

# Lance L Littlejohn

## List of Publications by Year in descending order

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85  
papers

1,126  
citations

394421

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docs citations

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times ranked

211  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Sequence of Weighted Birman–Hardy–Rellich Inequalities with Logarithmic Refinements. <i>Integral Equations and Operator Theory</i> , 2022, 94, 1.	0.8	4
2	Spectral analysis of the sixth-order Krall differential expression. <i>Advances in Operator Theory</i> , 2020, 5, 1078-1099.	0.6	2
3	On self-adjoint boundary conditions for singular Sturm–Liouville operators bounded from below. <i>Journal of Differential Equations</i> , 2020, 269, 6448-6491.	2.2	14
4	Radial and logarithmic refinements of Hardy’s inequality. <i>St Petersburg Mathematical Journal</i> , 2019, 30, 429-436.	0.4	7
5	Self-adjoint operators and the general GKN-EM theorem. <i>Operators and Matrices</i> , 2019, , 667-704.	0.3	3
6	On Birman’s sequence of Hardy–Rellich-type inequalities. <i>Journal of Differential Equations</i> , 2018, 264, 2761-2801.	2.2	11
7	Differential operator for discrete Gegenbauer–Sobolev orthogonal polynomials: Eigenvalues and asymptotics. <i>Journal of Approximation Theory</i> , 2018, 230, 32-49.	0.8	7
8	Glazman–Krein–Naimark theory, left-definite theory and the square of the Legendre polynomials differential operator. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 444, 1-24.	1.0	4
9	The spectral analysis of three families of exceptional Laguerre polynomials. <i>Journal of Approximation Theory</i> , 2016, 202, 5-41.	0.8	18
10	On the asymptotic normality of the Legendre–Stirling numbers of the second kind. <i>European Journal of Combinatorics</i> , 2015, 49, 218-231.	0.8	7
11	A spectral study of the second-order exceptional $X$ differential expression and a related non-classical Jacobi differential expression. <i>Journal of Mathematical Analysis and Applications</i> , 2015, 422, 212-239.		
12	Asymptotics of Stirling and Chebyshev–Stirling Numbers of the Second Kind. <i>Studies in Applied Mathematics</i> , 2014, 133, 1-17.	2.4	10
13	Diagonalizability and symmetrizability of Sobolev-type bilinear forms: A combinatorial approach. <i>Linear Algebra and Its Applications</i> , 2014, 460, 111-124.	0.9	3
14	Classical and Sobolev orthogonality of the nonclassical Jacobi polynomials with parameters $\alpha = -1$ . <i>Annali Di Matematica Pura Ed Applicata</i> , 2014, 193, 431-455.	1.0	2
15	On the Spectra of Left-Definite Operators. <i>Complex Analysis and Operator Theory</i> , 2013, 7, 437-455.	0.6	4
16	Factorization of second-order linear differential equations and Liouville–Neumann expansions. <i>Mathematical and Computer Modelling</i> , 2013, 57, 1514-1530.	2.0	3
17	The Jacobi–Stirling numbers. <i>Journal of Combinatorial Theory - Series A</i> , 2013, 120, 288-303.	0.8	23
18	Nonclassical Jacobi Polynomials and Sobolev Orthogonality. <i>Results in Mathematics</i> , 2012, 61, 283-313.	0.8	4

#	ARTICLE	IF	CITATIONS
19	Franciszek Hugon Szafraniec: A Scholar of Eminence. <i>Complex Analysis and Operator Theory</i> , 2012, 6, 529-531.	0.6	1
20	The Legendre-Stirling numbers. <i>Discrete Mathematics</i> , 2011, 311, 1255-1272.	0.7	27
21	Variation of parameters and solutions of composite products of linear differential equations. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 369, 658-670.	1.0	3
22	Left-definite theory with applications to orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 1380-1398.	2.0	5
23	Quasi-separation of the biharmonic partial differential equation. <i>IMA Journal of Applied Mathematics</i> , 2009, 74, 685-709.	1.6	4
24	Properties of the solutions of the fourth-order Bessel-type differential equation. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 359, 252-264.	1.0	11
25	Ghost matrices and a characterization of symmetric Sobolev bilinear forms. <i>Linear Algebra and Its Applications</i> , 2009, 431, 104-119.	0.9	7
26	A combinatorial interpretation of the Legendre-Stirling numbers. <i>Proceedings of the American Mathematical Society</i> , 2009, 137, 2581-2581.	0.8	33
27	Jacobi-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
28	A construction of real weight functions for certain orthogonal polynomials in two variables. <i>Journal of Mathematical Analysis and Applications</i> , 2006, 319, 475-493.	1.0	4
29	Sobolev orthogonal polynomials in two variables and second order partial differential equations. <i>Journal of Mathematical Analysis and Applications</i> , 2006, 322, 1001-1017.	1.0	9
30	Construction of differential operators having Bochner-Krall orthogonal polynomials as eigenfunctions. <i>Journal of Mathematical Analysis and Applications</i> , 2006, 324, 285-303.	1.0	7
31	Fourth-order Bessel equation: eigenpackets and a generalized Hankel transform. <i>Integral Transforms and Special Functions</i> , 2006, 17, 845-862.	1.2	7
32	Additional spectral properties of the fourth-order Bessel-type differential equation. <i>Mathematische Nachrichten</i> , 2005, 278, 1538-1549.	0.8	5
33	On analytic sampling theory. <i>Journal of Computational and Applied Mathematics</i> , 2004, 171, 235-246.	2.0	14
34	The Sobolev orthogonality and spectral analysis of the Laguerre polynomials $\{L_n^k\}$ for positive integers $k$ . <i>Journal of Computational and Applied Mathematics</i> , 2004, 171, 199-234.	2.0	20
35	The Fourth-order Bessel-type Differential Equation. <i>Applicable Analysis</i> , 2004, 83, 325-362.	1.3	11
36	ORTHOGONAL POLYNOMIALS SATISFYING PARTIAL DIFFERENTIAL EQUATIONS BELONGING TO THE BASIC CLASS. <i>Journal of the Korean Mathematical Society</i> , 2004, 41, 1049-1070.	0.4	5

