

Teresa E Perez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2820901/publications.pdf>

Version: 2024-02-01

52
papers

462
citations

759233

12
h-index

839539

18
g-index

53
all docs

53
docs citations

53
times ranked

112
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymptotics of Sobolev Orthogonal Polynomials for Coherent Pairs of Measures. Journal of Approximation Theory, 1998, 92, 280-293.	0.8	36
2	On Sobolev Orthogonality for the Generalized Laguerre Polynomials. Journal of Approximation Theory, 1996, 86, 278-285.	0.8	29
3	Laguerre-Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 1996, 71, 245-265.	2.0	26
4	Sobolev orthogonality for the Gegenbauer polynomials $\{C_n(\hat{\alpha}^2 N+12)\}_{n \geq 0}$. Journal of Computational and Applied Mathematics, 1998, 100, 111-120.	2.0	25
5	On Koornwinder classical orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2012, 236, 3817-3826.	2.0	22
6	Weak classical orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2005, 178, 191-203.	2.0	18
7	Weighted Sobolev orthogonal polynomials on the unit ball. Journal of Approximation Theory, 2013, 171, 84-104.	0.8	18
8	Classical orthogonal polynomials in two variables: a matrix approach. Numerical Algorithms, 2005, 39, 131-142.	1.9	17
9	What is beyond coherent pairs of orthogonal polynomials?. Journal of Computational and Applied Mathematics, 1995, 65, 267-277.	2.0	16
10	Krall-type orthogonal polynomials in several variables. Journal of Computational and Applied Mathematics, 2010, 233, 1519-1524.	2.0	14
11	General Sobolev Orthogonal Polynomials. Journal of Mathematical Analysis and Applications, 1996, 200, 614-634.	1.0	13
12	Asymptotics of Sobolev Orthogonal Polynomials for Coherent Pairs of Laguerre Type. Journal of Mathematical Analysis and Applications, 2000, 245, 528-546.	1.0	13
13	Sobolev orthogonal polynomials on product domains. Journal of Computational and Applied Mathematics, 2015, 284, 202-215.	2.0	13
14	An asymptotic result for Laguerre-Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 1997, 87, 87-94.	2.0	12
15	Second order partial differential equations for gradients of orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2007, 199, 113-121.	2.0	11
16	Orthogonal polynomials in two variables as solutions of higher order partial differential equations. Journal of Approximation Theory, 2011, 163, 84-97.	0.8	11
17	A class of orthogonal functions given by a three term recurrence formula. Mathematics of Computation, 2015, 85, 1837-1859.	2.1	11
18	Global properties of zeros for Sobolev-type orthogonal polynomials. Journal of Computational and Applied Mathematics, 1993, 49, 225-232.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Methods for the rapid solution of the pricing PIDEs in exponential and Merton models. <i>Journal of Computational and Applied Mathematics</i> , 2008, 222, 128-143.	2.0	10
20	Three Term Relations for a Class of Bivariate Orthogonal Polynomials. <i>Mediterranean Journal of Mathematics</i> , 2017, 14, 1.	0.8	10
21	Sobolev orthogonal polynomials on the unit ball via outward normal derivatives. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 440, 716-740.	1.0	9
22	Asymptotics of Sobolev orthogonal polynomials for Hermite coherent pairs. <i>Journal of Computational and Applied Mathematics</i> , 2001, 133, 141-150.	2.0	8
23	Semiclassical orthogonal polynomials in two variables. <i>Journal of Computational and Applied Mathematics</i> , 2007, 207, 323-330.	2.0	8
24	Orthogonal polynomials in several variables for measures with mass points. <i>Numerical Algorithms</i> , 2010, 55, 245-264.	1.9	8
25	Regular Sobolev Type Orthogonal Polynomials: The Bessel Case. <i>Rocky Mountain Journal of Mathematics</i> , 1995, 25, 1431.	0.4	7
26	A matrix Rodrigues formula for classical orthogonal polynomials in two variables. <i>Journal of Approximation Theory</i> , 2009, 157, 32-52.	0.8	7
27	New steps on Sobolev orthogonality in two variables. <i>Journal of Computational and Applied Mathematics</i> , 2010, 235, 916-926.	2.0	7
28	A semiclassical perspective on multivariate orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2008, 214, 447-456.	2.0	6
29	On the Uvarov Modification of Two Variable Orthogonal Polynomials on the Disk. <i>Complex Analysis and Operator Theory</i> , 2012, 6, 665-676.	0.6	6
30	On bivariate classical orthogonal polynomials. <i>Applied Mathematics and Computation</i> , 2018, 325, 340-357.	2.2	6
31	Gegenbauer-Sobolev Orthogonal Polynomials. , 1994, , 71-82.		6
32	Bivariate orthogonal polynomials in the Lyskova class. <i>Journal of Computational and Applied Mathematics</i> , 2009, 233, 597-601.	2.0	5
33	Sobolev-type orthogonal polynomials on the unit ball. <i>Journal of Approximation Theory</i> , 2013, 170, 94-106.	0.8	5
34	On linearly related orthogonal polynomials in several variables. <i>Numerical Algorithms</i> , 2014, 66, 525-553.	1.9	5
35	Matrix Pearson Equations Satisfied by Koornwinder Weights in Two Variables. <i>Acta Applicandae Mathematicae</i> , 2018, 153, 81-100.	1.0	5
36	Hermite Interpolation and Sobolev Orthogonality. <i>Acta Applicandae Mathematicae</i> , 2000, 61, 87-99.	1.0	4

