Juan José Moreno Balcázar

List of Publications by Year
in descending order

45	329	10	16
papers	citations	h-index	g-index

46	46	46	86
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Asymptotics and Zeros of Sobolev Orthogonal Polynomials on Unbounded Supports. Acta Applicandae Mathematicae, 2006, 94, 163-192.	1.0	40
2	Asymptotics of Sobolev Orthogonal Polynomials for Coherent Pairs of Measures. Journal of Approximation Theory, 1998, 92, 280-293.	0.8	36
3	Asymptotic properties of generalized Laguerre orthogonal polynomials. Indagationes Mathematicae, 2004, 15, 151-165.	0.4	28
4	Strong and Plancherel–Rotach Asymptotics of Non-diagonal Laguerre–Sobolev Orthogonal Polynomials. Journal of Approximation Theory, 2001, 110, 54-73.	0.8	15
5	Inner products involving q-differences: the little q-Laguerre–Sobolev polynomials. Journal of Computational and Applied Mathematics, 2000, 118, 1-22.	2.0	13
6	Laguerre–Sobolev orthogonal polynomials: asymptotics for coherent pairs of type II. Journal of Approximation Theory, 2003, 122, 79-96.	0.8	13
7	Asymptotics of Sobolev orthogonal polynomials for symmetrically coherent pairs of measures with compact support. Journal of Computational and Applied Mathematics, 1997, 81, 217-227.	2.0	12
8	Strong asymptotics for Gegenbauer-Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 1997, 81, 211-216.	2.0	12
9	On asymptotic properties of Freud–Sobolev orthogonal polynomials. Journal of Approximation Theory, 2003, 125, 26-41.	0.8	10
10	A new approach to the asymptotics of Sobolev type orthogonal polynomials. Journal of Approximation Theory, 2011, 163, 460-480.	0.8	10
11	Ratio and Plancherel–Rotach asymptotics for Meixner–Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 2000, 116, 63-75.	2.0	9
12	Modeling carbon dioxide for show cave conservation. Journal for Nature Conservation, 2019, 49, 76-84.	1.8	9
13	Asymptotics of Sobolev orthogonal polynomials for Hermite coherent pairs. Journal of Computational and Applied Mathematics, 2001, 133, 141-150.	2.0	8
14	Asymptotic formulae for generalized Freud polynomials. Journal of Mathematical Analysis and Applications, 2015, 421, 474-488.	1.0	8
15	Differential operator for discrete Gegenbauer–Sobolev orthogonal polynomials: Eigenvalues and asymptotics. Journal of Approximation Theory, 2018, 230, 32-49.	0.8	7
16	Asymptotics of Sobolev orthogonal polynomials for a Jacobi weight. Methods and Applications of Analysis, 1997, 4, 430-437.	0.5	7
17	Some asymptotics for Sobolev orthogonal polynomials involving Gegenbauer weights. Journal of Computational and Applied Mathematics, 2010, 235, 904-915.	2.0	6
18	Asymptotic behavior of varying discrete Jacobi–Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 2016, 300, 341-353.	2.0	6

#	Article	IF	Citations
19	Asymptotics for varying discrete Sobolev orthogonal polynomials. Applied Mathematics and Computation, 2017, 314, 65-79.	2.2	6
20	Linearization and Krein-like functionals of hypergeometric orthogonal polynomials. Journal of Mathematical Physics, 2018, 59, .	1.1	6
21	Smallest zeros of some types of orthogonal polynomials: asymptotics. Journal of Computational and Applied Mathematics, 2005, 179, 289-301.	2.0	5
22	Sobolev orthogonal polynomials: Balance and asymptotics. Transactions of the American Mathematical Society, 2008, 361, 547-560.	0.9	5
23	The semiclassical Sobolev orthogonal polynomials: A general approach. Journal of Approximation Theory, 2011, 163, 65-83.	0.8	5
24	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si44.gif" display="inline" overflow="scroll"><mml:mi>l</mml:mi></mml:math>-Meixner–Sobolev orthogonal polynomials: Mehler–Heine type formula and zeros. Journal of Computational and Applied Mathematics, 2015, 284, 228-234.	2.0	5
25	A Mehler–Heine-type formula for Hermite–Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 2003, 150, 25-35.	2.0	4
26	Asymptotics for a generalization of Hermite polynomials. Asymptotic Analysis, 2010, 66, 103-117.	0.5	4
27	A generating function for nonstandard orthogonal polynomials involving differences: the Meixner case. Ramanujan Journal, 2011, 25, 21-35.	0.7	4
28	Jacobi–Sobolev orthogonal polynomials: Asymptotics and a Cohen type inequality. Journal of Approximation Theory, 2013, 170, 78-93.	0.8	4
29	Analytic properties of nondiagonal Jacobi–Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 1999, 105, 393-401.	2.0	3
30	Varying discrete Laguerre–Sobolev orthogonal polynomials: Asymptotic behavior and zeros. Applied Mathematics and Computation, 2013, 222, 612-618.	2.2	3
31	On the zeros of a class of generalized hypergeometric polynomials. Applied Mathematics and Computation, 2015, 253, 151-158.	2.2	3
32	Ladder operators and a differential equation for varying generalized Freud-type orthogonal polynomials. Random Matrices: Theory and Application, 2018, 07, 1840005.	1.1	3
33	WHAT IS... a Sobolev Orthogonal Polynomial?. Notices of the American Mathematical Society, 2017, 64, 873-875.	0.2	3
34	A note on the zeros of Freud–Sobolev orthogonal polynomials. Journal of Computational and Applied Mathematics, 2007, 207, 338-344.	2.0	2
35	Asymptotics for Jacobi–Sobolev orthogonal polynomials associated with non-coherent pairs of measures. Journal of Approximation Theory, 2010, 162, 1945-1963.	0.8	2
36	Varying Jacobi–Krall orthogonal polynomials: local asymptotic behaviour and zeros. Ramanujan Journal, 2012, 28, 79-88.	0.7	2

#	Article	IF	Citations
37	Zeros of varying Laguerre–Krall orthogonal polynomials. Proceedings of the American Mathematical Society, 2013, 141, 2051-2060.	0.8	2
38	Eigenvalue Problem for Discrete Jacobi–Sobolev Orthogonal Polynomials. Mathematics, 2020, 8, 182.	2.2	2
39	Nondiagonal Hermite–Sobolev Orthogonal Polynomials. Acta Applicandae Mathematicae, 2000, 61, 257-266.	1.0	1
40	Classical Sobolev Orthogonal Polynomials: Eigenvalue Problem. Results in Mathematics, 2019, 74, 1.	0.8	1
41	Teaching polynomial fitting to a set of data via orthogonal polynomials. International Journal of Mathematical Education in Science and Technology, 1998, 29, 481-487.	1.4	0
42	ASYMPTOTICS AND ZEROS OF SYMMETRICALLY COHERENT PAIRS OF HERMITE TYPE. , 2007, , .		0
43	Fórmula do tipo Mehler–Heine para uma classe de polinômios hipergeométricos generalizados. , 0, , .		0
44	Sobolev Orthogonal Polynomials: Asymptotics and Symbolic Computation. East Asian Journal on Applied Mathematics, 2022, 12, 535-563.	0.9	0
45	Asymptotics for Some q-Hypergeometric Polynomials. Results in Mathematics, 2022, 77, .	0.8	0