

# Joao Morais

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

590  
citations

759233

12  
h-index

713466

21  
g-index

61  
all docs

61  
docs citations

61  
times ranked

148  
citing authors

#	ARTICLE	IF	CITATIONS
1	On Uncertainty Principle for Quaternionic Linear Canonical Transform. Abstract and Applied Analysis, 2013, 2013, 1-14.	0.7	61
2	Generalized prolate spheroidal wave functions for offset linear canonical transform in Clifford analysis. Mathematical Methods in the Applied Sciences, 2013, 36, 1028-1041.	2.3	55
3	Real Quaternionic Calculus Handbook. , 2014, , .		54
4	Asymptotic behaviour of the quaternion linear canonical transform and the Bochner-Minlos theorem. Applied Mathematics and Computation, 2014, 247, 675-688.	2.2	48
5	Uncertainty principles associated with quaternionic linear canonical transforms. Mathematical Methods in the Applied Sciences, 2016, 39, 2722-2736.	2.3	33
6	Real-part estimates for solutions of the Riesz system in $\mathbb{R}^3$ . Complex Variables and Elliptic Equations, 2012, 57, 505-522.	0.8	30
7	Bohr Type Theorems for Monogenic Power Series. Computational Methods and Function Theory, 2009, 9, 633-651.	1.5	24
8	Generalized holomorphic Szegő kernel in 3D spheroids. Computers and Mathematics With Applications, 2013, 65, 576-588.	2.7	15
9	An orthogonal system of monogenic polynomials over prolate spheroids in $\mathbb{R}^3$ . Mathematical and Computer Modelling, 2013, 57, 125-134.	2.0	15
10	Orthogonal Appell systems of monogenic functions in the cylinder. Mathematical Methods in the Applied Sciences, 2011, 34, 1472-1486.	2.3	14
11	Generalized Derivative and Primitive of Cliffordian Bases of Polynomials Constructed Through Appell Monomials. Computational Methods and Function Theory, 2012, 12, 501-515.	1.5	14
12	Envelope detection using generalized analytic signal in 2D QLCT domains. Multidimensional Systems and Signal Processing, 2017, 28, 1343-1366.	2.6	14
13	On the construction of generalized monogenic Bessel polynomials. Mathematical Methods in the Applied Sciences, 2018, 41, 9335-9348.	2.3	14
14	Bochner-Minlos Theorem and Quaternion Fourier Transform. , 2013, , 105-120.		14
15	Hadamard three-hyperballs type theorem and overconvergence of special monogenic simple series. Journal of Mathematical Analysis and Applications, 2014, 412, 426-434.	1.0	12
16	Computational aspects of the continuum quaternionic wave functions for hydrogen. Annals of Physics, 2014, 349, 171-188.	2.8	11
17	Borel-Carathéodory Type Theorem for Monogenic Functions. Complex Analysis and Operator Theory, 2009, 3, 99-112.	0.6	10
18	On the Calculation of Monogenic Primitives. Advances in Applied Clifford Algebras, 2007, 17, 481-496.	1.0	9

#	ARTICLE	IF	CITATIONS
19	Bloch's Theorem in the Context of Quaternion Analysis. Computational Methods and Function Theory, 2012, 12, 541-558.	1.5	9
20	Applications of differential subordination and superordination theorems to fluid mechanics involving a fractional higher-order integral operator. AEJ - Alexandria Engineering Journal, 2021, 60, 3901-3914.	6.4	9
21	On orthogonal monogenics in oblate spheroidal domains and recurrence formulae. Integral Transforms and Special Functions, 2014, 25, 513-527.	1.2	8
22	On Riesz systems of harmonic conjugates in. Mathematical Methods in the Applied Sciences, 2013, 36, 1598-1614.	2.3	7
23	ON CONVERGENCE PROPERTIES OF 3D SPHEROIDAL MONOGENICS. International Journal of Wavelets, Multiresolution and Information Processing, 2013, 11, 1350024.	1.3	7
24	Quaternion Zernike spherical polynomials. Mathematics of Computation, 2014, 84, 1317-1337.	2.1	7
25	On some constructive aspects of monogenic function theory in $\mathbb{H}^4$ . Mathematical Methods in the Applied Sciences, 2011, 34, 1694-1706.	2.3	6
26	Sharper uncertainty principles for the windowed Fourier transform. Journal of Modern Optics, 2015, 62, 46-55.	1.3	6
27	Constructing prolate spheroidal quaternion wave functions on the sphere. Mathematical Methods in the Applied Sciences, 2016, 39, 3961-3978.	2.3	6
28	On 3D orthogonal prolate spheroidal monogenics. Mathematical Methods in the Applied Sciences, 2016, 39, 635-648.	2.3	6
29	3D deformations by means of monogenic functions. Mathematical Methods in the Applied Sciences, 2013, 36, 780-793.	2.3	5
30	Computational geometric and boundary value properties of Oblate Spheroidal Quaternionic Wave Functions. Wave Motion, 2015, 57, 112-128.	2.0	5
31	Third-order differential subordinations for multivalent functions in the theory of source-sink dynamics. Mathematical Methods in the Applied Sciences, 2021, 44, 11269-11287.	2.3	5
32	The Geometric Characterizations for a Combination of Generalized Struve Functions. Computational Methods and Function Theory, 2022, 22, 699-714.	1.5	5
33	Bochner's Theorems in the Framework of Quaternion Analysis. , 2013, , 85-104.		5
34	Local Properties of Monogenic Mappings. , 2009, , .		4
35	On a version of quaternionic function theory related to Chebyshev polynomials and modified Sturm-Liouville operators. Quarterly of Applied Mathematics, 2015, 74, 165-187.	0.7	4
36	Bohr's Theorem for Monogenic Functions. AIP Conference Proceedings, 2007, , .	0.4	3

