

# Francisco Marcellan

## List of Publications by Year in descending order

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259  
papers

3,189  
citations

218592

26  
h-index

302012

39  
g-index

265  
all docs

265  
docs citations

265  
times ranked

383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Darboux transformation and perturbation of linear functionals. <i>Linear Algebra and Its Applications</i> , 2004, 384, 215-242.	0.4	117
2	On Sobolev orthogonal polynomials. , 2015, 33, 308-352.		98
3	Orthogonal polynomials on Sobolev spaces: old and new directions. <i>Journal of Computational and Applied Mathematics</i> , 1993, 48, 113-131.	1.1	79
4	Sur l'adjonction d'une masse de Dirac $\tilde{\delta}_i$ ; une forme $r\tilde{\delta}_i$ et semi-classique. <i>Annali Di Matematica Pura Ed Applicata</i> , 1992, 162, 1-22.	0.5	75
5	Relative asymptotics for polynomials orthogonal with respect to a discrete Sobolev inner product. <i>Constructive Approximation</i> , 1995, 11, 107-137.	1.8	74
6	On orthogonal polynomials with perturbed recurrence relations. <i>Journal of Computational and Applied Mathematics</i> , 1990, 30, 203-212.	1.1	65
7	On a class of polynomials orthogonal with respect to a discrete Sobolev inner product. <i>Indagationes Mathematicae</i> , 1990, 1, 451-464.	0.2	57
8	On Orthogonal Polynomials of Sobolev Type: Algebraic Properties and Zeros. <i>SIAM Journal on Mathematical Analysis</i> , 1992, 23, 737-757.	0.9	57
9	A distributional study of discrete classical orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 1995, 57, 147-162.	1.1	55
10	On Recurrence Relations for Sobolev Orthogonal Polynomials. <i>SIAM Journal on Mathematical Analysis</i> , 1995, 26, 446-467.	0.9	53
11	On the q-polynomials: a distributional study. <i>Journal of Computational and Applied Mathematics</i> , 2001, 135, 157-196.	1.1	47
12	Asymptotic and interlacing properties of zeros of exceptional Jacobi and Laguerre polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2013, 399, 480-495.	0.5	47
13	Orthogonal polynomials and coherent pairs: the classical case. <i>Indagationes Mathematicae</i> , 1995, 6, 287-307.	0.2	45
14	Relative Asymptotics for Orthogonal Polynomials with a Sobolev Inner Product. <i>Journal of Approximation Theory</i> , 1993, 72, 193-209.	0.5	41
15	Asymptotics and Zeros of Sobolev Orthogonal Polynomials on Unbounded Supports. <i>Acta Applicandae Mathematicae</i> , 2006, 94, 163-192.	0.5	40
16	Electrostatic models for zeros of polynomials: Old, new, and some open problems. <i>Journal of Computational and Applied Mathematics</i> , 2007, 207, 258-272.	1.1	40
17	Toda-type differential equations for the recurrence coefficients of orthogonal polynomials and Freud transformation. <i>Journal of Computational and Applied Mathematics</i> , 1997, 78, 139-160.	1.1	37
18	Semiclassical Multiple Orthogonal Polynomials and the Properties of Jacobi's "Bessel Polynomials. <i>Journal of Approximation Theory</i> , 1997, 90, 117-146.	0.5	37

