

Francisco Marcellan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

256
papers

2,569
citations

24
h-index

36
g-index

265
ext. papers

2,802
ext. citations

1.3
avg, IF

5.17
L-index

#	Paper	IF	Citations
256	Darboux transformation and perturbation of linear functionals. <i>Linear Algebra and Its Applications</i> , 2004 , 384, 215-242	0.9	84
255	Orthogonal polynomials on Sobolev spaces: old and new directions. <i>Journal of Computational and Applied Mathematics</i> , 1993 , 48, 113-131	2.4	68
254	On Sobolev orthogonal polynomials 2015 , 33, 308-352		67
253	Relative asymptotics for polynomials orthogonal with respect to a discrete Sobolev inner product. <i>Constructive Approximation</i> , 1995 , 11, 107-137	1.6	65
252	Sur l'adjonction d'une masse de Dirac δ une forme régulière et semi-classique. <i>Annali Di Matematica Pura Ed Applicata</i> , 1992 , 162, 1-22	0.8	59
251	On Orthogonal Polynomials of Sobolev Type: Algebraic Properties and Zeros. <i>SIAM Journal on Mathematical Analysis</i> , 1992 , 23, 737-757	1.7	54
250	On orthogonal polynomials with perturbed recurrence relations. <i>Journal of Computational and Applied Mathematics</i> , 1990 , 30, 203-212	2.4	50
249	On a class of polynomials orthogonal with respect to a discrete Sobolev inner product. <i>Indagationes Mathematicae</i> , 1990 , 1, 451-464	0.6	47
248	On Recurrence Relations for Sobolev Orthogonal Polynomials. <i>SIAM Journal on Mathematical Analysis</i> , 1995 , 26, 446-467	1.7	43
247	A distributional study of discrete classical orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 1995 , 57, 147-162	2.4	41
246	On the q-polynomials: a distributional study. <i>Journal of Computational and Applied Mathematics</i> , 2001 , 135, 157-196	2.4	39
245	Orthogonal polynomials and coherent pairs: the classical case. <i>Indagationes Mathematicae</i> , 1995 , 6, 287-307		35
244	Asymptotic and interlacing properties of zeros of exceptional Jacobi and Laguerre polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2013 , 399, 480-495	1.1	34
243	Asymptotics and Zeros of Sobolev Orthogonal Polynomials on Unbounded Supports. <i>Acta Applicandae Mathematicae</i> , 2006 , 94, 163-192	1.1	33
242	Semiclassical Multiple Orthogonal Polynomials and the Properties of Jacobi-Bessel Polynomials. <i>Journal of Approximation Theory</i> , 1997 , 90, 117-146	0.9	32
241	Electrostatic models for zeros of polynomials: Old, new, and some open problems. <i>Journal of Computational and Applied Mathematics</i> , 2007 , 207, 258-272	2.4	31
240	Relative Asymptotics for Orthogonal Polynomials with a Sobolev Inner Product. <i>Journal of Approximation Theory</i> , 1993 , 72, 193-209	0.9	31

239	Co-recursive orthogonal polynomials and fourth-order differential equation. <i>Journal of Computational and Applied Mathematics</i> , 1989 , 25, 105-109	2.4	30
238	Spectral transformations for Hermitian Toeplitz matrices. <i>Journal of Computational and Applied Mathematics</i> , 2007 , 202, 155-176	2.4	28
237	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	2.4	27
236	On the Favard theorem and its extensions. <i>Journal of Computational and Applied Mathematics</i> , 2001 , 127, 231-254	2.4	27
235	Orthogonal Polynomials and Rational Modifications of Measures. <i>Canadian Journal of Mathematics</i> , 1993 , 45, 930-943	0.8	26
234	Eigenproblems for tridiagonal 2-Toeplitz matrices and quadratic polynomial mappings. <i>Linear Algebra and Its Applications</i> , 1997 , 260, 169-208	0.9	25
233	Second structure relation for q-semiclassical polynomials of the Hahn Tableau. <i>Journal of Mathematical Analysis and Applications</i> , 2007 , 329, 206-228	1.1	25
232	On a class of matrix orthogonal polynomials on the real line. <i>Linear Algebra and Its Applications</i> , 1993 , 181, 97-109	0.9	24
231	Eigenproblems for Tridiagonal 2-Toeplitz Matrices and Quadratic Polynomial Mappings. <i>Linear Algebra and Its Applications</i> , 1997 , 260, 169-208	0.9	24
230	Laguerre-Sobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 1996 , 71, 245-265	2.4	23
229	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	2.4	22
228	Sobolev-Type Orthogonal Polynomials: The Nondiagonal Case. <i>Journal of Approximation Theory</i> , 1995 , 83, 266-287	0.9	22
227	On linearly related orthogonal polynomials and their functionals. <i>Journal of Mathematical Analysis and Applications</i> , 2003 , 287, 307-319	1.1	21
226	Modifications of Toeplitz Matrices: Jump Functions. <i>Rocky Mountain Journal of Mathematics</i> , 1993 , 23, 521	1.4	21
225	Discrete semi-classical orthogonal polynomials. <i>Journal of Difference Equations and Applications</i> , 1998 , 4, 463-496	1	20
224	Asymptotic Behavior of Sobolev-Type Orthogonal Polynomials on the Unit Circle. <i>Journal of Approximation Theory</i> , 1999 , 100, 345-363	0.9	20
223	Generating new classes of orthogonal polynomials. <i>International Journal of Mathematics and Mathematical Sciences</i> , 1996 , 19, 643-656	0.8	20
222	Polynomial perturbations of bilinear functionals and Hessenberg matrices. <i>Linear Algebra and Its Applications</i> , 2006 , 414, 64-83	0.9	19

