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	Asymptotics of Sobolev Orthogonal Polynomials for Coherent Pairs of Measures. Journal of Approximation Theory, 1998, 92, 280-293.	0.5	36
2	On Sobolev Orthogonality for the Generalized Laguerre Polynomials. Journal of Approximation Theory, 1996, 86, 278-285.	0.5	29
3	Laguerre-Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 1996, 71, 245-265.	1.1	26
4	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
5	On Koornwinder classical orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2012, 236, 3817-3826.	1.1	22
6	Weak classical orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2005, 178, 191-203.	1.1	18
7	Weighted Sobolev orthogonal polynomials on the unit ball. Journal of Approximation Theory, 2013, 171, 84-104.	0.5	18
8	Classical orthogonal polynomials in two variables: a matrix approach. Numerical Algorithms, 2005, 39, 131-142.	1.1	17
9	What is beyond coherent pairs of orthogonal polynomials?. Journal of Computational and Applied Mathematics, 1995, 65, 267-277.	1.1	16
10	Orthogonal polynomials and partial differential equations on the unit ball. Proceedings of the American Mathematical Society, 2009, 137, 2979-2979.	0.4	14
11	Krall-type orthogonal polynomials in several variables. Journal of Computational and Applied Mathematics, 2010, 233, 1519-1524.	1.1	14
12	General Sobolev Orthogonal Polynomials. Journal of Mathematical Analysis and Applications, 1996, 200, 614-634.	0.5	13
13	Asymptotics of Sobolev Orthogonal Polynomials for Coherent Pairs of Laguerre Type. Journal of Mathematical Analysis and Applications, 2000, 245, 528-546.	0.5	13
14	Relative Asymptotics for Orthogonal Matrix Polynomials with Convergent Recurrence Coefficients. Journal of Approximation Theory, 2001, 111, 1-30.	0.5	13
15	Sobolev orthogonal polynomials on product domains. Journal of Computational and Applied Mathematics, 2015, 284, 202-215.	1.1	13
16	An asymptotic result for Laguerre-Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 1997, 87, 87-94.	1.1	12
17	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
18	Orthogonal polynomials in two variables as solutions of higher order partial differential equations. Journal of Approximation Theory, 2011, 163, 84-97.	0.5	11

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19	Global properties of zeros for Sobolev-type orthogonal polynomials. Journal of Computational and Applied Mathematics, 1993, 49, 225-232.	1.1	10
20	Three Term Relations for a Class of Bivariate Orthogonal Polynomials. Mediterranean Journal of Mathematics, 2017, 14, 1.	0.4	10
21	Perturbations in the Nevai matrix class of orthogonal matrix polynomials. Linear Algebra and Its Applications, 2001, 336, 231-254.	0.4	9
22	Sobolev orthogonal polynomials on the unit ball via outward normal derivatives. Journal of Mathematical Analysis and Applications, 2016, 440, 716-740.	0.5	9
23	Asymptotics of Sobolev orthogonal polynomials for Hermite coherent pairs. Journal of Computational and Applied Mathematics, 2001, 133, 141-150.	1.1	8
24	Semiclassical orthogonal polynomials in two variables. Journal of Computational and Applied Mathematics, 2007, 207, 323-330.	1.1	8
25	Orthogonal polynomials in several variables for measures with mass points. Numerical Algorithms, 2010, 55, 245-264.	1.1	8
26	Regular Sobolev Type Orthogonal Polynomials: The Bessel Case. Rocky Mountain Journal of Mathematics, 1995, 25, 1431.	0.2	7
27	Asymptotics of Sobolev orthogonal polynomials for coherent pairs of Jacobi type. Journal of Computational and Applied Mathematics, 1999, 108, 87-97.	1.1	7
28	A matrix Rodrigues formula for classical orthogonal polynomials in two variables. Journal of Approximation Theory, 2009, 157, 32-52.	0.5	7
29	New steps on Sobolev orthogonality in two variables. Journal of Computational and Applied Mathematics, 2010, 235, 916-926.	1.1	7
30	A semiclassical perspective on multivariate orthogonal polynomials. Journal of Computational and Applied Mathematics, 2008, 214, 447-456.	1.1	6
31	On the Uvarov Modification of Two Variable Orthogonal Polynomials on the Disk. Complex Analysis and Operator Theory, 2012, 6, 665-676.	0.3	6
32	On bivariate classical orthogonal polynomials. Applied Mathematics and Computation, 2018, 325, 340-357.	1.4	6
33	Gegenbauer-Sobolev Orthogonal Polynomials. , 1994, , 71-82.		6
34	Bivariate orthogonal polynomials in the Lyskova class. Journal of Computational and Applied Mathematics, 2009, 233, 597-601.	1.1	5
35	SzegÅ‘ type polynomials and para-orthogonal polynomials. Journal of Mathematical Analysis and Applications, 2010, 370, 30-41.	0.5	5
36	Sobolev-type orthogonal polynomials on the unit ball. Journal of Approximation Theory, 2013, 170, 94-106.	0.5	5

