

Lance L Littlejohn

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	On Recurrence Relations for Sobolev Orthogonal Polynomials. <i>SIAM Journal on Mathematical Analysis</i> , 1995, 26, 446-467.	1.9	53
2	On the classification of differential equations having orthogonal polynomial solutions. <i>Annali Di Matematica Pura Ed Applicata</i> , 1984, 138, 35-53.	1.0	50
3	Jacobi's Stirling numbers, Jacobi polynomials, and the left-definite analysis of the classical Jacobi differential expression. <i>Journal of Computational and Applied Mathematics</i> , 2007, 208, 29-56.	2.0	49
4	On the classification of differential equations having orthogonal polynomial solutions II. <i>Annali Di Matematica Pura Ed Applicata</i> , 1987, 149, 77-102.	1.0	48
5	Orthogonal polynomial solutions of linear ordinary differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2001, 133, 85-109.	2.0	48
6	Sobolev Orthogonal Polynomials and Second-Order Differential Equations. <i>Rocky Mountain Journal of Mathematics</i> , 1998, 28, .	0.4	46
7	AN APPLICATION OF A NEW THEOREM ON ORTHOGONAL POLYNOMIALS AND DIFFERENTIAL EQUATIONS. <i>Quaestiones Mathematicae</i> , 1986, 10, 49-61.	0.6	41
8	Legendre polynomials, Legendre's Stirling numbers, and the left-definite spectral analysis of the Legendre differential expression. <i>Journal of Computational and Applied Mathematics</i> , 2002, 148, 213-238.	2.0	37
9	A combinatorial interpretation of the Legendre-Stirling numbers. <i>Proceedings of the American Mathematical Society</i> , 2009, 137, 2581-2581.	0.8	33
10	A General Left-Definite Theory for Certain Self-Adjoint Operators with Applications to Differential Equations. <i>Journal of Differential Equations</i> , 2002, 181, 280-339.	2.2	31
11	Distributional solutions of the hypergeometric differential equation. <i>Journal of Mathematical Analysis and Applications</i> , 1987, 122, 325-345.	1.0	28
12	The Legendre's Stirling numbers. <i>Discrete Mathematics</i> , 2011, 311, 1255-1272.	0.7	27
13	Orthogonal polynomials and singular Sturm-Liouville Systems, I. <i>Rocky Mountain Journal of Mathematics</i> , 1986, 16, 435.	0.4	26
14	Characterizations of Orthogonal Polynomials Satisfying Differential Equations. <i>SIAM Journal on Mathematical Analysis</i> , 1994, 25, 976-990.	1.9	26
15	Orthogonal polynomials and higher order singular Sturm-Liouville systems. <i>Acta Applicandae Mathematicae</i> , 1989, 17, 99-170.	1.0	24
16	The Jacobi's Stirling numbers. <i>Journal of Combinatorial Theory - Series A</i> , 2013, 120, 288-303.	0.8	23
17	Orthogonal polynomial eigenfunctions of second-order partial differential equations. <i>Transactions of the American Mathematical Society</i> , 2001, 353, 3629-3647.	0.9	22
18	Nonclassical Orthogonal Polynomials as Solutions to Second Order Differential Equations. <i>Canadian Mathematical Bulletin</i> , 1982, 25, 291-295.	0.5	21

