

Elias Berriochoa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/560265/publications.pdf>

Version: 2024-02-01

53
papers

165
citations

1307594

7
h-index

1372567

10
g-index

54
all docs

54
docs citations

54
times ranked

50
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong Asymptotics for the Continuous Sobolev Orthogonal Polynomials on the Unit Circle. Journal of Approximation Theory, 1999, 100, 381-391.	0.8	11
2	Algorithms for solving Hermite interpolation problems using the Fast Fourier Transform. Journal of Computational and Applied Mathematics, 2010, 235, 882-894.	2.0	11
3	Shooting out the slate: working with flaked arrowheads made on thin-layered rocks. Journal of Archaeological Science, 2011, 38, 1939-1948.	2.4	11
4	Connection between orthogonal polynomials on the unit circle and bounded interval. Journal of Computational and Applied Mathematics, 2005, 177, 205-223.	2.0	10
5	Gibbs phenomenon in the Hermite interpolation on the circle. Applied Mathematics and Computation, 2015, 253, 274-286.	2.2	9
6	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
7	Lebesgue Sobolev orthogonality on the unit circle. Journal of Computational and Applied Mathematics, 1998, 96, 27-34.	2.0	7
8	A family of Sobolev orthogonal polynomials on the unit circle. Journal of Computational and Applied Mathematics, 1999, 105, 163-173.	2.0	7
9	A characterization of the four Chebyshev orthogonal families. International Journal of Mathematics and Mathematical Sciences, 2005, 2005, 2071-2079.	0.7	7
10	A new numerical quadrature formula on the unit circle. Numerical Algorithms, 2007, 44, 391-401.	1.9	5
11	An Extension of Fejér's Condition for Hermite Interpolation. Complex Analysis and Operator Theory, 2012, 6, 651-664.	0.6	5
12	Rate of Convergence of Hermite-Fejér Interpolation on the Unit Circle. Journal of Applied Mathematics, 2013, 2013, 1-8.	0.9	5
13	Gibbs-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
14	Strong asymptotics inside the unit disk for Sobolev orthogonal polynomials. Computers and Mathematics With Applications, 2002, 44, 253-261.	2.7	4
15	On the Strong Asymptotics for Sobolev Orthogonal Polynomials on the Circle. Constructive Approximation, 2003, 19, 299-307.	3.0	4
16	An interpolation problem on the circle between Lagrange and Hermite problems. Journal of Approximation Theory, 2017, 215, 118-144.	0.8	4
17	Polynomials with minimal norm and new results in Szegő's theory. Complex Variables and Elliptic Equations, 2000, 43, 151-167.	0.2	3
18	Algorithms and convergence for Hermite interpolation based on extended Chebyshev nodal systems. Applied Mathematics and Computation, 2014, 234, 223-236.	2.2	3

#	ARTICLE	IF	CITATIONS
19	Gauss rules associated with nearly singular weights. Applied Numerical Mathematics, 2015, 91, 1-10.	2.1	3
20	Convergence of Hermite interpolants on the circle using two derivatives. Journal of Computational and Applied Mathematics, 2015, 284, 58-68.	2.0	3
21	Gibbs's 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
22	Mechanical Models for Hermite Interpolation on the Unit Circle. Mathematics, 2021, 9, 1043.	2.2	3
23	Nodal systems with maximal domain of exactness for Gaussian quadrature formulas. Journal of Computational and Applied Mathematics, 2008, 212, 272-281.	2.0	2
24	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
25	Chebyshev series method for computing weighted quadrature formulas. Applied Mathematics and Computation, 2011, 218, 4437-4447.	2.2	2
26	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
27	On the asymptotic constant for the rate of Hermite's Fejér convergence on Chebyshev nodes. Acta Mathematica Hungarica, 2015, 147, 32-45.	0.5	2
28	Szegő's transformation and zeros of analytic perturbations of Chebyshev weights. Journal of Mathematical Analysis and Applications, 2019, 470, 571-583.	1.0	2
29	Classical Lagrange Interpolation Based on General Nodal Systems at Perturbed Roots of Unity. Mathematics, 2020, 8, 498.	2.2	2
30	A SYSTEM OF BIORTHOGONAL TRIGONOMETRIC POLYNOMIALS. , 2007, , .		2
31	The Gibbs-Wilbraham phenomenon in the approximation of $\int_0^1 x^{\alpha} dx$ by using Lagrange interpolation on the Chebyshev-Lobatto nodal systems. Journal of Computational and Applied Mathematics, 2022, 414, 1144-1149.	2.0	2
32	Bernstein-szegő-lebesgue sobolev orthogonal polynomials on the unit circle. Journal of Difference Equations and Applications, 2000, 6, 719-737.	1.1	1
33	Extension inside the disk of asymptotics for Sobolev orthogonal polynomials. Computers and Mathematics With Applications, 2003, 46, 1263-1272.	2.7	1
34	A necessary condition for the extension of Szegő's asymptotics inside the disk in the Sobolev case. Journal of Computational and Applied Mathematics, 2003, 153, 73-78.	2.0	1
35	Asymptotic properties of Chebyshev-Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 2005, 178, 63-74.	2.0	1
36	Connections between Interval and Unit Circle for Sobolev Orthogonal Polynomials. Strong Asymptotics on the Real Line. Acta Applicandae Mathematicae, 2005, 86, 221-236.	1.0	1

#	ARTICLE	IF	CITATIONS
37	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
38	About a system of anti-periodic trigonometric functions. <i>Computers and Mathematics With Applications</i> , 2008, 56, 1526-1537.	2.7	1
39	Characterizing curves satisfying the Gauss-Christoffel theorem. <i>Journal of Computational and Applied Mathematics</i> , 2009, 233, 630-633.	2.0	1
40	About Nodal Systems for Lagrange Interpolation on the Circle. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-11.	0.9	1
41	Asymptotic constants for the error of Hermite-Fejér interpolation on the unit circle. <i>Electronic Notes in Discrete Mathematics</i> , 2013, 43, 397-400.	0.4	1
42	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
43	Hermite Interpolation on the Unit Circle Considering up to the Second Derivative. <i>ISRN Mathematical Analysis</i> , 2014, 2014, 1-10.	0.4	1
44	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
45	A study of the generalized Christoffel functions with applications. <i>Methods and Applications of Analysis</i> , 1999, 6, 327-336.	0.5	1
46	Title is missing!. <i>Acta Applicandae Mathematicae</i> , 2000, 61, 81-86.	1.0	0
47	Differential properties for Sobolev orthogonality on the unit circle. <i>Journal of Computational and Applied Mathematics</i> , 2001, 133, 231-239.	2.0	0
48	Differential properties for a class of Sobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2002, 146, 361-372.	2.0	0
49	Asymptotics on the support for sobolev orthogonal polynomials on a bounded interval. <i>Computers and Mathematics With Applications</i> , 2005, 50, 381-391.	2.7	0
50	Complex measures having quadrature formulae with optimal exactness. <i>Acta Mathematica Hungarica</i> , 2010, 126, 51-64.	0.5	0
51	A bi-orthogonal system of trigonometric functions. <i>Integral Transforms and Special Functions</i> , 2010, 21, 57-74.	1.2	0
52	Quadrature rules for polynomial modifications of Bernstein measures exact for analytic functions. <i>Integral Transforms and Special Functions</i> , 2010, 21, 409-422.	1.2	0
53	A note on the rate of convergence for Chebyshev-Lobatto and Radau systems. <i>Open Mathematics</i> , 2016, 14, 156-166.	1.0	0