#	ARTICLE	IF	CITATIONS
19	On the " Favard theorem" and its extensions. <i>Journal of Computational and Applied Mathematics</i> , 2001, 127, 231-254.	1.1	36
20	Co-recursive orthogonal polynomials and fourth-order differential equation. <i>Journal of Computational and Applied Mathematics</i> , 1989, 25, 105-109.	1.1	34
21	On a class of matrix orthogonal polynomials on the real line. <i>Linear Algebra and Its Applications</i> , 1993, 181, 97-109.	0.4	33
22	Spectral transformations for Hermitian Toeplitz matrices. <i>Journal of Computational and Applied Mathematics</i> , 2007, 202, 155-176.	1.1	33
23	Eigenproblems for tridiagonal 2-Toeplitz matrices and quadratic polynomial mappings. <i>Linear Algebra and Its Applications</i> , 1997, 260, 169-208.	0.4	30
24	Orthogonal Polynomials and Rational Modifications of Measures. <i>Canadian Journal of Mathematics</i> , 1993, 45, 930-943.	0.3	29
25	Second structure relation for q-semiclassical polynomials of the Hahn Tableau. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 329, 206-228.	0.5	27
26	Laguerre-Sobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 1996, 71, 245-265.	1.1	26
27	On linearly related orthogonal polynomials and their functionals. <i>Journal of Mathematical Analysis and Applications</i> , 2003, 287, 307-319.	0.5	26
28	When do linear combinations of orthogonal polynomials yield new sequences of orthogonal polynomials?. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 1446-1452.	1.1	26
29	Modifications of Toeplitz Matrices: Jump Functions. <i>Rocky Mountain Journal of Mathematics</i> , 1993, 23, 521.	0.2	25
30	Eigenproblems for Tridiagonal 2-Toeplitz Matrices and Quadratic Polynomial Mappings. <i>Linear Algebra and Its Applications</i> , 1997, 260, 169-208.	0.4	25
31	On the solution of some distributional differential equations: existence and characterizations of the classical moment functionals. <i>Integral Transforms and Special Functions</i> , 1994, 2, 185-218.	0.8	23
32	Sobolev-Type Orthogonal Polynomials: The Nondiagonal Case. <i>Journal of Approximation Theory</i> , 1995, 83, 266-287.	0.5	23
33	Polynomial perturbations of bilinear functionals and Hessenberg matrices. <i>Linear Algebra and Its Applications</i> , 2006, 414, 64-83.	0.4	23
34	Generating new classes of orthogonal polynomials. <i>International Journal of Mathematics and Mathematical Sciences</i> , 1996, 19, 643-656.	0.3	22
35	Complex Path Integral Representation for Semiclassical Linear Functionals. <i>Journal of Approximation Theory</i> , 1998, 94, 107-127.	0.5	22
36	Discrete semi-classical orthogonal polynomials. <i>Journal of Difference Equations and Applications</i> , 1998, 4, 463-496.	0.7	22



#	ARTICLE	IF	CITATIONS
55	Orthogonal polynomials associated with an inverse quadratic spectral transform. <i>Computers and Mathematics With Applications</i> , 2011, 61, 888-900.	1.4	17
56	Companion Linear Functionals and Sobolev Inner Products: A Case Study. <i>Methods and Applications of Analysis</i> , 2004, 11, 237-266.	0.1	17
57	What is beyond coherent pairs of orthogonal polynomials?. <i>Journal of Computational and Applied Mathematics</i> , 1995, 65, 267-277.	1.1	16
58	Classification of all $\hat{\Gamma}$ -Coherent Pairs. <i>Integral Transforms and Special Functions</i> , 2000, 9, 1-18.	0.8	16
59	Asymptotic Behavior of Sobolev-Type Orthogonal Polynomials on a Rectifiable Jordan Curve or Arc. <i>Constructive Approximation</i> , 2002, 18, 161-182.	1.8	16
60	On rational transformations of linear functionals: direct problem. <i>Journal of Mathematical Analysis and Applications</i> , 2004, 298, 171-183.	0.5	16
61	Strong and ratio asymptotics for Laguerre polynomials revisited. <i>Journal of Mathematical Analysis and Applications</i> , 2013, 403, 477-486.	0.5	16
62	Non-Abelian integrable hierarchies: matrix biorthogonal polynomials and perturbations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 205204.	0.7	16
63	Orthogonal polynomials associated with some modifications of a linear functional. <i>Applicable Analysis</i> , 1992, 46, 1-24.	0.6	15
64	Difference Equation for Modifications of Meixner Polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 1995, 194, 250-258.	0.5	15
65	Strong and Plancherel's Rotach Asymptotics of Non-diagonal Laguerre's Sobolev Orthogonal Polynomials. <i>Journal of Approximation Theory</i> , 2001, 110, 54-73.	0.5	15
66	A finite class of orthogonal functions generated by Routh's Romanovski polynomials. <i>Complex Variables and Elliptic Equations</i> , 2014, 59, 162-171.	0.4	15
67	Orthogonal polynomials on the unit circle and their derivatives. <i>Constructive Approximation</i> , 1991, 7, 341-348.	1.8	14
68	Orthogonal Polynomials of Sobolev Type on the Unit Circle. <i>Journal of Approximation Theory</i> , 1994, 78, 127-146.	0.5	14
69	Asymptotics for Sobolev Orthogonal Polynomials for Exponential Weights. <i>Constructive Approximation</i> , 2005, 22, 309-346.	1.8	14
70	Geronimus spectral transforms and measures on the complex plane. <i>Journal of Computational and Applied Mathematics</i> , 2008, 219, 441-456.	1.1	14
71	Darboux transformations for CMV matrices. <i>Advances in Mathematics</i> , 2016, 298, 122-206.	0.5	14
72	General Sobolev Orthogonal Polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 1996, 200, 614-634.	0.5	13