221	Orthogonal polynomials and measures on the unit circle. The Geronimus transformations. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 233, 1220-1231	2.4	18
220	Modifications of quasi-definite linear functionals via addition of delta and derivatives of delta Dirac functions. <i>Indagationes Mathematicae</i> , 2004 , 15, 1-20	0.6	18
219	Christoffel Transforms and Hermitian Linear Functionals. <i>Mediterranean Journal of Mathematics</i> , 2005 , 2, 451-458	0.9	18
218	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	1	18
217	Multiple Geronimus transformations. <i>Linear Algebra and Its Applications</i> , 2014 , 454, 158-183	0.9	17
216	Jacobi-Sobolev-type orthogonal polynomials: Second-order differential equation and zeros. <i>Journal of Computational and Applied Mathematics</i> , 1998 , 90, 135-156	2.4	17
215	A note on the Geronimus transformation and Sobolev orthogonal polynomials. <i>Numerical Algorithms</i> , 2014 , 67, 271-287	2.1	16
214	Orthogonal polynomials associated with an inverse quadratic spectral transform. <i>Computers and Mathematics With Applications</i> , 2011 , 61, 888-900	2.7	16
213	Perturbations on the subdiagonals of Toeplitz matrices. <i>Linear Algebra and Its Applications</i> , 2011 , 434, 1563-1579	0.9	16
212	Complex Path Integral Representation for Semiclassical Linear Functionals. <i>Journal of Approximation Theory</i> , 1998 , 94, 107-127	0.9	16
211	Asymptotic Behavior of Sobolev-Type Orthogonal Polynomials on a Rectifiable Jordan Curve or Arc. <i>Constructive Approximation</i> , 2002 , 18, 161-182	1.6	16
210	On semiclassical linear functionals: integral representations. <i>Journal of Computational and Applied Mathematics</i> , 1995 , 57, 239-249	2.4	16
209	A class of matrix orthogonal polynomials on the unit circle. <i>Linear Algebra and Its Applications</i> , 1989 , 121, 233-241	0.9	16
208	Differential Equation for Classical-Type Orthogonal Polynomials. <i>Canadian Mathematical Bulletin</i> , 1989 , 32, 404-411	0.6	16
207	(M,N)-coherent pairs of order(m,k)and Sobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 256, 16-35	2.4	15
206	Perturbations of Laguerre-Blahn linear functionals. <i>Journal of Computational and Applied Mathematics</i> , 1999 , 105, 109-128	2.4	15
205	What is beyond coherent pairs of orthogonal polynomials?. <i>Journal of Computational and Applied Mathematics</i> , 1995 , 65, 267-277	2.4	15
204	Orthogonal polynomials on the unit circle: Symmetrization and quadratic decomposition. <i>Journal of Approximation Theory</i> , 1991 , 65, 109-119	0.9	15

203	On rational transformations of linear functionals: direct problem. <i>Journal of Mathematical Analysis and Applications</i> , 2004 , 298, 171-183	1.1	14
202	On Fourier Series of a Discrete Jacobi-Sobolev Inner Product. <i>Journal of Approximation Theory</i> , 2002 , 117, 1-22	0.9	14
201	Relative asymptotics and Fourier series of orthogonal polynomials with a discrete Sobolev inner product. <i>Journal of Approximation Theory</i> , 2003 , 121, 336-356	0.9	14
200	Classification of all \mathbb{E} -Coherent Pairs. <i>Integral Transforms and Special Functions</i> , 2000 , 9, 1-18	1	14
199	Orthogonal Polynomials of Sobolev Type on the Unit Circle. <i>Journal of Approximation Theory</i> , 1994 , 78, 127-146	0.9	14
198	Difference Equation for Modifications of Meixner Polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 1995 , 194, 250-258	1.1	14
197	Companion Linear Functionals and Sobolev Inner Products: A Case Study. <i>Methods and Applications of Analysis</i> , 2004 , 11, 237-266	0.3	14
196	Strong and ratio asymptotics for Laguerre polynomials revisited. <i>Journal of Mathematical Analysis and Applications</i> , 2013 , 403, 477-486	1.1	13
195	Delta -Coherent Pairs and Orthogonal Polynomials of a Discrete Variable. <i>Integral Transforms and Special Functions</i> , 2003 , 14, 31-57	1	13
194	Strong and Plancherel-Rotach Asymptotics of Non-diagonal Laguerre-Sobolev Orthogonal Polynomials. <i>Journal of Approximation Theory</i> , 2001 , 110, 54-73	0.9	13
193	Orthogonal polynomials on the unit circle and their derivatives. <i>Constructive Approximation</i> , 1991 , 7, 341-348	1.6	13
192	Orthogonal polynomials associated with some modifications of a linear functional. <i>Applicable Analysis</i> , 1992 , 46, 1-24	0.8	13
191	Discrete semiclassical orthogonal polynomials of class one. <i>Pacific Journal of Mathematics</i> , 2014 , 268, 389-411	0.5	12
190	q-Classical Orthogonal Polynomials: A General Difference Calculus Approach. <i>Acta Applicandae Mathematicae</i> , 2010 , 111, 107-128	1.1	12
189	The Laguerre-Sobolev-type orthogonal polynomials. <i>Journal of Approximation Theory</i> , 2010 , 162, 421-440.	0.9	12
188	Monotonicity of zeros of Laguerre-Sobolev-type orthogonal polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2010 , 368, 80-89	1.1	12
187	Geronimus spectral transforms and measures on the complex plane. <i>Journal of Computational and Applied Mathematics</i> , 2008 , 219, 441-456	2.4	12
186	Relative Asymptotics for Orthogonal Matrix Polynomials with Convergent Recurrence Coefficients. <i>Journal of Approximation Theory</i> , 2001 , 111, 1-30	0.9	12