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37	Matrix Pearson Equations Satisfied by Koornwinder Weights in Two Variables. Acta Applicandae Mathematicae, 2018, 153, 81-100.	0.5	5
38	Orthogonal Polynomials on the Unit Ball and Fourth-Order Partial Differential Equations. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	5
39	Hermite Interpolation and Sobolev Orthogonality. Acta Applicandae Mathematicae, 2000, 61, 87-99.	0.5	4
40	A generating function for Laguerreâ€“Sobolev orthogonal polynomials. Journal of Approximation Theory, 2003, 120, 111-123.	0.5	4
41	A generating function for nonstandard orthogonal polynomials involving differences: the Meixner case. Ramanujan Journal, 2011, 25, 21-35.	0.4	4
42	The radial part of a class of Sobolev polynomials on the unit ball. Numerical Algorithms, 2021, 87, 1369-1389.	1.1	3
43	Sobolev Orthogonal Polynomials of Several Variables on Product Domains. Mediterranean Journal of Mathematics, 2021, 18, 1.	0.4	3
44	Matrix interpretation of formal orthogonal polynomials for non-definite functionals. Journal of Computational and Applied Mathematics, 1987, 18, 265-277.	1.1	2
45	Orthogonal Polynomials Associated with a Î”-Sobolev Inner Product. Journal of Difference Equations and Applications, 2002, 8, 125-151.	0.7	2
46	A higher order Sobolev-type inner product for orthogonal polynomials in several variables. Numerical Algorithms, 2015, 68, 35-46.	1.1	2
47	Best polynomial approximation on the unit ball. IMA Journal of Numerical Analysis, 2018, 38, 1209-1228.	1.5	2
48	Coherent pairs of bivariate orthogonal polynomials. Journal of Approximation Theory, 2019, 245, 40-63.	0.5	2
49	Multivariate Orthogonal Polynomials and Modified Moment Functionals. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	2
50	Bivariate Koornwinderâ€“Sobolev Orthogonal Polynomials. Mediterranean Journal of Mathematics, 2021, 18, 1.	0.4	2
51	Nondiagonal Hermiteâ€“Sobolev Orthogonal Polynomials. Acta Applicandae Mathematicae, 2000, 61, 257-266.	0.5	1
52	On differential properties for bivariate orthogonal polynomials. Numerical Algorithms, 2007, 45, 153-166.	1.1	1
53	Stieltjes functions and discrete classical orthogonal polynomials. Computational and Applied Mathematics, 2013, 32, 537-547.	1.3	1
54	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

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55	On higher order PadÃ©-type approximants with some prescribed coefficients in the numerator. Numerical Algorithms, 1992, 3, 345-352.	1.1	0
56	Title is missing!. Acta Applicandae Mathematicae, 2000, 61, 3-14.	0.5	0
57	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
58	Geronimus transformations of bivariate linear functionals. Journal of Mathematical Analysis and Applications, 2020, 484, 123736.	0.5	0