#	ARTICLE	IF	CITATIONS
73	WKB Approximation and Krall-Type Orthogonal Polynomials. <i>Acta Applicandae Mathematicae</i> , 1998, 54, 27-58.	0.5	13
74	Inner products involving q-differences: the little q-Laguerre-Sobolev polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2000, 118, 1-22.	1.1	13
75	On Kernel polynomials and self-perturbation of orthogonal polynomials. <i>Annali Di Matematica Pura Ed Applicata</i> , 2001, 180, 127-146.	0.5	13
76	Relative Asymptotics for Orthogonal Matrix Polynomials with Convergent Recurrence Coefficients. <i>Journal of Approximation Theory</i> , 2001, 111, 1-30.	0.5	13
77	Coherent pairs of linear functionals on the unit circle. <i>Journal of Approximation Theory</i> , 2008, 153, 122-137.	0.5	13
78	q-Classical Orthogonal Polynomials: A General Difference Calculus Approach. <i>Acta Applicandae Mathematicae</i> , 2010, 111, 107-128.	0.5	13
79	Monotonicity and asymptotics of zeros of Laguerre-Sobolev-type orthogonal polynomials of higher order derivatives. <i>Proceedings of the American Mathematical Society</i> , 2011, 139, 3929-3936.	0.4	13
80	The Laguerre-Sobolev-type orthogonal polynomials. Holonomic equation and electrostatic interpretation. <i>Rocky Mountain Journal of Mathematics</i> , 2011, 41, .	0.2	13
81	Sobolev orthogonal polynomials on product domains. <i>Journal of Computational and Applied Mathematics</i> , 2015, 284, 202-215.	1.1	13
82	On orthogonal polynomials with respect to certain discrete Sobolev inner product. <i>Pacific Journal of Mathematics</i> , 2012, 257, 167-188.	0.2	13
83	A generalization of the classical Laguerre polynomials. <i>Rendiconti Del Circolo Matematico Di Palermo</i> , 1995, 44, 315-329.	0.6	12
84	Orthogonality properties of linear combinations of orthogonal polynomials. <i>Advances in Computational Mathematics</i> , 1996, 5, 281-295.	0.8	12
85	Estimates for Jacobi-Sobolev type orthogonal polynomials. <i>Applicable Analysis</i> , 1997, 67, 157-174.	0.6	12
86	Asymptotics of Sobolev orthogonal polynomials for symmetrically coherent pairs of measures with compact support. <i>Journal of Computational and Applied Mathematics</i> , 1997, 81, 217-227.	1.1	12
87	An asymptotic result for Laguerre-Sobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 1997, 87, 87-94.	1.1	12
88	Generalized Coherent Pairs. <i>Journal of Mathematical Analysis and Applications</i> , 2001, 253, 482-514.	0.5	12
89	On an extension of symmetric coherent pairs of orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2005, 178, 155-168.	1.1	12
90	The Laguerre-Sobolev-type orthogonal polynomials. <i>Journal of Approximation Theory</i> , 2010, 162, 421-440.	0.5	12