185	General Sobolev Orthogonal Polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 1996 , 200, 614-634	1.1	12
184	Asymptotic properties of Laguerre-Sobolev type orthogonal polynomials. <i>Numerical Algorithms</i> , 2012 , 60, 51-73	2.1	11
183	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	0.8	11
182	The Laguerre-Sobolev-type orthogonal polynomials. Holonomic equation and electrostatic interpretation. <i>Rocky Mountain Journal of Mathematics</i> , 2011 , 41,	1.4	11
181	An asymptotic result for Laguerre-Sobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 1997 , 87, 87-94	2.4	11
180	WKB Approximation and Krall-Type Orthogonal Polynomials. <i>Acta Applicandae Mathematicae</i> , 1998 , 54, 27-58	1.1	11
179	Coherent pairs of linear functionals on the unit circle. <i>Journal of Approximation Theory</i> , 2008 , 153, 122-137	1.1	11
178	On an extension of symmetric coherent pairs of orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2005 , 178, 155-168	2.4	11
177	On Kernel polynomials and self-perturbation of orthogonal polynomials. <i>Annali Di Matematica Pura Ed Applicata</i> , 2001 , 180, 127-146	0.8	11
176	Generalized Coherent Pairs. <i>Journal of Mathematical Analysis and Applications</i> , 2001 , 253, 482-514	1.1	11
175	Non-Abelian integrable hierarchies: matrix biorthogonal polynomials and perturbations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018 , 51, 205204	2	10
174	Darboux transformations for CMV matrices. <i>Advances in Mathematics</i> , 2016 , 298, 122-206	1.3	10
173	A finite class of orthogonal functions generated by Routh-Romanovski polynomials. <i>Complex Variables and Elliptic Equations</i> , 2014 , 59, 162-171	0.5	10
172	Estimates for jacobi-Sobolev type orthogonal polynomials. <i>Applicable Analysis</i> , 1997 , 67, 157-174	0.8	10
171	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	2.4	10
170	Second structure relation for semiclassical orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2007 , 200, 537-554	2.4	10
169	Asymptotics for Sobolev Orthogonal Polynomials for Exponential Weights. <i>Constructive Approximation</i> , 2005 , 22, 309-346	1.6	10
168	Inner products involving q-differences: the little q-Laguerre-Sobolev polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2000 , 118, 1-22	2.4	10

167	Inner products involving differences: the meixner-Sobolev polynomials. <i>Journal of Difference Equations and Applications</i> , 2000 , 6, 1-31	1	10
166	On the properties for modifications of classical orthogonal polynomials of discrete variables. <i>Journal of Computational and Applied Mathematics</i> , 1995 , 65, 3-18	2.4	10
165	A generalization of the class laguerre polynomials: asymptotic properties and zeros. <i>Applicable Analysis</i> , 1996 , 62, 349-366	0.8	10
164	Orthogonal polynomials on the unit circle: distribution of zeros. <i>Journal of Computational and Applied Mathematics</i> , 1991 , 37, 195-208	2.4	10
163	On polynomials orthogonal with respect to Sobolev inner product on the unit circle. <i>Pacific Journal of Mathematics</i> , 1996 , 175, 127-146	0.5	10
162	Sobolev orthogonal polynomials on product domains. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 284, 202-215	2.4	9
161	Two variable orthogonal polynomials and structured matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2006 , 28, 118-147	1.5	9
160	Gaussian quadrature formulae on the unit circle. <i>Journal of Computational and Applied Mathematics</i> , 2002 , 140, 159-183	2.4	9
159	Sobolev-type orthogonal polynomials on the unit circle. <i>Applied Mathematics and Computation</i> , 2002 , 128, 329-363	2.7	9
158	On asymptotic properties of Freud-Sobolev orthogonal polynomials. <i>Journal of Approximation Theory</i> , 2003 , 125, 26-41	0.9	9
157	Lebesgue perturbation of a quasi-definite Hermitian functional. The positive definite case. <i>Linear Algebra and Its Applications</i> , 2003 , 369, 235-250	0.9	9
156	Perturbations in the Nevai matrix class of orthogonal matrix polynomials. <i>Linear Algebra and Its Applications</i> , 2001 , 336, 231-254	0.9	9
155	Verblunsky Parameters and Linear Spectral Transformations. <i>Methods and Applications of Analysis</i> , 2009 , 16, 69-86	0.3	9
154	Higher Order Coherent Pairs. <i>Acta Applicandae Mathematicae</i> , 2012 , 121, 105-135	1.1	8
153	A Cohen type inequality for Laguerre-Sobolev expansions. <i>Journal of Mathematical Analysis and Applications</i> , 2009 , 352, 880-889	1.1	8
152	q-Coherent pairs and q-orthogonal polynomials. <i>Applied Mathematics and Computation</i> , 2002 , 128, 191-217		8
151	A generalization of the classical Laguerre polynomials. <i>Rendiconti Del Circolo Matematico Di Palermo</i> , 1995 , 44, 315-329	0.5	8
150	The modification of classical hahn polynomials of a discrete variable. <i>Integral Transforms and Special Functions</i> , 1995 , 3, 243-262	1	8