#	ARTICLE	IF	CITATIONS
19	The Sobolev orthogonality and spectral analysis of the Laguerre polynomials $\{L_n^{\alpha, \beta}\}$ for positive integers k . Journal of Computational and Applied Mathematics, 2004, 171, 199-234.	2.0	20
20	The spectral analysis of three families of exceptional Laguerre polynomials. Journal of Approximation Theory, 2016, 202, 5-41.	0.8	18
21	Orthogonal polynomials and approximation in Sobolev spaces. Journal of Computational and Applied Mathematics, 1993, 48, 69-90.	2.0	16
22	Orthogonal Polynomial Solutions of Spectral Type Differential Equations: Magnus' Conjecture. Journal of Approximation Theory, 2001, 112, 189-215.	0.8	16
23	ON SOME PROPERTIES OF THE LEGENDRE TYPE DIFFERENTIAL EXPRESSION. Quaestiones Mathematicae, 1990, 13, 83-106.	0.6	15
24	H. J. S. Smith and the Fermat Two Squares Theorem. American Mathematical Monthly, 1999, 106, 652-665.	0.3	15
25	On analytic sampling theory. Journal of Computational and Applied Mathematics, 2004, 171, 235-246.	2.0	14
26	On self-adjoint boundary conditions for singular Sturm-Liouville operators bounded from below. Journal of Differential Equations, 2020, 269, 6448-6491.	2.2	14
27	Factorizations and Hardy-Rellich-type inequalities. , 0, , 207-226.		14
28	The left-definite spectral theory for the classical Hermite differential equation. Journal of Computational and Applied Mathematics, 2000, 121, 313-330.	2.0	13
29	Symmetry Factors for Differential Equations. American Mathematical Monthly, 1983, 90, 462-464.	0.3	12
30	Differential Operators and the Laguerre Type Polynomials. SIAM Journal on Mathematical Analysis, 1992, 23, 722-736.	1.9	12
31	Differential equations having orthogonal polynomial solutions. Journal of Computational and Applied Mathematics, 1997, 80, 1-16.	2.0	12
32	The Fourth-order Bessel-type Differential Equation. Applicable Analysis, 2004, 83, 325-362.	1.3	11
33	Properties of the solutions of the fourth-order Bessel-type differential equation. Journal of Mathematical Analysis and Applications, 2009, 359, 252-264.	1.0	11
34	On Birman's sequence of Hardy-Rellich-type inequalities. Journal of Differential Equations, 2018, 264, 2761-2801.	2.2	11
35	H. J. S. Smith and the Fermat Two Squares Theorem. American Mathematical Monthly, 1999, 106, 652.	0.3	11
36	Asymptotics of Stirling and Chebyshev-Stirling Numbers of the Second Kind. Studies in Applied Mathematics, 2014, 133, 1-17.	2.4	10

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37	The Krall Polynomials as Solutions to a Second Order Differential Equation. Canadian Mathematical Bulletin, 1983, 26, 410-417.	0.5	10
38	Symmetric and Symmetrisable Differential Expressions. Proceedings of the London Mathematical Society, 1990, s3-60, 344-364.	1.3	9
39	Real orthogonalizing weights for Bessel polynomials. Journal of Computational and Applied Mathematics, 1993, 49, 51-57.	2.0	9
40	Sobolev orthogonal polynomials in two variables and second order partial differential equations. Journal of Mathematical Analysis and Applications, 2006, 322, 1001-1017.	1.0	9
41	THE LEGENDRE POLYNOMIALS UNDER A LEFT DEFINITE ENERGY NORM. Quaestiones Mathematicae, 1993, 16, 393-403.	0.6	8
42	The symmetric form of the Koekoeks' Laguerre type differential equation. Journal of Computational and Applied Mathematics, 1995, 57, 115-121.	2.0	8
43	Sobolev orthogonal polynomials and spectral differential equations. Transactions of the American Mathematical Society, 1995, 347, 3629-3643.	0.9	8
44	Symmetry Factors for Differential Equations. American Mathematical Monthly, 1983, 90, 462.	0.3	7
45	On Properties of the Legendre Differential Expression. Resultate Der Mathematik, 2002, 42, 42-68.	0.2	7
46	Construction of differential operators having Bochner's Krall orthogonal polynomials as eigenfunctions. Journal of Mathematical Analysis and Applications, 2006, 324, 285-303.	1.0	7
47	Fourth-order Bessel equation: eigenpackets and a generalized Hankel transform. Integral Transforms and Special Functions, 2006, 17, 845-862.	1.2	7
48	Ghost matrices and a characterization of symmetric Sobolev bilinear forms. Linear Algebra and Its Applications, 2009, 431, 104-119.	0.9	7
49	On the asymptotic normality of the Legendre's Stirling numbers of the second kind. European Journal of Combinatorics, 2015, 49, 218-231.	0.8	7
50	Differential operator for discrete Gegenbauer's Sobolev orthogonal polynomials: Eigenvalues and asymptotics. Journal of Approximation Theory, 2018, 230, 32-49.	0.8	7
51	Radial and logarithmic refinements of Hardy's inequality. St Petersburg Mathematical Journal, 2019, 30, 429-436.	0.4	7
52	A singular sixth order differential equation with orthogonal polynomial eigenfunctions. Lecture Notes in Mathematics, 1982, , 435-444.	0.2	6
53	The left-definite Legendre type boundary problem. Constructive Approximation, 1991, 7, 485-500.	3.0	6
54	The Laguerre Type Operator in a Left Definite Hilbert Space. Journal of Mathematical Analysis and Applications, 1995, 192, 460-468.	1.0	6