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91	Monotonicity of zeros of Laguerre–Sobolev-type orthogonal polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 368, 80-89.	0.5	12
92	Asymptotic properties of Laguerre–Sobolev type orthogonal polynomials. <i>Numerical Algorithms</i> , 2012, 60, 51-73.	1.1	12
93	Orthogonal polynomials on the unit circle: distribution of zeros. <i>Journal of Computational and Applied Mathematics</i> , 1991, 37, 195-208.	1.1	11
94	A generalization of the class laguerre polynomials: asymptotic properties and zeros. <i>Applicable Analysis</i> , 1996, 62, 349-366.	0.6	11
95	Inner products involving differences: the meixner–sobolev polynomials. <i>Journal of Difference Equations and Applications</i> , 2000, 6, 1-31.	0.7	11
96	Gaussian quadrature formulae on the unit circle. <i>Journal of Computational and Applied Mathematics</i> , 2002, 140, 159-183.	1.1	11
97	Two variable orthogonal polynomials and structured matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2006, 28, 118-147.	0.7	11
98	Second structure relation for semiclassical orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2007, 200, 537-554.	1.1	11
99	On co-polynomials on the real line. <i>Journal of Mathematical Analysis and Applications</i> , 2015, 427, 469-483.	0.5	11
100	On polynomials orthogonal with respect to Sobolev inner product on the unit circle. <i>Pacific Journal of Mathematics</i> , 1996, 175, 127-146.	0.2	11
101	On the properties for modifications of classical orthogonal polynomials of discrete variables. <i>Journal of Computational and Applied Mathematics</i> , 1995, 65, 3-18.	1.1	10
102	Sobolev-type orthogonal polynomials on the unit circle. <i>Applied Mathematics and Computation</i> , 2002, 128, 329-363.	1.4	10
103	On asymptotic properties of Freud–Sobolev orthogonal polynomials. <i>Journal of Approximation Theory</i> , 2003, 125, 26-41.	0.5	10
104	Matrix biorthogonal polynomials on the real line: Geronimus transformations. <i>Bulletin of Mathematical Sciences</i> , 2019, 09, 1950007.	0.5	10
105	Verblunsky Parameters and Linear Spectral Transformations. <i>Methods and Applications of Analysis</i> , 2009, 16, 69-86.	0.1	10
106	The modification of classical hahn polynomials of a discrete variable. <i>Integral Transforms and Special Functions</i> , 1995, 3, 243-262.	0.8	9
107	Orthogonality properties of linear combinations of orthogonal polynomials II. <i>Advances in Computational Mathematics</i> , 1997, 7, 401-428.	0.8	9
108	Ratio and Plancherel–Rotach asymptotics for Meixner–Sobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2000, 116, 63-75.	1.1	9

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109	Perturbations in the Nevai matrix class of orthogonal matrix polynomials. <i>Linear Algebra and Its Applications</i> , 2001, 336, 231-254.	0.4	9
110	q-Coherent pairs and q-orthogonal polynomials. <i>Applied Mathematics and Computation</i> , 2002, 128, 191-216.	1.4	9
111	Lebesgue perturbation of a quasi-definite Hermitian functional. The positive definite case. <i>Linear Algebra and Its Applications</i> , 2003, 369, 235-250.	0.4	9
112	Spectral transformations of measures supported on the unit circle and the Szegő transformation. <i>Numerical Algorithms</i> , 2008, 49, 169-185.	1.1	9
113	Perturbations of Laguerre-Hahn functional: modification by the derivative of a Dirac delta. <i>Integral Transforms and Special Functions</i> , 2009, 20, 59-77.	0.8	9
114	A Cohen type inequality for Laguerre-Sobolev expansions. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 352, 880-889.	0.5	9
115	Szegő transformations and rational spectral transformations for associated polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2009, 233, 730-738.	1.1	9
116	Zeros of orthogonal polynomials generated by canonical perturbations of measures. <i>Applied Mathematics and Computation</i> , 2012, 218, 7109-7127.	1.4	9
117	Quadratic decomposition of a Laguerre-Hahn polynomial sequence I. <i>Bulletin of the Belgian Mathematical Society - Simon Stevin</i> , 2010, 17, .	0.1	9
118	Symmetrical Orthogonal Polynomials for Sobolev-Type Inner Products. <i>Journal of Mathematical Analysis and Applications</i> , 1994, 184, 360-381.	0.5	8
119	Some Extension of the bessel-type orthogonal polynomials. <i>Integral Transforms and Special Functions</i> , 1998, 7, 191-214.	0.8	8
120	Title is missing!. <i>Acta Applicandae Mathematicae</i> , 2002, 71, 127-158.	0.5	8
121	Asymptotic behaviour of Laguerre-Sobolev-type orthogonal polynomials. A nondiagonal case. <i>Journal of Computational and Applied Mathematics</i> , 2010, 235, 998-1007.	1.1	8
122	The holonomic equation of the Laguerre-Sobolev-type orthogonal polynomials: a non-diagonal case. <i>Journal of Difference Equations and Applications</i> , 2011, 17, 877-887.	0.7	8
123	Analytic properties of Laguerre-type orthogonal polynomials. <i>Integral Transforms and Special Functions</i> , 2011, 22, 107-122.	0.8	8
124	On semiclassical linear functionals of class $s=2$ : classification and integral representations. <i>Journal of Difference Equations and Applications</i> , 2012, 18, 973-1000.	0.7	8
125	Higher Order Coherent Pairs. <i>Acta Applicandae Mathematicae</i> , 2012, 121, 105-135.	0.5	8
126	On polynomials associated with an Uvarov modification of a quartic potential Freud-like weight. <i>Applied Mathematics and Computation</i> , 2016, 281, 102-120.	1.4	8