149	Symmetrical Orthogonal Polynomials for Sobolev-Type Inner Products. <i>Journal of Mathematical Analysis and Applications</i> , 1994 , 184, 360-381	1.1	8
148	On orthogonal polynomials with respect to certain discrete Sobolev inner product. <i>Pacific Journal of Mathematics</i> , 2012 , 257, 167-188	0.5	8
147	On co-polynomials on the real line. <i>Journal of Mathematical Analysis and Applications</i> , 2015 , 427, 469-483	1.1	7
146	Zeros of paraorthogonal polynomials and linear spectral transformations on the unit circle. <i>Numerical Algorithms</i> , 2016 , 71, 699-714	2.1	7
145	Orthogonal polynomials, Catalan numbers, and a general Hankel determinant evaluation. <i>Linear Algebra and Its Applications</i> , 2012 , 436, 2105-2116	0.9	7
144	Zeros of orthogonal polynomials generated by canonical perturbations of measures. <i>Applied Mathematics and Computation</i> , 2012 , 218, 7109-7127	2.7	7
143	Perturbations of Laguerre-Blahn functional: modification by the derivative of a Dirac delta. <i>Integral Transforms and Special Functions</i> , 2009 , 20, 59-77	1	7
142	On semiclassical linear functionals of class $s=2$: classification and integral representations. <i>Journal of Difference Equations and Applications</i> , 2012 , 18, 973-1000	1	7
141	Asymptotic behaviour of Laguerre-Sobolev-type orthogonal polynomials. A nondiagonal case. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 235, 998-1007	2.4	7
140	Orthogonality properties of linear combinations of orthogonal polynomials II. <i>Advances in Computational Mathematics</i> , 1997 , 7, 401-428	1.6	7
139	Ratio and Plancherel-Rotach asymptotics for Meixner-Sobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2000 , 116, 63-75	2.4	7
138	Orthogonality properties of linear combinations of orthogonal polynomials. <i>Advances in Computational Mathematics</i> , 1996 , 5, 281-295	1.6	7
137	Analytic properties of Laguerre-type orthogonal polynomials. <i>Integral Transforms and Special Functions</i> , 2011 , 22, 107-122	1	6
136	Szegő transformations and rational spectral transformations for associated polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2009 , 233, 730-738	2.4	6
135	Perturbations of discrete semiclassical functionals by dirac masses. <i>Integral Transforms and Special Functions</i> , 1997 , 5, 19-46	1	6
134	Spectral transformations of measures supported on the unit circle and the Szegő transformation. <i>Numerical Algorithms</i> , 2008 , 49, 169-185	2.1	6
133	Logarithmic asymptotics of contracted Sobolev extremal polynomials on the real line. <i>Journal of Approximation Theory</i> , 2006 , 143, 62-73	0.9	6
132	Relative asymptotics for orthogonal matrix polynomials with respect to a perturbed matrix measure on the unit circle. <i>Analysis in Theory and Applications</i> , 2002 , 18, 1-19	1.5	6

