

# Alicia Cachafeiro

## List of Publications by Year in descending order

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60  
papers

218  
citations

1163117

8  
h-index

1199594

12  
g-index

60  
all docs

60  
docs citations

60  
times ranked

59  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modifications of Toeplitz Matrices: Jump Functions. Rocky Mountain Journal of Mathematics, 1993, 23, 521.	0.4	25
2	Orthogonal Polynomials of Sobolev Type on the Unit Circle. Journal of Approximation Theory, 1994, 78, 127-146.	0.8	14
3	Strong Asymptotics for the Continuous Sobolev Orthogonal Polynomials on the Unit Circle. Journal of Approximation Theory, 1999, 100, 381-391.	0.8	11
4	Algorithms for solving Hermite interpolation problems using the Fast Fourier Transform. Journal of Computational and Applied Mathematics, 2010, 235, 882-894.	2.0	11
5	On asymptotic properties of Freud's Sobolev orthogonal polynomials. Journal of Approximation Theory, 2003, 125, 26-41.	0.8	10
6	Connection between orthogonal polynomials on the unit circle and bounded interval. Journal of Computational and Applied Mathematics, 2005, 177, 205-223.	2.0	10
7	Lebesgue perturbation of a quasi-definite Hermitian functional. The positive definite case. Linear Algebra and Its Applications, 2003, 369, 235-250.	0.9	9
8	Gibbs phenomenon in the Hermite interpolation on the circle. Applied Mathematics and Computation, 2015, 253, 274-286.	2.2	9
9	Some improvements to the Hermite-Fejér interpolation on the circle and bounded interval. Computers and Mathematics With Applications, 2011, 61, 1228-1240.	2.7	8
10	Lebesgue Sobolev orthogonality on the unit circle. Journal of Computational and Applied Mathematics, 1998, 96, 27-34.	2.0	7
11	A family of Sobolev orthogonal polynomials on the unit circle. Journal of Computational and Applied Mathematics, 1999, 105, 163-173.	2.0	7
12	A characterization of the four Chebyshev orthogonal families. International Journal of Mathematics and Mathematical Sciences, 2005, 2005, 2071-2079.	0.7	7
13	A new numerical quadrature formula on the unit circle. Numerical Algorithms, 2007, 44, 391-401.	1.9	5
14	An Extension of Fejér's Condition for Hermite Interpolation. Complex Analysis and Operator Theory, 2012, 6, 651-664.	0.6	5
15	Rate of Convergence of Hermite-Fejér Interpolation on the Unit Circle. Journal of Applied Mathematics, 2013, 2013, 1-8.	0.9	5
16	Gibbs's Wilbraham phenomenon on Lagrange interpolation based on analytic weights on the unit circle. Journal of Computational and Applied Mathematics, 2020, 365, 112376.	2.0	5
17	Strong asymptotics inside the unit disk for Sobolev orthogonal polynomials. Computers and Mathematics With Applications, 2002, 44, 253-261.	2.7	4
18	Second degree functionals on the unit circle. Integral Transforms and Special Functions, 2004, 15, 281-294.	1.2	4

#	ARTICLE	IF	CITATIONS
19	A scalar Riemann boundary value problem approach to orthogonal polynomials on the circle. Journal of Approximation Theory, 2006, 141, 174-181.	0.8	4
20	Orthogonal polynomials with respect to the sum of an arbitrary measure and a Bernstein-Szegő measure. Advances in Computational Mathematics, 2007, 26, 81-104.	1.6	4
21	An interpolation problem on the circle between Lagrange and Hermite problems. Journal of Approximation Theory, 2017, 215, 118-144.	0.8	4
22	Perturbations in Toeplitz matrices. II. Asymptotic properties. Journal of Mathematical Analysis and Applications, 1991, 156, 44-51.	1.0	3
23	Polynomials with minimal norm and new results in Szegő's theory. Complex Variables and Elliptic Equations, 2000, 43, 151-167.	0.2	3
24	Algorithms and convergence for Hermite interpolation based on extended Chebyshev nodal systems. Applied Mathematics and Computation, 2014, 234, 223-236.	2.2	3
25	Convergence of Hermite interpolants on the circle using two derivatives. Journal of Computational and Applied Mathematics, 2015, 284, 58-68.	2.0	3
26	Gibbs-Wilbraham oscillation related to an Hermite interpolation problem on the unit circle. Journal of Computational and Applied Mathematics, 2018, 344, 657-675.	2.0	3
27	Mechanical Models for Hermite Interpolation on the Unit Circle. Mathematics, 2021, 9, 1043.	2.2	3
28	The characterization of the quasi-typical extension of an inner product. Journal of Approximation Theory, 1990, 62, 235-242.	0.8	2
29	Nodal systems with maximal domain of exactness for Gaussian quadrature formulas. Journal of Computational and Applied Mathematics, 2008, 212, 272-281.	2.0	2
30	Characterizing the measures on the unit circle with exact quadrature formulas in the space of polynomials. Computers and Mathematics With Applications, 2009, 58, 1370-1382.	2.7	2
31	About measures and nodal systems for which the Hermite interpolants uniformly converge to continuous functions on the circle and interval. Applied Mathematics and Computation, 2011, 218, 4813-4813.	2.2	2
32	On the asymptotic constant for the rate of Hermite convergence on Chebyshev nodes. Acta Mathematica Hungarica, 2015, 147, 32-45.	0.5	2
33	Szegő transformation and zeros of analytic perturbations of Chebyshev weights. Journal of Mathematical Analysis and Applications, 2019, 470, 571-583.	1.0	2
34	Classical Lagrange Interpolation Based on General Nodal Systems at Perturbed Roots of Unity. Mathematics, 2020, 8, 498.	2.2	2
35	A SYSTEM OF BIORTHOGONAL TRIGONOMETRIC POLYNOMIALS. , 2007, , .		2
36	Second kind functionals for the Laguerre-Hahn affine class on the unit circle. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2003, 10, .	0.2	2