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145	Quadratic decomposition of a family of $H_q$ -semiclassical orthogonal polynomial sequences. <i>Journal of Difference Equations and Applications</i> , 2012, 18, 2039-2057.	0.7	6
146	A non-symmetric second-degree semi-classical form of class one. <i>Integral Transforms and Special Functions</i> , 2012, 23, 149-159.	0.8	6
147	On an inverse problem for a linear combination of orthogonal polynomials. <i>Journal of Difference Equations and Applications</i> , 2014, 20, 570-585.	0.7	6
148	Asymptotic behavior of varying discrete Jacobi Sobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2016, 300, 341-353.	1.1	6
149	Christoffel Transformations for Matrix Orthogonal Polynomials in the Real Line and the non-Abelian 2D Toda Lattice Hierarchy. <i>International Mathematics Research Notices</i> , 0, , rrw027.	0.5	6
150	Asymptotics for varying discrete Sobolev orthogonal polynomials. <i>Applied Mathematics and Computation</i> , 2017, 314, 65-79.	1.4	6
151	On bivariate classical orthogonal polynomials. <i>Applied Mathematics and Computation</i> , 2018, 325, 340-357.	1.4	6
152	Linear Combinations of $d$ -Orthogonal Polynomials. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2019, 42, 2009-2038.	0.4	6
153	Associated orthogonal polynomials of the first kind and Darboux transformations. <i>Journal of Mathematical Analysis and Applications</i> , 2022, 508, 125883.	0.5	6
154	On inverse problems for orthogonal polynomials, I. <i>Journal of Computational and Applied Mathematics</i> , 1993, 49, 153-160.	1.1	5
155	On the basic set of solutions of a high-order linear difference equation. <i>Journal of Difference Equations and Applications</i> , 2006, 12, 213-228.	0.7	5
156	A new numerical quadrature formula on the unit circle. <i>Numerical Algorithms</i> , 2007, 44, 391-401.	1.1	5
157	Asymptotic behaviour of Sobolev orthogonal polynomials on the unit circle. <i>Integral Transforms and Special Functions</i> , 2013, 24, 23-38.	0.8	5
158	Classical orthogonal polynomials with respect to a lowering operator generalizing the Laguerre operator. <i>Integral Transforms and Special Functions</i> , 2013, 24, 636-648.	0.8	5
159	An electrostatic model for zeros of perturbed Laguerre polynomials. <i>Proceedings of the American Mathematical Society</i> , 2014, 142, 1733-1747.	0.4	5
160	On Alpert multiwavelets. <i>Proceedings of the American Mathematical Society</i> , 2015, 143, 2479-2494.	0.4	5
161	Quadratures and integral transforms arising from generating functions. <i>Applied Mathematics and Computation</i> , 2017, 297, 8-18.	1.4	5
162	Matrix Pearson Equations Satisfied by Koornwinder Weights in Two Variables. <i>Acta Applicandae Mathematicae</i> , 2018, 153, 81-100.	0.5	5