131	On a Modification of the Jacobi Linear Functional: Asymptotic Properties and Zeros of the Corresponding Orthogonal Polynomials. <i>Acta Applicandae Mathematicae</i> , 2002 , 71, 127-158	1.1	6
130	Regular Sobolev Type Orthogonal Polynomials: The Bessel Case. <i>Rocky Mountain Journal of Mathematics</i> , 1995 , 25, 1431	1.4	6
129	Orthogonal polynomials and cubic transformations. <i>Journal of Computational and Applied Mathematics</i> , 1993 , 49, 161-168	2.4	6
128	Quadratic decomposition of a Laguerre-Hahn polynomial sequence I. <i>Bulletin of the Belgian Mathematical Society - Simon Stevin</i> , 2010 , 17,	2.1	6
127	On polynomials associated with an Uvarov modification of a quartic potential Freud-like weight. <i>Applied Mathematics and Computation</i> , 2016 , 281, 102-120	2.7	6
126	Asymptotic behavior of varying discrete Jacobi-Sobolev orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2016 , 300, 341-353	2.4	6
125	Matrix biorthogonal polynomials on the real line: Geronimus transformations. <i>Bulletin of Mathematical Sciences</i> , 2019 , 09, 1950007	0.9	5
124	Asymptotic behaviour of Sobolev orthogonal polynomials on the unit circle. <i>Integral Transforms and Special Functions</i> , 2013 , 24, 23-38	1	5
123	Asymptotics for varying discrete Sobolev orthogonal polynomials. <i>Applied Mathematics and Computation</i> , 2017 , 314, 65-79	2.7	5
122	Quadratures and integral transforms arising from generating functions. <i>Applied Mathematics and Computation</i> , 2017 , 297, 8-18	2.7	5
121	A matrix approach for the semiclassical and coherent orthogonal polynomials. <i>Applied Mathematics and Computation</i> , 2015 , 256, 459-471	2.7	5
120	Classical orthogonal polynomials with respect to a lowering operator generalizing the Laguerre operator. <i>Integral Transforms and Special Functions</i> , 2013 , 24, 636-648	1	5
119	A new linear spectral transformation associated with derivatives of Dirac linear functionals. <i>Journal of Approximation Theory</i> , 2011 , 163, 1834-1853	0.9	5
118	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	1	5
117	Quadratic decomposition of a family of H_q -semiclassical orthogonal polynomial sequences. <i>Journal of Difference Equations and Applications</i> , 2012 , 18, 2039-2057	1	5
116	Some Extension of the Bessel-type orthogonal polynomials. <i>Integral Transforms and Special Functions</i> , 1998 , 7, 191-214	1	5
115	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	1	5
114	Orthogonality of linear combinations of two orthogonal polynomial sequences. <i>Journal of Computational and Applied Mathematics</i> , 2001 , 137, 109-122	2.4	5

113	Characterization of the D_w -Laguerre-Hahn Functionals. <i>Journal of Difference Equations and Applications</i> , 2002 , 8, 689-717	1	5
112	Orthogonal polynomials and jump modifications. <i>Lecture Notes in Mathematics</i> , 1988 , 236-240	0.4	5
111	On zeros of regular orthogonal polynomials on the unit circle. <i>Annales Polonici Mathematici</i> , 1993 , 58, 287-298	1.3	5
110	On bivariate classical orthogonal polynomials. <i>Applied Mathematics and Computation</i> , 2018 , 325, 340-357	2.7	4
109	Matrix Pearson Equations Satisfied by Koornwinder Weights in Two Variables. <i>Acta Applicandae Mathematicae</i> , 2018 , 153, 81-100	1.1	4
108	An Extension of the Geronimus Transformation for Orthogonal Matrix Polynomials on the Real Line. <i>Mediterranean Journal of Mathematics</i> , 2016 , 13, 5009-5032	0.9	4
107	Christoffel Transformations for Matrix Orthogonal Polynomials in the Real Line and the non-Abelian 2D Toda Lattice Hierarchy. <i>International Mathematics Research Notices</i> , 2016 , rrw027	0.8	4
106	On an inverse problem for a linear combination of orthogonal polynomials. <i>Journal of Difference Equations and Applications</i> , 2014 , 20, 570-585	1	4
105	The structure of iterative methods for symmetric linear discrete ill-posed problems. <i>BIT Numerical Mathematics</i> , 2014 , 54, 129-145	1.7	4
104	OPUC, CMV matrices and perturbations of measures supported on the unit circle. <i>Linear Algebra and Its Applications</i> , 2015 , 485, 305-344	0.9	4
103	A non-symmetric second-degree semi-classical form of class one. <i>Integral Transforms and Special Functions</i> , 2012 , 23, 149-159	1	4
102	$(1, 1)$ - q -coherent pairs. <i>Numerical Algorithms</i> , 2012 , 60, 223-239	2.1	4
101	Zeros of Sobolev orthogonal polynomials on the unit circle. <i>Numerical Algorithms</i> , 2012 , 60, 669-681	2.1	4
100	On . <i>Journal of Mathematical Analysis and Applications</i> , 2013 , 398, 594-599	1.1	4
99	Linear Spectral Transformations and Laurent Polynomials. <i>Mediterranean Journal of Mathematics</i> , 2009 , 6, 273-289	0.9	4
98	A new numerical quadrature formula on the unit circle. <i>Numerical Algorithms</i> , 2007 , 44, 391-401	2.1	4
97	A scalar Riemann boundary value problem approach to orthogonal polynomials on the circle. <i>Journal of Approximation Theory</i> , 2006 , 141, 174-181	0.9	4
96	On the Right-Definite and Left-Definite Spectral Theory of the Legendre Polynomials. <i>Journal of Computational Analysis and Applications</i> , 2002 , 4, 363-387		4

