 3666-3675. | 2.3 | 0 |
| 24 | The Higher Spin Laplace Operator. Potential Analysis, 2017, 47, 123-149. | 0.9 | 15 |
| 25 | Plane wave formulas for spherical, complex and symplectic harmonics. Journal of Approximation Theory, 2017, 222, 110-131. | 0.8 | 0 |
| 26 | Basic Aspects of Symplectic Clifford Analysis for the Symplectic Dirac Operator. Advances in Applied Clifford Algebras, 2017, 27, 1103-1132. | 1.0 | 3 |
| 27 | Slice Fourier transform and convolutions. Annali Di Matematica Pura Ed Applicata, 2017, 196, 837-862. | 1.0 | 2 |
| 28 | The kernel of the generalized Clifford-Fourier transform and its generating function. Complex Variables and Elliptic Equations, 2017, 62, 214-229. | 0.8 | 3 |
| 29 | A new construction of the Clifford-Fourier kernel. Journal of Fourier Analysis and Applications, 2017, 23, 462-483. | 1.0 | 16 |
| 30 | A SUPERINTEGRABLE MODEL WITH REFLECTIONS ON S^3 AND THE RANK TWO BANNAI-ITO ALGEBRA. Acta Polytechnica, 2016, 56, 166. | 0.6 | 8 |
| 31 | A Diracâ€“Dunkl Equation on S 2 and the Bannaiâ€“Ito Algebra. Communications in Mathematical Physics, 2016, 344, 447-464. | 2.2 | 29 |
| 32 | 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 |
| 33 | Reproducing Kernels for Polynomial Null-Solutions of Dirac Operators. Constructive Approximation, 2016, 44, 339-383. | 3.0 | 7 |
| 34 | Generalized Fourier Transforms Arising from the Enveloping Algebras of ??(2) and ???(1â^£2). International Mathematics Research Notices, 2016, 2016, 4649-4705. | 1.0 | 19 |
| 35 | The Bannai-Ito algebra and some applications. Journal of Physics: Conference Series, 2015, 597, 012001. | 0.4 | 19 |
| 36 | Conformal symmetries of the super Dirac operator. Revista Matematica Iberoamericana, 2015, 31, 373-410. | 0.9 | 14 |

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|---|---|---|---|
| 37 | Representation of Distributions by Harmonic and Monogenic Potentials in Euclidean Space. Advances in Applied Clifford Algebras, 2015, 25, 31-52. | 1.0 | 0 |
| 38 | Connecting spatial and frequency domains for the quaternion Fourier transform. Applied Mathematics and Computation, 2015, 271, 581-593. | 2.2 | 17 |
| 39 | Fourier Transforms in Clifford Analysis. , 2015, , 1651-1672. | | 4 |
| 40 | Algebraic Approach to Slice Monogenic Functions. Complex Analysis and Operator Theory, 2015, 9, 1065-1087. | 0.6 | 9 |
| 41 | Convolution Products for Hypercomplex Fourier Transforms. Journal of Mathematical Imaging and Vision, 2014, 48, 606-624. | 1.3 | 23 |
| 42 | On a Chain of Harmonic and Monogenic Potentials in Euclidean Halfâ€“space. Potential Analysis, 2014, 41, 613-645. | 0.9 | 2 |
| 43 | Harmonic and monogenic potentials in low dimensional Euclidean half-space. Mathematical Methods in the Applied Sciences, 2014, 37, 2065-2079. | 2.3 | 2 |
| 44 | Generating functions of orthogonal polynomials in higher dimensions. Journal of Approximation Theory, 2014, 178, 30-40. | 0.8 | 3 |
| 45 | The metaplectic Howe duality and polynomial solutions for the symplectic Dirac operator. Journal of Geometry and Physics, 2014, 75, 120-128. | 1.4 | 11 |
| 46 | Fourier Transforms in Clifford Analysis. , 2014, , 1-21. | | 0 |
| 47 | Fourier Transforms in Clifford Analysis. , 2014, , 1-20. | | 0 |
| 48 | The kernel of the radially deformed Fourier transform. Integral Transforms and Special Functions, 2013, 24, 1000-1008. | 1.2 | 17 |
| 49 | The Clifford Deformation of the Hermite Semigroup. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2013, , . | 0.5 | 5 |
| 50 | 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 |
| 51 | The generating function of the Clifford-Gegenbauer polynomials. , 2012, , . | | 3 |
| 52 | Clifford algebras, Fourier transforms, and quantum mechanics. Mathematical Methods in the Applied Sciences, 2012, 35, 2198-2228. | 2.3 | 40 |
| 53 | Fractional Fourier transforms of hypercomplex signals. Signal, Image and Video Processing, 2012, 6, 381-388. | 2.7 | 10 |
| 54 | The Fractional Clifford-Fourier Transform. Complex Analysis and Operator Theory, 2012, 6, 1047-1067. | 0.6 | 23 |

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|---|---|---|---|
| 55 | Dunkl operators and a family of realizations of $mathfrak{osp}(1vert2)$. Transactions of the American Mathematical Society, 2012, 364, 3875-3902. | 0.9 | 52 |
| 56 | The Cauchyâ€Kowalewski product for bicomplex holomorphic functions. Mathematische Nachrichten, 2012, 285, 1230-1242. | 0.8 | 14 |
| 57 | The Class of Clifford-Fourier Transforms. Journal of Fourier Analysis and Applications, 2011, 17, 1198-1231. | 1.0 | 35 |
| 58 | Orthogonality of Hermite polynomials in superspace and Mehler type formulae. Proceedings of the London Mathematical Society, 2011, 103, 786-825. | 1.3 | 16 |
| 59 | A Cauchy integral formula in superspace. Bulletin of the London Mathematical Society, 2009, 41, 709-722. | 0.8 | 9 |
| 60 | Spherical harmonics and integration in superspace: II. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 245204. | 2.1 | 44 |
| 61 | 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 |
| 62 | 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 |
| 63 | Fourier transform and related integral transforms in superspace. Journal of Mathematical Analysis and Applications, 2008, 345, 147-164. | 1.0 | 26 |
| 64 | An Alternative Definition of the Hermite Polynomials Related to the Dunkl Laplacian. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2008, , . | 0.5 | 5 |
| 65 | Spherical harmonics and integration in superspace. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 7193-7212. | 2.1 | 63 |
| 66 | Hermite and Gegenbauer polynomials in superspace using Clifford analysis. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 10441-10456. | 2.1 | 18 |
| 67 | A Clifford analysis approach to superspace. Annals of Physics, 2007, 322, 2978-2993. | 2.8 | 23 |
| 68 | Correct Rules for Clifford Calculus on Superspace. Advances in Applied Clifford Algebras, 2007, 17, 357-382. | 1.0 | 27 |
| 69 | Representations of the Lie Superalgebra osp(1\|2n) with Polynomial Bases. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , . | 0.5 | 2 |
| 70 | 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 |