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181	An Extension of the Geronimus Transformation for Orthogonal Matrix Polynomials on the Real Line. <i>Mediterranean Journal of Mathematics</i> , 2016, 13, 5009-5032.	0.4	4
182	Orthogonal polynomials and perturbations on measures supported on the real line and on the unit circle. A matrix perspective. , 2016, 34, 287-326.		4
183	A canonical Geronimus transformation for matrix orthogonal polynomials. <i>Linear and Multilinear Algebra</i> , 2018, 66, 357-381.	0.5	4
184	On Freudâ€™Sobolev type orthogonal polynomials. <i>Afrika Matematika</i> , 2019, 30, 505-528.	0.4	4
185	Discreteâ€™Continuous Jacobiâ€™Sobolev Spaces and Fourier Series. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2021, 44, 571-598.	0.4	4
186	SEMICLASSICAL LINEAR FUNCTIONALS OF CLASS 2: THE SYMMETRIC CASE. , 2007, , .		4
187	Christoffel formulas for N-Kernels associated to Jordan arcs. <i>Lecture Notes in Mathematics</i> , 1985, , 195-203.	0.1	3
188	Perturbations in Toeplitz matrices. II. Asymptotic properties. <i>Journal of Mathematical Analysis and Applications</i> , 1991, 156, 44-51.	0.5	3
189	Quadratic decomposition of orthogonal polynomials: a matrix approach. <i>Numerical Algorithms</i> , 1992, 3, 285-298.	1.1	3
190	Connection coefficients for Laguerreâ€™Sobolev orthogonal polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2003, 283, 440-458.	0.5	3
191	Vector Interpretation of the Matrix Orthogonality on the Real Line. <i>Acta Applicandae Mathematicae</i> , 2010, 112, 357-383.	0.5	3
192	Relative asymptotics for orthogonal matrix polynomials. <i>Linear Algebra and Its Applications</i> , 2012, 437, 1458-1481.	0.4	3
193	Semi-classical linear functionals of class three: the symmetric case. <i>Journal of Difference Equations and Applications</i> , 2013, 19, 162-178.	0.7	3
194	Varying discrete Laguerreâ€™Sobolev orthogonal polynomials: Asymptotic behavior and zeros. <i>Applied Mathematics and Computation</i> , 2013, 222, 612-618.	1.4	3
195	(1,1)-D-coherent pairs. <i>Journal of Difference Equations and Applications</i> , 2013, 19, 1828-1848.	0.7	3
196	Recurrence relations and outer relative asymptotics of orthogonal polynomials with respect to a discrete Sobolev type inner product. <i>Bulletin of Mathematical Sciences</i> , 2014, 4, 83-97.	0.5	3
197	Weighted Sobolev spaces: Markov-type inequalities and duality. <i>Bulletin of Mathematical Sciences</i> , 2018, 8, 233-256.	0.5	3
198	Asymptotics of Sobolev orthogonal polynomials for Hermite (1,1)-coherent pairs. <i>Journal of Mathematical Analysis and Applications</i> , 2018, 467, 601-621.	0.5	3

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199	\$\$H_q\$\$-Semiclassical orthogonal polynomials via polynomial mappings. Ramanujan Journal, 2021, 54, 113-136.	0.4	3
200	Discrete Semiclassical Orthogonal Polynomials of Class 2. SEMA SIMAI Springer Series, 2021, , 103-169.	0.4	3
201	Strong asymptotics on the support of the measure of orthogonality for polynomials orthogonal with respect to a discrete Sobolev inner product. Methods and Applications of Analysis, 1997, 4, 53-66.	0.1	3
202	On Symmetric (1, 1)-Coherent Pairs and Sobolev Orthogonal polynomials: an algorithm to compute Fourier coefficients. Revista Colombiana De Matematicas, 2019, 53, 139-164.	0.4	3
203	Analytical Properties of Touchard-Based Hybrid Polynomials via Operational Techniques. Bulletin of the Malaysian Mathematical Sciences Society, 2021, 44, 223-242.	0.4	3
204	The characterization of the quasi-typical extension of an inner product. Journal of Approximation Theory, 1990, 62, 235-242.	0.5	2
205	The Moments of the M/M/s Queue Length Process. Queueing Systems, 2003, 44, 281-304.	0.6	2
206	Generating functions and companion symmetric linear functionals. Periodica Mathematica Hungarica, 2003, 46, 157-170.	0.5	2
207	Hardy-type theorem for orthogonal functions with respect to their zeros. The Jacobi weight case. Journal of Mathematical Analysis and Applications, 2008, 341, 803-812.	0.5	2
208	Szegő transformations and Nth order associated polynomials on the unit circle. Computers and Mathematics With Applications, 2009, 57, 1659-1671.	1.4	2
209	Asymptotic Properties of Orthogonal Polynomials with Respect to a Non-discrete Jacobi-Sobolev Inner Product. Acta Applicandae Mathematicae, 2010, 110, 1309-1320.	0.5	2
210	A note on monotonicity of zeros of generalized Hermite Sobolev-type orthogonal polynomials. Integral Transforms and Special Functions, 2010, 21, 831-838.	0.8	2
211	Orthogonal polynomials and second-order pseudo-spectral linear differential equations. Integral Transforms and Special Functions, 2010, 21, 487-501.	0.8	2
212	Lowering operators associated with D-Laguerre Hahn polynomials. Integral Transforms and Special Functions, 2011, 22, 879-893.	0.8	2
213	Density of polynomials in some $x$ -norms  xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	0.4	2
214	On computational aspects of discrete Sobolev inner products on the unit circle. Applied Mathematics and Computation, 2013, 223, 452-460.	1.4	2
215	Bases of the space of solutions of some fourth-order linear difference equations: applications in rational approximation. Journal of Difference Equations and Applications, 2013, 19, 1632-1644.	0.7	2
216	Sieved para-orthogonal polynomials on the unit circle. Applied Mathematics and Computation, 2014, 244, 335-343.	1.4	2