95	A matrix algorithm towards solving the moment problem of Sobolev type. <i>Linear Algebra and Its Applications</i> , 2001 , 331, 155-164	0.9	4
94	The Sobolev-type moment problem. <i>Proceedings of the American Mathematical Society</i> , 2000 , 128, 2309-2317	0.9	4
93	On inverse problems for orthogonal polynomials, I. <i>Journal of Computational and Applied Mathematics</i> , 1993 , 49, 153-160	2.4	4
92	SEMICLASSICAL LINEAR FUNCTIONALS OF CLASS 2: THE SYMMETRIC CASE 2007 ,		4
91	Orthogonality of quasi-orthogonal polynomials. <i>Filomat</i> , 2018 , 32, 6953-6977	0.7	4
90	Relative Asymptotics of Matrix Orthogonal Polynomials for Uvarov Perturbations: The Degenerate Case. <i>Mediterranean Journal of Mathematics</i> , 2016 , 13, 3135-3153	0.9	4
89	Linear Combinations of d-Orthogonal Polynomials. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2019 , 42, 2009-2038	1.2	4
88	Sobolev Orthogonal Polynomials on the Unit Circle and Coherent Pairs of Measures of the Second Kind. <i>Results in Mathematics</i> , 2017 , 71, 1127-1149	0.9	3
87	On Freud-Sobolev type orthogonal polynomials. <i>Afrika Matematika</i> , 2019 , 30, 505-528	0.7	3
86	On Alpert multiwavelets. <i>Proceedings of the American Mathematical Society</i> , 2015 , 143, 2479-2494	0.8	3
85	A canonical Geronimus transformation for matrix orthogonal polynomials. <i>Linear and Multilinear Algebra</i> , 2018 , 66, 357-381	0.7	3
84	Weighted Sobolev spaces: Markov-type inequalities and duality. <i>Bulletin of Mathematical Sciences</i> , 2018 , 8, 233-256	0.9	3
83	(M,N)-Coherent pairs of linear functionals and Jacobi matrices. <i>Applied Mathematics and Computation</i> , 2014 , 232, 76-83	2.7	3
82	Relative asymptotics for orthogonal matrix polynomials. <i>Linear Algebra and Its Applications</i> , 2012 , 437, 1458-1481	0.9	3
81	Quadratic Decomposition of a Laguerre-Hahn Polynomial Sequence II. <i>Mediterranean Journal of Mathematics</i> , 2012 , 9, 21-45	0.9	3
80	Varying discrete Laguerre-Sobolev orthogonal polynomials: Asymptotic behavior and zeros. <i>Applied Mathematics and Computation</i> , 2013 , 222, 612-618	2.7	3
79	Jacobi-Sobolev orthogonal polynomials: Asymptotics and a Cohen type inequality. <i>Journal of Approximation Theory</i> , 2013 , 170, 78-93	0.9	3
78	An electrostatic model for zeros of perturbed Laguerre polynomials. <i>Proceedings of the American Mathematical Society</i> , 2014 , 142, 1733-1747	0.8	3

77	(1,1)-Coherent Pairs on the Unit Circle. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-8	0.7	3
76	(1,1)-D-Coherent pairs. <i>Journal of Difference Equations and Applications</i> , 2013 , 19, 1828-1848	1	3
75	Vector Interpretation of the Matrix Orthogonality on the Real Line. <i>Acta Applicandae Mathematicae</i> , 2010 , 112, 357-383	1.1	3
74	Orthogonal polynomials with respect to the sum of an arbitrary measure and a Bernstein-Szegő measure. <i>Advances in Computational Mathematics</i> , 2007 , 26, 81-104	1.6	3
73	Orthogonal polynomials and rational modifications of lebesgue measure on the unit circle. an inverse problem. <i>Complex Variables and Elliptic Equations</i> , 1999 , 38, 137-154		3
72	Quadratic decomposition of orthogonal polynomials: a matrix approach. <i>Numerical Algorithms</i> , 1992 , 3, 285-298	2.1	3
71	Asymptotics for the ratio of the leading coefficients of orthogonal polynomials associated with a jump modification. <i>Lecture Notes in Mathematics</i> , 1988 , 111-117	0.4	3
70	Analytical Properties of Touchard-Based Hybrid Polynomials via Operational Techniques. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2021 , 44, 223-242	1.2	3
69	Coherent pairs of bivariate orthogonal polynomials. <i>Journal of Approximation Theory</i> , 2019 , 245, 40-63	0.9	2
68	Asymptotics of Sobolev orthogonal polynomials for Hermite (1,1)-coherent pairs. <i>Journal of Mathematical Analysis and Applications</i> , 2018 , 467, 601-621	1.1	2
67	Matrix biorthogonal polynomials on the real line: Geronimus transformations. <i>Bulletin of Mathematical Sciences</i> , 2018 ,	0.9	2
66	Asymptotics for Laguerre-Sobolev type orthogonal polynomials modified within their oscillatory regime. <i>Applied Mathematics and Computation</i> , 2014 , 236, 260-272	2.7	2
65	Semi-classical linear functionals of class three: the symmetric case. <i>Journal of Difference Equations and Applications</i> , 2013 , 19, 162-178	1	2
64	On computational aspects of discrete Sobolev inner products on the unit circle. <i>Applied Mathematics and Computation</i> , 2013 , 223, 452-460	2.7	2
63	Generators of rational spectral transformations for nontrivial \mathcal{C} -functions. <i>Mathematics of Computation</i> , 2012 , 82, 1057-1068	1.6	2
62	Bases of the space of solutions of some fourth-order linear difference equations: applications in rational approximation. <i>Journal of Difference Equations and Applications</i> , 2013 , 19, 1632-1644	1	2
61	A note on monotonicity of zeros of generalized Hermite-Sobolev-type orthogonal polynomials. <i>Integral Transforms and Special Functions</i> , 2010 , 21, 831-838	1	2
60	Density of polynomials in some . <i>Linear Algebra and Its Applications</i> , 2011 , 435, 128-146	0.9	2