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37	An introduction to the Hilger quaternion numbers. , 2013, , .		3
38	Signal moments for the short-time Fourier transform associated with Hardy-Sobolev derivatives. Mathematical Methods in the Applied Sciences, 2015, 38, 2719-2730.	2.3	3
39	Towards a quaternionic function theory linked with the Lamé's wave functions. Mathematical Methods in the Applied Sciences, 2015, 38, 4365-4387.	2.3	3
40	Contragenic functions on spheroidal domains. Mathematical Methods in the Applied Sciences, 2018, 41, 2575-2589.	2.3	3
41	Prolate spheroidal wave functions associated with the quaternionic Fourier transform. Mathematical Methods in the Applied Sciences, 2018, 41, 4003-4020.	2.3	3
42	Geometric Characterization of "Equation missing" -Conformal Mappings. , 2010, , 327-343.		3
43	Local distortion of monogenic functions. AIP Conference Proceedings, 2012, , .	0.4	2
44	On M-conformal mappings. AIP Conference Proceedings, 2012, , .	0.4	2
45	Local distortion of M-conformal mappings. Applied Mathematics and Computation, 2014, 249, 554-568.	2.2	2
46	Generalized holomorphic orthogonal function systems over infinite cylinders. Mathematical Methods in the Applied Sciences, 2015, 38, 2574-2588.	2.3	2
47	Quaternionic spherical wave functions. Mathematical Methods in the Applied Sciences, 2016, 39, 5118-5130.	2.3	2
48	On the Construction of Harmonic Conjugates in the Context of Quaternionic Analysis. , 2010, , .		1
49	On Convergence Aspects of Spheroidal Monogenics. , 2011, , .		1
50	An explicit formula for the monogenic Szegő kernel function on 3D spheroids. AIP Conference Proceedings, 2012, , .	0.4	1
51	An orthogonal decomposition of the complex quaternion Hilbert space and its applications. , 2012, , .		1
52	An introduction to the quaternionic Zernike spherical polynomials. , 2013, , .		1
53	Relations among spheroidal and spherical harmonics. Applied Mathematics and Computation, 2020, 384, 125147.	2.2	1
54	An Orthogonal Set of Weighted Quaternionic Zernike Spherical Functions. Lecture Notes in Computer Science, 2014, , 103-116.	1.3	1

#	ARTICLE	IF	CITATIONS
55	Comments on an Orthogonal Family of Monogenic Functions on Spheroidal Domains. Trends in Mathematics, 2019, , 251-266.	0.1	1
56	Hadamard's Real Part Theorem for Monogenic Functions. , 2008, , .		0
57	Approximation of Monogenic Functions by Means of Monogenic Polynomials in $\mathbb{R}^4$ . , 2010, , .		0
58	A family of fundamental solutions for elliptic quaternion coefficient differential operators and application to perturbation results for single layer potentials. , 2012, , .		0
59	On 3D Riesz systems of harmonic conjugates. , 2012, , .		0
60	Bochner's theorem on Fourier-Stieltjes integrals in the framework of quaternion analysis. , 2012, , .		0
61	A version of quaternionic function theory related to prolate spheroidal wave signals. , 2013, , .		0