#	ARTICLE	IF	CITATIONS
37	A generating function for nonstandard orthogonal polynomials involving differences: the Meixner case. <i>Ramanujan Journal</i> , 2011, 25, 21-35.	0.7	4
38	The radial part of a class of Sobolev polynomials on the unit ball. <i>Numerical Algorithms</i> , 2021, 87, 1369-1389.	1.9	3
39	Orthogonal Polynomials Associated with a \hat{P} -Sobolev Inner Product. <i>Journal of Difference Equations and Applications</i> , 2002, 8, 125-151.	1.1	2
40	Zeros of Jacobi-Sobolev orthogonal polynomials following non-coherent pair of measures. <i>Computational and Applied Mathematics</i> , 2010, 29, .	2.2	2
41	Fourth order partial differential equations for Krall-type orthogonal polynomials on the triangle. <i>Proceedings of the American Mathematical Society</i> , 2018, 146, 3961-3974.	0.8	2
42	Coherent pairs of bivariate orthogonal polynomials. <i>Journal of Approximation Theory</i> , 2019, 245, 40-63.	0.8	2
43	Multivariate Orthogonal Polynomials and Modified Moment Functionals. <i>Symmetry, Integrability and Geometry: Methods and Applications (SIGMA)</i> , 0, , .	0.5	2
44	Bivariate Koornwinderâ€™Sobolev Orthogonal Polynomials. <i>Mediterranean Journal of Mathematics</i> , 2021, 18, 1.	0.8	2
45	Nondiagonal Hermiteâ€™Sobolev Orthogonal Polynomials. <i>Acta Applicandae Mathematicae</i> , 2000, 61, 257-266.	1.0	1
46	On differential properties for bivariate orthogonal polynomials. <i>Numerical Algorithms</i> , 2007, 45, 153-166.	1.9	1
47	Stieltjes functions and discrete classical orthogonal polynomials. <i>Computational and Applied Mathematics</i> , 2013, 32, 537-547.	1.3	1
48	Bivariate orthogonal polynomials, 2D Toda lattices and Lax-type pairs. <i>Applied Mathematics and Computation</i> , 2017, 309, 142-155.	2.2	1
49	On higher order PadÃ©-type approximants with some prescribed coefficients in the numerator. <i>Numerical Algorithms</i> , 1992, 3, 345-352.	1.9	0
50	Title is missing!. <i>Acta Applicandae Mathematicae</i> , 2000, 61, 3-14.	1.0	0
51	Geronimus transformations of bivariate linear functionals. <i>Journal of Mathematical Analysis and Applications</i> , 2020, 484, 123736.	1.0	0
52	Mixed orthogonality on the unit ball. <i>Computational and Applied Mathematics</i> , 2021, 40, 1.	2.2	0