59	Asymptotic Properties of Orthogonal Polynomials with Respect to a Non-discrete Jacobi-Sobolev Inner Product. <i>Acta Applicandae Mathematicae</i> , 2010 , 110, 1309-1320	1.1	2
58	The Moments of the M/M/s Queue Length Process. <i>Queueing Systems</i> , 2003 , 44, 281-304	1.7	2
57	Generating functions and companion symmetric linear functionals. <i>Periodica Mathematica Hungarica</i> , 2003 , 46, 157-170	0.4	2
56	Connection coefficients for Laguerre-Sobolev orthogonal polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2003 , 283, 440-458	1.1	2
55	A Class of Nonsymmetric Orthogonal Polynomials on the Unit Circle. <i>Journal of Approximation Theory</i> , 2001 , 109, 30-47	0.9	2
54	Perturbations in Toeplitz matrices. II. Asymptotic properties. <i>Journal of Mathematical Analysis and Applications</i> , 1991 , 156, 44-51	1.1	2
53	Christoffel formulas for N-Kernels associated to Jordan arcs. <i>Lecture Notes in Mathematics</i> , 1985 , 195-203.	0.4	2
52	Generalized coherent pairs on the unit circle and Sobolev orthogonal polynomials. <i>Publications De L'Institut Mathematique</i> , 2014 , 96, 193-210	0.2	2
51	GENERALIZED COHERENT PAIRS. <i>Journal of the Korean Mathematical Society</i> , 2004 , 41, 977-994		2
50	Strong asymptotics on the support of the measure of orthogonality for polynomials orthogonal with respect to a discrete Sobolev inner product. <i>Methods and Applications of Analysis</i> , 1997 , 4, 53-66	0.3	2
49	Estimates for polynomials orthogonal with respect to some Gegenbauer-Sobolev type inner product. <i>Journal of Inequalities and Applications</i> , 1999 , 1999, 645-750	2.1	2
48	Szegő transformation and zeros of analytic perturbations of Chebyshev weights. <i>Journal of Mathematical Analysis and Applications</i> , 2019 , 470, 571-583	1.1	2
47	Discrete-Continuous Jacobi-Sobolev Spaces and Fourier Series. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2021 , 44, 571-598	1.2	2
46	On perturbed orthogonal polynomials on the real line and the unit circle via Szegő transformation. <i>Applied Mathematics and Computation</i> , 2017 , 302, 97-110	2.7	1
45	A matrix characterization for the Deformed semiclassical and Deformed coherent orthogonal polynomials. <i>Linear Algebra and Its Applications</i> , 2015 , 487, 242-259	0.9	1
44	Orthogonal polynomials and perturbations on measures supported on the real line and on the unit circle. A matrix perspective 2016 , 34, 287-326		1
43	Some New Identities Involving Sheffer-Appell Polynomial Sequences via Matrix Approach. <i>Mediterranean Journal of Mathematics</i> , 2019 , 16, 1	0.9	1
42	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	0.9	1

41	Sieved para-orthogonal polynomials on the unit circle. <i>Applied Mathematics and Computation</i> , 2014 , 244, 335-343	2.7	1
40	A Cohen type inequality for Laguerre–Sobolev expansions with a mass point outside their oscillatory regime. <i>Turkish Journal of Mathematics</i> , 2014 , 38, 994-1006	0.8	1
39	Lowering operators associated with D-Laguerre–Hahn polynomials. <i>Integral Transforms and Special Functions</i> , 2011 , 22, 879-893	1	1
38	Orthogonal polynomials and second-order pseudo-spectral linear differential equations. <i>Integral Transforms and Special Functions</i> , 2010 , 21, 487-501	1	1
37	Szegő transformations and Nth order associated polynomials on the unit circle. <i>Computers and Mathematics With Applications</i> , 2009 , 57, 1659-1671	2.7	1
36	Hardy-type theorem for orthogonal functions with respect to their zeros. The Jacobi weight case. <i>Journal of Mathematical Analysis and Applications</i> , 2008 , 341, 803-812	1.1	1
35	On the Krall-type polynomials. <i>Journal of Applied Mathematics</i> , 2004 , 2004, 359-369	1.1	1
34	Discrete-Continuous Symmetrized Sobolev Inner Products. <i>Acta Applicandae Mathematicae</i> , 2004 , 82, 309-331	1.1	1
33	Continuous symmetrized Sobolev inner products of order N (I). <i>Journal of Mathematical Analysis and Applications</i> , 2005 , 306, 83-96	1.1	1
32	Convex linear combinations of sequences of monic orthogonal polynomials. <i>Proceedings of the American Mathematical Society</i> , 1998 , 126, 2323-2331	0.8	1
31	Orthogonality with respect to the sum of two semiclassical regular linear forms. <i>Journal of Computational and Applied Mathematics</i> , 1991 , 37, 265-272	2.4	1
30	The characterization of the quasi-typical extension of an inner product. <i>Journal of Approximation Theory</i> , 1990 , 62, 235-242	0.9	1
29	From Standard Orthogonal Polynomials to Sobolev Orthogonal Polynomials: The Role of Semiclassical Linear Functionals. <i>Tutorials, Schools, and Workshops in the Mathematical Sciences</i> , 2020 , 245-292	0.2	1
28	Associated orthogonal polynomials of the first kind and Darboux transformations. <i>Journal of Mathematical Analysis and Applications</i> , 2022 , 508, 125883	1.1	1
27	On Co-polynomials on the Real Line and the Unit Circle. <i>Springer Optimization and Its Applications</i> , 2017 , 69-94	0.4	0
26	Christoffel Transformation for a Matrix of Bi-variate Measures. <i>Complex Analysis and Operator Theory</i> , 2019 , 13, 3979-4005	0.7	0
25	On Symmetric (1, 1)-Coherent Pairs and Sobolev Orthogonal polynomials: an algorithm to compute Fourier coefficients. <i>Revista Colombiana De Matematicas</i> , 2019 , 53, 139-164	0.2	0
24	2-Orthogonal polynomials and Darboux transformations. Applications to the discrete Hahn-classical case. <i>Journal of Difference Equations and Applications</i> , 2021 , 27, 431-452	1	0