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217	A matrix characterization for the $D^{\hat{1}/2}$ -semiclassical and $D^{\hat{1}/2}$ -coherent orthogonal polynomials. Linear Algebra and Its Applications, 2015, 487, 242-259.	0.4	2
218	On perturbed orthogonal polynomials on the real line and the unit circle via Szegő's transformation. Applied Mathematics and Computation, 2017, 302, 97-110.	1.4	2
219	On Co-polynomials on the Real Line and the Unit Circle. Springer Optimization and Its Applications, 2017, , 69-94.	0.6	2
220	Matrix biorthogonal polynomials on the real line: Geronimus transformations. Bulletin of Mathematical Sciences, 0, , .	0.5	2
221	Coherent pairs of bivariate orthogonal polynomials. Journal of Approximation Theory, 2019, 245, 40-63.	0.5	2
222	Szegő's transformation and zeros of analytic perturbations of Chebyshev weights. Journal of Mathematical Analysis and Applications, 2019, 470, 571-583.	0.5	2
223	2-Orthogonal polynomials and Darboux transformations. Applications to the discrete Hahn-classical case. Journal of Difference Equations and Applications, 2021, 27, 431-452.	0.7	2
224	Generalized coherent pairs on the unit circle and Sobolev orthogonal polynomials. Publications De L'Institut Mathematique, 2014, 96, 193-210.	0.3	2
225	GENERALIZED $\hat{1}$ -COHERENT PAIRS. Journal of the Korean Mathematical Society, 2004, 41, 977-994.	0.4	2
226	Second kind functionals for the Laguerre-Hahn affine class on the unit circle. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2003, 10, .	0.1	2
227	From Standard Orthogonal Polynomials to Sobolev Orthogonal Polynomials: The Role of Semiclassical Linear Functionals. Tutorials, Schools, and Workshops in the Mathematical Sciences, 2020, , 245-292.	0.3	2
228	Characterizations of the Symmetric $ST_{\{\eta, q\}}$ -Classical Orthogonal $q$ -Polynomials. Mediterranean Journal of Mathematics, 2022, 19, 1.	0.4	2
229	Second degree linear forms and semiclassical forms of class one: A case study. Filomat, 2022, 36, 781-800.	0.2	2
230	On the characterizations of third-degree semiclassical forms via polynomial mappings. Integral Transforms and Special Functions, 2023, 34, 65-87.	0.8	2
231	Orthogonality with respect to the sum of two semiclassical regular linear forms. Journal of Computational and Applied Mathematics, 1991, 37, 265-272.	1.1	1
232	Convex linear combinations of sequences of monic orthogonal polynomials. Proceedings of the American Mathematical Society, 1998, 126, 2323-2331.	0.4	1
233	On the Krall-type polynomials. Journal of Applied Mathematics, 2004, 2004, 359-369.	0.4	1
234	Discrete-Continuous Symmetrized Sobolev Inner Products. Acta Applicandae Mathematicae, 2004, 82, 309-331.	0.5	1