#	ARTICLE	IF	CITATIONS
37	The Gibbsâ€œWilbraham phenomenon in the approximation of $\int_0^1 x^2 dx$ by using Lagrange interpolation on the Chebyshevâ€œLobatto nodal systems. <i>Journal of Computational and Applied Mathematics</i> , 2022, 414, 114493.	2.0	0
38	Extension inside the disk of asymptotics for Sobolev orthogonal polynomials. <i>Computers and Mathematics With Applications</i> , 2003, 46, 1263-1272.	2.7	1
39	A necessary condition for the extension of SzegÅ’s asymptotics inside the disk in the Sobolev case. <i>Journal of Computational and Applied Mathematics</i> , 2003, 153, 73-78.	2.0	1
40	Asymptotic properties of Chebyshevâ€œSobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2005, 178, 63-74.	2.0	1
41	Connections between Interval and Unit Circle for Sobolev Orthogonal Polynomials. Strong Asymptotics on the Real Line. <i>Acta Applicandae Mathematicae</i> , 2005, 86, 221-236.	1.0	1
42	Quasi-orthogonality properties and orthogonality with respect to the Chebyshev perturbation of a Bernstein measure. <i>Integral Transforms and Special Functions</i> , 2006, 17, 485-497.	1.2	1
43	About a system of anti-periodic trigonometric functions. <i>Computers and Mathematics With Applications</i> , 2008, 56, 1526-1537.	2.7	1
44	Characterizing curves satisfying the Gaussâ€œChristoffel theorem. <i>Journal of Computational and Applied Mathematics</i> , 2009, 233, 630-633.	2.0	1
45	About Nodal Systems for Lagrange Interpolation on the Circle. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-11.	0.9	1
46	Asymptotic constants for the error of Hermite-FejÅ interpolation on the unit circle. <i>Electronic Notes in Discrete Mathematics</i> , 2013, 43, 397-400.	0.4	1
47	Modified Gauss rules for approximate calculation of some strongly singular integrals. <i>Electronic Notes in Discrete Mathematics</i> , 2013, 43, 411-416.	0.4	1
48	Hermite Interpolation on the Unit Circle Considering up to the Second Derivative. <i>ISRN Mathematical Analysis</i> , 2014, 2014, 1-10.	0.4	1
49	Algorithms, Convergence and Rate of Convergence for an Interpolation Model Between Lagrange and Hermite. <i>Results in Mathematics</i> , 2018, 73, 1.	0.8	1
50	A generalization of the associated functional to the Lebesgue measure. <i>Journal of Computational and Applied Mathematics</i> , 1995, 57, 283-291.	2.0	0
51	Kernels on the unit circle. Orthogonality. <i>Journal of Computational and Applied Mathematics</i> , 1996, 72, 407-420.	2.0	0
52	Title is missing!. <i>Acta Applicandae Mathematicae</i> , 2000, 61, 81-86.	1.0	0
53	Differential properties for Sobolev orthogonality on the unit circle. <i>Journal of Computational and Applied Mathematics</i> , 2001, 133, 231-239.	2.0	0
54	Differential properties for a class of Sobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2002, 146, 361-372.	2.0	0

#	ARTICLE	IF	CITATIONS
55	Asymptotics on the support for sobolev orthogonal polynomials on a bounded interval. Computers and Mathematics With Applications, 2005, 50, 381-391.	2.7	0
56	Characterizing orthogonality measures on the bounded interval $<sup>1</sup>$ . Integral Transforms and Special Functions, 2008, 19, 351-366.	1.2	0
57	Complex measures having quadrature formulae with optimal exactness. Acta Mathematica Hungarica, 2010, 126, 51-64.	0.5	0
58	A bi-orthogonal system of trigonometric functions. Integral Transforms and Special Functions, 2010, 21, 57-74.	1.2	0
59	Quadrature rules for polynomial modifications of Bernstein measures exact for analytic functions. Integral Transforms and Special Functions, 2010, 21, 409-422.	1.2	0
60	A note on the rate of convergence for Chebyshev-Lobatto and Radau systems. Open Mathematics, 2016, 14, 156-166.	1.0	0