23	(H _q)-Semiclassical orthogonal polynomials via polynomial mappings. <i>Ramanujan Journal</i> , 2021 , 54, 113-136	1.36
22	An inverse problem associated with (1,1) symmetric coherent linear functionals. <i>Integral Transforms and Special Functions</i> , 2019 , 30, 526-546	1
21	Foreword to the proceedings of the OrthoQuad 2014 conference. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 284, 1-9	2.4
20	Asymptotic behavior of the partial derivatives of Laguerre kernels and some applications. <i>Journal of Mathematical Analysis and Applications</i> , 2015 , 421, 314-328	1.1
19	International Conference on Mathematical Analysis & its Applications (ICMAA 2016) 2020 , 28, 1-2	
18	A Classification of Symmetric (1, 1)-Coherent Pairs of Linear Functionals. <i>Mathematics</i> , 2019 , 7, 213	2.3
17	Jacobi-Sobolev Orthogonal Polynomials: Asymptotics for N-Coherence of Measures. <i>Journal of Inequalities and Applications</i> , 2011 , 2011, 294134	2.1
16	Kernels and best approximations related to the system of ultraspherical polynomials. <i>Journal of Approximation Theory</i> , 2005 , 133, 173-194	0.9
15	Differential properties for Sobolev orthogonality on the unit circle. <i>Journal of Computational and Applied Mathematics</i> , 2001 , 133, 231-239	2.4
14	A Cubic Decomposition of Sequences of Orthogonal Polynomials on the Unit Circle. <i>Complex Variables and Elliptic Equations</i> , 2002 , 47, 745-759	
13	Ratio asymptotics for biorthogonal matrix polynomials with unbounded recurrence coefficients. <i>Applicable Analysis and Discrete Mathematics</i> , 2020 , 14, 754-774	1
12	An Extension of the Coherent Pair of Measures of the Second Kind on the Unit Circle. <i>Operator Theory: Advances and Applications</i> , 2021 , 113-142	0.4
11	On Some Recent Results on Asymptotic Behavior of Orthogonal Polynomials on the Unit Circle and Inserting Point Masses 2015 , 75-101	
10	On a Direct Uvarov-Chihara Problem and Some Extensions 2014 , 691-704	
9	Geronimus transformations of bivariate linear functionals. <i>Journal of Mathematical Analysis and Applications</i> , 2020 , 484, 123736	1.1
8	Rodrigues formula and recurrence coefficients for non-symmetric Dunkl-classical orthogonal polynomials. <i>Ramanujan Journal</i> , 2021 , 56, 451	0.7
7	Spectral Transformations and Associated Linear Functionals of the First Kind. <i>Axioms</i> , 2021 , 10, 107	1.6
6	A CMV connection between orthogonal polynomials on the unit circle and the real line. <i>Journal of Approximation Theory</i> , 2021 , 266, 105579	0.9

- 5 LupaType inequality and applications to Markov-type inequalities in weighted Sobolev spaces. *Bulletin of Mathematical Sciences*, **2021**, 11, 1950022 0.9
- 4 Discrete Semiclassical Orthogonal Polynomials of Class 2. *SEMA SIMAI Springer Series*, **2021**, 103-169 0.2
- 3 Special issue OPSFA15: orthogonal polynomials, special functions and applications. *Integral Transforms and Special Functions*, **2021**, 32, 333-335 1
- 2 Characterizations of the Symmetric $T_{(\theta, q)}$ -Classical Orthogonal q -Polynomials. *Mediterranean Journal of Mathematics*, **2022**, 19, 1 0.9
- 1 Second degree linear forms and semiclassical forms of class one: A case study. *Filomat*, **2022**, 36, 781-800.7