

# Teresa E Perez

## List of Publications by Year in descending order

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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	The radial part of a class of Sobolev polynomials on the unit ball. Numerical Algorithms, 2021, 87, 1369-1389.	1.9	3
2	Bivariate Koornwinder's Sobolev Orthogonal Polynomials. Mediterranean Journal of Mathematics, 2021, 18, 1.	0.8	2
3	Mixed orthogonality on the unit ball. Computational and Applied Mathematics, 2021, 40, 1.	2.2	0
4	Geronimus transformations of bivariate linear functionals. Journal of Mathematical Analysis and Applications, 2020, 484, 123736.	1.0	0
5	Coherent pairs of bivariate orthogonal polynomials. Journal of Approximation Theory, 2019, 245, 40-63.	0.8	2
6	On bivariate classical orthogonal polynomials. Applied Mathematics and Computation, 2018, 325, 340-357.	2.2	6
7	Matrix Pearson Equations Satisfied by Koornwinder Weights in Two Variables. Acta Applicandae Mathematicae, 2018, 153, 81-100.	1.0	5
8	Fourth order partial differential equations for Krall-type orthogonal polynomials on the triangle. Proceedings of the American Mathematical Society, 2018, 146, 3961-3974.	0.8	2
9	Bivariate orthogonal polynomials, 2D Toda lattices and Lax-type pairs. Applied Mathematics and Computation, 2017, 309, 142-155.	2.2	1
10	Three Term Relations for a Class of Bivariate Orthogonal Polynomials. Mediterranean Journal of Mathematics, 2017, 14, 1.	0.8	10
11	Sobolev orthogonal polynomials on the unit ball via outward normal derivatives. Journal of Mathematical Analysis and Applications, 2016, 440, 716-740.	1.0	9
12	A class of orthogonal functions given by a three term recurrence formula. Mathematics of Computation, 2015, 85, 1837-1859.	2.1	11
13	Sobolev orthogonal polynomials on product domains. Journal of Computational and Applied Mathematics, 2015, 284, 202-215.	2.0	13
14	On linearly related orthogonal polynomials in several variables. Numerical Algorithms, 2014, 66, 525-553.	1.9	5
15	Stieltjes functions and discrete classical orthogonal polynomials. Computational and Applied Mathematics, 2013, 32, 537-547.	1.3	1
16	Weighted Sobolev orthogonal polynomials on the unit ball. Journal of Approximation Theory, 2013, 171, 84-104.	0.8	18
17	Sobolev-type orthogonal polynomials on the unit ball. Journal of Approximation Theory, 2013, 170, 94-106.	0.8	5
18	On the Uvarov Modification of Two Variable Orthogonal Polynomials on the Disk. Complex Analysis and Operator Theory, 2012, 6, 665-676.	0.6	6

#	ARTICLE	IF	CITATIONS
19	On Koornwinder classical orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2012, 236, 3817-3826.	2.0	22
20	A generating function for nonstandard orthogonal polynomials involving differences: the Meixner case. Ramanujan Journal, 2011, 25, 21-35.	0.7	4
21	Orthogonal polynomials in two variables as solutions of higher order partial differential equations. Journal of Approximation Theory, 2011, 163, 84-97.	0.8	11
22	New steps on Sobolev orthogonality in two variables. Journal of Computational and Applied Mathematics, 2010, 235, 916-926.	2.0	7
23	Orthogonal polynomials in several variables for measures with mass points. Numerical Algorithms, 2010, 55, 245-264.	1.9	8
24	Krall-type orthogonal polynomials in several variables. Journal of Computational and Applied Mathematics, 2010, 233, 1519-1524.	2.0	14
25	Zeros of Jacobi-Sobolev orthogonal polynomials following non-coherent pair of measures. Computational and Applied Mathematics, 2010, 29, .	2.2	2
26	A matrix Rodrigues formula for classical orthogonal polynomials in two variables. Journal of Approximation Theory, 2009, 157, 32-52.	0.8	7
27	Bivariate orthogonal polynomials in the Lyskova class. Journal of Computational and Applied Mathematics, 2009, 233, 597-601.	2.0	5
28	A semiclassical perspective on multivariate orthogonal polynomials. Journal of Computational and Applied Mathematics, 2008, 214, 447-456.	2.0	6
29	Methods for the rapid solution of the pricing PIDEs in exponential and Merton models. Journal of Computational and Applied Mathematics, 2008, 222, 128-143.	2.0	10
30	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
31	Semiclassical orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2007, 207, 323-330.	2.0	8
32	On differential properties for bivariate orthogonal polynomials. Numerical Algorithms, 2007, 45, 153-166.	1.9	1
33	Weak classical orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2005, 178, 191-203.	2.0	18
34	Classical orthogonal polynomials in two variables: a matrix approach. Numerical Algorithms, 2005, 39, 131-142.	1.9	17
35	Orthogonal Polynomials Associated with a $\hat{\Gamma}^n$ -Sobolev Inner Product. Journal of Difference Equations and Applications, 2002, 8, 125-151.	1.1	2
36	Asymptotics of Sobolev orthogonal polynomials for Hermite coherent pairs. Journal of Computational and Applied Mathematics, 2001, 133, 141-150.	2.0	8

#	ARTICLE	IF	CITATIONS
37	Asymptotics of Sobolev Orthogonal Polynomials for Coherent Pairs of Laguerre Type. Journal of Mathematical Analysis and Applications, 2000, 245, 528-546.	1.0	13
38	Title is missing!. Acta Applicandae Mathematicae, 2000, 61, 3-14.	1.0	0
39	Hermite Interpolation and Sobolev Orthogonality. Acta Applicandae Mathematicae, 2000, 61, 87-99.	1.0	4
40	Nondiagonal Hermite Sobolev Orthogonal Polynomials. Acta Applicandae Mathematicae, 2000, 61, 257-266.	1.0	1
41	Asymptotics of Sobolev Orthogonal Polynomials for Coherent Pairs of Measures. Journal of Approximation Theory, 1998, 92, 280-293.	0.8	36
42	Sobolev orthogonality for the Gegenbauer polynomials $\{C_n(\tilde{\alpha}^2 N+12)\}_{n \geq 0}$ . Journal of Computational and Applied Mathematics, 1998, 100, 111-120.	2.0	25
43	An asymptotic result for Laguerre-Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 1997, 87, 87-94.	2.0	12
44	On Sobolev Orthogonality for the Generalized Laguerre Polynomials. Journal of Approximation Theory, 1996, 86, 278-285.	0.8	29
45	General Sobolev Orthogonal Polynomials. Journal of Mathematical Analysis and Applications, 1996, 200, 614-634.	1.0	13
46	Laguerre-Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 1996, 71, 245-265.	2.0	26
47	Regular Sobolev Type Orthogonal Polynomials: The Bessel Case. Rocky Mountain Journal of Mathematics, 1995, 25, 1431.	0.4	7
48	What is beyond coherent pairs of orthogonal polynomials?. Journal of Computational and Applied Mathematics, 1995, 65, 267-277.	2.0	16
49	Gegenbauer-Sobolev Orthogonal Polynomials. , 1994, , 71-82.		6
50	Global properties of zeros for Sobolev-type orthogonal polynomials. Journal of Computational and Applied Mathematics, 1993, 49, 225-232.	2.0	10
51	On higher order Padé-type approximants with some prescribed coefficients in the numerator. Numerical Algorithms, 1992, 3, 345-352.	1.9	0
52	Multivariate Orthogonal Polynomials and Modified Moment Functionals. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	2