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55	Differential equations and Sobolev orthogonality. Journal of Computational and Applied Mathematics, 1995, 65, 173-180.	2.0	5
56	BOCHNER-KRALL ORTHOGONAL POLYNOMIALS. , 2000, , .		5
57	Additional spectral properties of the fourth-order Bessel-type differential equation. Mathematische Nachrichten, 2005, 278, 1538-1549.	0.8	5
58	Left-definite theory with applications to orthogonal polynomials. Journal of Computational and Applied Mathematics, 2010, 233, 1380-1398.	2.0	5
59	A spectral study of the second-order exceptional X differential expression and a related non-classical Jacobi differential expression. Journal of Mathematical Analysis and Applications, 2015, 422, 212-239.		
60	ORTHOGONAL POLYNOMIALS SATISFYING PARTIAL DIFFERENTIAL EQUATIONS BELONGING TO THE BASIC CLASS. Journal of the Korean Mathematical Society, 2004, 41, 1049-1070.	0.4	5
61	Orthogonal polynomials and extensions of Copson's inequality. Journal of Computational and Applied Mathematics, 1993, 48, 33-48.	2.0	4
62	On the Right-Definite and Left-Definite Spectral Theory of the Legendre Polynomials. Journal of Computational Analysis and Applications, 2002, 4, 363-387.	0.2	4
63	A construction of real weight functions for certain orthogonal polynomials in two variables. Journal of Mathematical Analysis and Applications, 2006, 319, 475-493.	1.0	4
64	Quasi-separation of the biharmonic partial differential equation. IMA Journal of Applied Mathematics, 2009, 74, 685-709.	1.6	4
65	Nonclassical Jacobi Polynomials and Sobolev Orthogonality. Results in Mathematics, 2012, 61, 283-313.	0.8	4
66	On the Spectra of Left-Definite Operators. Complex Analysis and Operator Theory, 2013, 7, 437-455.	0.6	4
67	Glazman's Krein's Naimark theory, left-definite theory and the square of the Legendre polynomials differential operator. Journal of Mathematical Analysis and Applications, 2016, 444, 1-24.	1.0	4
68	A Sequence of Weighted Birman's Hardy's Rellich Inequalities with Logarithmic Refinements. Integral Equations and Operator Theory, 2022, 94, 1.	0.8	4
69	Variation of parameters and solutions of composite products of linear differential equations. Journal of Mathematical Analysis and Applications, 2010, 369, 658-670.	1.0	3
70	Factorization of second-order linear differential equations and Liouville's Neumann expansions. Mathematical and Computer Modelling, 2013, 57, 1514-1530.	2.0	3
71	Diagonalizability and symmetrizability of Sobolev-type bilinear forms: A combinatorial approach. Linear Algebra and Its Applications, 2014, 460, 111-124.	0.9	3
72	The Krein's von Neumann extension revisited. Applicable Analysis, 0, , 1-24.	1.3	3

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73	Characterization of classical type orthogonal polynomials. Proceedings of the American Mathematical Society, 1994, 120, 485-493.	0.8	3
74	Self-adjoint operators and the general GKN-EM theorem. Operators and Matrices, 2019, , 667-704.	0.3	3
75	THE LEGENDRE TYPE OPERATOR IN A LEFT DEFINITE HILBERT SPACE. Quaestiones Mathematicae, 1992, 15, 467-475.	0.6	2
76	Classical and Sobolev orthogonality of the nonclassical Jacobi polynomials with parameters $\alpha = -1$. Annali Di Matematica Pura Ed Applicata, 2014, 193, 431-455.	1.0	2
77	Spectral analysis of the sixth-order Krall differential expression. Advances in Operator Theory, 2020, 5, 1078-1099.	0.6	2
78	Self-Adjoint Operators Generated from Non-Lagrangian Symmetric Differential Equations Having Orthogonal Polynomial Eigenfunctions. Rocky Mountain Journal of Mathematics, 2001, 31, .	0.4	2
79	Weight Distributions and Moments for a Certain Class of Orthogonal Polynomials. North-Holland Mathematics Studies, 1984, 92, 413-419.	0.2	1
80	Symmetry factors for differential equations with applications to orthogonal polynomials. Acta Mathematica Hungarica, 1990, 56, 57-63.	0.5	1
81	Franciszek Hugon Szafraniec: A Scholar of Eminence. Complex Analysis and Operator Theory, 2012, 6, 529-531.	0.6	1
82	A Solution to the General Bessel Moment Problem. , 1992, , 205-220.		1
83	ON THE COMPLETENESS OF ORTHOGONAL POLYNOMIALS IN LEFT-DEFINITE SOBOLEV SPACES. , 1993, , 173-196.		0
84	Zeros of orthogonal polynomials in certain discrete Sobolev spaces. Journal of Computational and Applied Mathematics, 1996, 67, 309-325.	2.0	0
85	Zeros of Jacobi and ultraspherical polynomials. Ramanujan Journal, 0, , 1.	0.7	0