Miguel A Pinar

List of Publications by Year
in descending order

58	497	686830 13	839053 18
papers	citations	h-index	g-index

59	59	59	100
all docs	docs citations	times ranked	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.	1.1	3
2	Sobolev Orthogonal Polynomials of Several Variables on Product Domains. Mediterranean Journal of Mathematics, 2021, 18, 1.	0.4	3
3	Bivariate Koornwinderâ€“Sobolev Orthogonal Polynomials. Mediterranean Journal of Mathematics, 2021, 18, 1.	0.4	2
4	Geronimus transformations of bivariate linear functionals. Journal of Mathematical Analysis and Applications, 2020, 484, 123736.	0.5	0
5	Coherent pairs of bivariate orthogonal polynomials. Journal of Approximation Theory, 2019, 245, 40-63.	0.5	2
6	Asymptotic Behaviour of the Christoffel Functions on the Unit Ball in the Presence of a Mass on the Sphere. Mediterranean Journal of Mathematics, 2019, 16, 1.	0.4	0
7	On bivariate classical orthogonal polynomials. Applied Mathematics and Computation, 2018, 325, 340-357.	1.4	6
8	Matrix Pearson Equations Satisfied by Koornwinder Weights in Two Variables. Acta Applicandae Mathematicae, 2018, 153, 81-100.	0.5	5
9	Best polynomial approximation on the unit ball. IMA Journal of Numerical Analysis, 2018, 38, 1209-1228.	1.5	2
10	Three Term Relations for a Class of Bivariate Orthogonal Polynomials. Mediterranean Journal of Mathematics, 2017, 14, 1.	0.4	10
11	Sobolev orthogonal polynomials on the unit ball via outward normal derivatives. Journal of Mathematical Analysis and Applications, 2016, 440, 716-740.	0.5	9
12	Sobolev orthogonal polynomials on product domains. Journal of Computational and Applied Mathematics, 2015, 284, 202-215.	1.1	13
13	A higher order Sobolev-type inner product for orthogonal polynomials in several variables. Numerical Algorithms, 2015, 68, 35-46.	1.1	2
14	Stieltjes functions and discrete classical orthogonal polynomials. Computational and Applied Mathematics, 2013, 32, 537-547.	1.3	1
15	Weighted Sobolev orthogonal polynomials on the unit ball. Journal of Approximation Theory, 2013, 171, 84-104.	0.5	18
16	Sobolev-type orthogonal polynomials on the unit ball. Journal of Approximation Theory, 2013, 170, 94-106.	0.5	5
17	On the Uvarov Modification of Two Variable Orthogonal Polynomials on the Disk. Complex Analysis and Operator Theory, 2012, 6, 665-676.	0.3	6
18	On Koornwinder classical orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2012, 236, 3817-3826.	1.1	22

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19	A generating function for nonstandard orthogonal polynomials involving differences: the Meixner case. Ramanujan Journal, 2011, 25, 21-35.	0.4	4
20	Orthogonal polynomials in two variables as solutions of higher order partial differential equations. Journal of Approximation Theory, 2011, 163, 84-97.	0.5	11
21	New steps on Sobolev orthogonality in two variables. Journal of Computational and Applied Mathematics, 2010, 235, 916-926.	1.1	7
22	SzegÅ‘ type polynomials and para-orthogonal polynomials. Journal of Mathematical Analysis and Applications, 2010, 370, 30-41.	0.5	5
23	Orthogonal polynomials in several variables for measures with mass points. Numerical Algorithms, 2010, 55, 245-264.	1.1	8
24	Krall-type orthogonal polynomials in several variables. Journal of Computational and Applied Mathematics, 2010, 233, 1519-1524.	1.1	14
25	A matrix Rodrigues formula for classical orthogonal polynomials in two variables. Journal of Approximation Theory, 2009, 157, 32-52.	0.5	7
26	Bivariate orthogonal polynomials in the Lyskova class. Journal of Computational and Applied Mathematics, 2009, 233, 597-601.	1.1	5
27	Orthogonal polynomials and partial differential equations on the unit ball. Proceedings of the American Mathematical Society, 2009, 137, 2979-2979.	0.4	14
28	A semiclassical perspective on multivariate orthogonal polynomials. Journal of Computational and Applied Mathematics, 2008, 214, 447-456.	1.1	6
29	Second order partial differential equations for gradients of orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2007, 199, 113-121.	1.1	11
30	Semiclassical orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2007, 207, 323-330.	1.1	8
31	On differential properties for bivariate orthogonal polynomials. Numerical Algorithms, 2007, 45, 153-166.	1.1	1
32	Weak classical orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2005, 178, 191-203.	1.1	18
33	Classical orthogonal polynomials in two variables: a matrix approach. Numerical Algorithms, 2005, 39, 131-142.	1.1	17
34	A generating function for Laguerreâ€“Sobolev orthogonal polynomials. Journal of Approximation Theory, 2003, 120, 111-123.	0.5	4
35	Orthogonal Polynomials Associated with a Î”-Sobolev Inner Product. Journal of Difference Equations and Applications, 2002, 8, 125-151.	0.7	2
36	Asymptotics of Sobolev orthogonal polynomials for Hermite coherent pairs. Journal of Computational and Applied Mathematics, 2001, 133, 141-150.	1.1	8