#	ARTICLE	IF	CITATIONS
235	Continuous symmetrized Sobolev inner products of order $N$ (I). Journal of Mathematical Analysis and Applications, 2005, 306, 83-96.	0.5	1
236	On the Pollard decomposition method applied to some Jacobi-Sobolev expansions. Turkish Journal of Mathematics, 2013, , .	0.3	1
237	A Cohen type inequality for Laguerre--Sobolev expansions with a mass point outside their oscillatory regime. Turkish Journal of Mathematics, 2014, 38, 994-1006.	0.3	1
238	Some New Identities Involving Sheffer's Appell Polynomial Sequences via Matrix Approach. Mediterranean Journal of Mathematics, 2019, 16, 1.	0.4	1
239	Christoffel Transformation for a Matrix of Bi-variate Measures. Complex Analysis and Operator Theory, 2019, 13, 3979-4005.	0.3	1
240	An inverse problem associated with $(1,1)$ symmetric coherent linear functionals. Integral Transforms and Special Functions, 2019, 30, 526-546.	0.8	1
241	Spectral Transformations and Associated Linear Functionals of the First Kind. Axioms, 2021, 10, 107.	0.9	1
242	A CMV connection between orthogonal polynomials on the unit circle and the real line. Journal of Approximation Theory, 2021, 266, 105579.	0.5	1
243	Integral representations on equipotential and harmonic sets. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2004, 11, .	0.1	1
244	On a Direct Uvarov-Chihara Problem and Some Extensions. , 2014, , 691-704.		1
245	Differential properties for Sobolev orthogonality on the unit circle. Journal of Computational and Applied Mathematics, 2001, 133, 231-239.	1.1	0
246	A Cubic Decomposition of Sequences of Orthogonal Polynomials on the Unit Circle. Complex Variables and Elliptic Equations, 2002, 47, 745-759.	0.2	0
247	Kernels and best approximations related to the system of ultraspherical polynomials. Journal of Approximation Theory, 2005, 133, 173-194.	0.5	0
248	Jacobi-Sobolev Orthogonal Polynomials: Asymptotics for $N$ -Coherence of Measures. Journal of Inequalities and Applications, 2011, 2011, 294134.	0.5	0
249	Foreword to the proceedings of the OrthoQuad 2014 conference. Journal of Computational and Applied Mathematics, 2015, 284, 1-9.	1.1	0
250	Asymptotic behavior of the partial derivatives of Laguerre kernels and some applications. Journal of Mathematical Analysis and Applications, 2015, 421, 314-328.	0.5	0
251	A Classification of Symmetric $(1, 1)$ -Coherent Pairs of Linear Functionals. Mathematics, 2019, 7, 213.	1.1	0
252	Geronimus transformations of bivariate linear functionals. Journal of Mathematical Analysis and Applications, 2020, 484, 123736.	0.5	0

#	ARTICLE	IF	CITATIONS
253	International Conference on Mathematical Analysis & its Applications (ICMAA 2016). Journal of Analysis, 2020, 28, 1-2.	0.3	0
254	Lupaşcu-type inequality and applications to Markov-type inequalities in weighted Sobolev spaces. Bulletin of Mathematical Sciences, 2021, 11, 1950022.	0.5	0
255	Rodrigues formula and recurrence coefficients for non-symmetric Dunkl-classical orthogonal polynomials. Ramanujan Journal, 2021, 56, 451.	0.4	0
256	Special issue OPSFA15: orthogonal polynomials, special functions and applications. Integral Transforms and Special Functions, 2021, 32, 333-335.	0.8	0
257	On Some Recent Results on Asymptotic Behavior of Orthogonal Polynomials on the Unit Circle and Inserting Point Masses. , 2015, , 75-101.		0
258	Ratio asymptotics for biorthogonal matrix polynomials with unbounded recurrence coefficients. Applicable Analysis and Discrete Mathematics, 2020, 14, 754-774.	0.3	0
259	Stability of Third Degree Linear Functionals and Rational Spectral Transformations. Mediterranean Journal of Mathematics, 2022, 19, .	0.4	0