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37	Perturbations in the Nevai matrix class of orthogonal matrix polynomials. Linear Algebra and Its Applications, 2001, 336, 231-254.	0.4	9
38	Relative Asymptotics for Orthogonal Matrix Polynomials with Convergent Recurrence Coefficients. Journal of Approximation Theory, 2001, 111, 1-30.	0.5	13
39	Asymptotics of Sobolev Orthogonal Polynomials for Coherent Pairs of Laguerre Type. Journal of Mathematical Analysis and Applications, 2000, 245, 528-546.	0.5	13
40	Title is missing!. Acta Applicandae Mathematicae, 2000, 61, 3-14.	0.5	0
41	Hermite Interpolation and Sobolev Orthogonality. Acta Applicandae Mathematicae, 2000, 61, 87-99.	0.5	4
42	Nondiagonal Hermiteâ€“Sobolev Orthogonal Polynomials. Acta Applicandae Mathematicae, 2000, 61, 257-266.	0.5	1
43	Asymptotics of Sobolev orthogonal polynomials for coherent pairs of Jacobi type. Journal of Computational and Applied Mathematics, 1999, 108, 87-97.	1.1	7
44	Asymptotics of Sobolev Orthogonal Polynomials for Coherent Pairs of Measures. Journal of Approximation Theory, 1998, 92, 280-293.	0.5	36
45	Sobolev orthogonality for the Gegenbauer polynomials {Cn(â^'N+12)}nâ©¾0. Journal of Computational and Applied Mathematics, 1998, 100, 111-120.	1.1	25
46	An asymptotic result for Laguerre-Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 1997, 87, 87-94.	1.1	12
47	On Sobolev Orthogonality for the Generalized Laguerre Polynomials. Journal of Approximation Theory, 1996, 86, 278-285.	0.5	29
48	General Sobolev Orthogonal Polynomials. Journal of Mathematical Analysis and Applications, 1996, 200, 614-634.	0.5	13
49	Laguerre-Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 1996, 71, 245-265.	1.1	26
50	Regular Sobolev Type Orthogonal Polynomials: The Bessel Case. Rocky Mountain Journal of Mathematics, 1995, 25, 1431.	0.2	7
51	What is beyond coherent pairs of orthogonal polynomials?. Journal of Computational and Applied Mathematics, 1995, 65, 267-277.	1.1	16
52	Gegenbauer-Sobolev Orthogonal Polynomials. , 1994, , 71-82.		6
53	Global properties of zeros for Sobolev-type orthogonal polynomials. Journal of Computational and Applied Mathematics, 1993, 49, 225-232.	1.1	10
54	On higher order PadÃ©-type approximants with some prescribed coefficients in the numerator. Numerical Algorithms, 1992, 3, 345-352.	1.1	0

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55	Matrix interpretation of formal orthogonal polynomials for non-definite functionals. Journal of Computational and Applied Mathematics, 1987, 18, 265-277.	1.1	2
56	Some aspects of the eigenfunction normalization in the problem of the particle moving in free space, revisited. Journal of Chemical Education, 1986, 63, 759.	1.1	0
57	Orthogonal Polynomials on the Unit Ball and Fourth-Order Partial Differential Equations. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	5
58	Multivariate Orthogonal Polynomials and Modified Moment Functionals. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	2