#	ARTICLE	IF	CITATIONS
37	On Properties of the Legendre Differential Expression. Resultate Der Mathematik, 2002, 42, 42-68.	0.2	7
38	A General Left-Definite Theory for Certain Self-Adjoint Operators with Applications to Differential Equations. Journal of Differential Equations, 2002, 181, 280-339.	2.2	31
39	Legendre polynomials, Legendre's Stirling numbers, and the left-definite spectral analysis of the Legendre differential expression. Journal of Computational and Applied Mathematics, 2002, 148, 213-238.	2.0	37
40	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
41	Orthogonal polynomial eigenfunctions of second-order partial differential equations. Transactions of the American Mathematical Society, 2001, 353, 3629-3647.	0.9	22
42	Orthogonal polynomial solutions of linear ordinary differential equations. Journal of Computational and Applied Mathematics, 2001, 133, 85-109.	2.0	48
43	Orthogonal Polynomial Solutions of Spectral Type Differential Equations: Magnus' Conjecture. Journal of Approximation Theory, 2001, 112, 189-215.	0.8	16
44	Self-Adjoint Operators Generated from Non-Lagrangian Symmetric Differential Equations Having Orthogonal Polynomial Eigenfunctions. Rocky Mountain Journal of Mathematics, 2001, 31, .	0.4	2
45	BOCHNER-KRALL ORTHOGONAL POLYNOMIALS. , 2000, , .		5
46	The left-definite spectral theory for the classical Hermite differential equation. Journal of Computational and Applied Mathematics, 2000, 121, 313-330.	2.0	13
47	H. J. S. Smith and the Fermat Two Squares Theorem. American Mathematical Monthly, 1999, 106, 652-665.	0.3	15
48	H. J. S. Smith and the Fermat Two Squares Theorem. American Mathematical Monthly, 1999, 106, 652.	0.3	11
49	Sobolev Orthogonal Polynomials and Second-Order Differential Equations. Rocky Mountain Journal of Mathematics, 1998, 28, .	0.4	46
50	Differential equations having orthogonal polynomial solutions. Journal of Computational and Applied Mathematics, 1997, 80, 1-16.	2.0	12
51	Zeros of orthogonal polynomials in certain discrete Sobolev spaces. Journal of Computational and Applied Mathematics, 1996, 67, 309-325.	2.0	0
52	The Laguerre Type Operator in a Left Definite Hilbert Space. Journal of Mathematical Analysis and Applications, 1995, 192, 460-468.	1.0	6
53	Differential equations and Sobolev orthogonality. Journal of Computational and Applied Mathematics, 1995, 65, 173-180.	2.0	5
54	The symmetric form of the Koekoeks' Laguerre type differential equation. Journal of Computational and Applied Mathematics, 1995, 57, 115-121.	2.0	8

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55	Sobolev orthogonal polynomials and spectral differential equations. Transactions of the American Mathematical Society, 1995, 347, 3629-3643.	0.9	8
56	On Recurrence Relations for Sobolev Orthogonal Polynomials. SIAM Journal on Mathematical Analysis, 1995, 26, 446-467.	1.9	53
57	Characterizations of Orthogonal Polynomials Satisfying Differential Equations. SIAM Journal on Mathematical Analysis, 1994, 25, 976-990.	1.9	26
58	Characterization of classical type orthogonal polynomials. Proceedings of the American Mathematical Society, 1994, 120, 485-493.	0.8	3
59	Real orthogonalizing weights for Bessel polynomials. Journal of Computational and Applied Mathematics, 1993, 49, 51-57.	2.0	9
60	Orthogonal polynomials and extensions of Copson's inequality. Journal of Computational and Applied Mathematics, 1993, 48, 33-48.	2.0	4
61	Orthogonal polynomials and approximation in Sobolev spaces. Journal of Computational and Applied Mathematics, 1993, 48, 69-90.	2.0	16
62	THE LEGENDRE POLYNOMIALS UNDER A LEFT DEFINITE ENERGY NORM. Quaestiones Mathematicae, 1993, 16, 393-403.	0.6	8
63	ON THE COMPLETENESS OF ORTHOGONAL POLYNOMIALS IN LEFT-DEFINITE SOBOLEV SPACES. , 1993, , 173-196.		0
64	Differential Operators and the Laguerre Type Polynomials. SIAM Journal on Mathematical Analysis, 1992, 23, 722-736.	1.9	12
65	THE LEGENDRE TYPE OPERATOR IN A LEFT DEFINITE HILBERT SPACE. Quaestiones Mathematicae, 1992, 15, 467-475.	0.6	2
66	A Solution to the General Bessel Moment Problem. , 1992, , 205-220.		1
67	The left-definite Legendre type boundary problem. Constructive Approximation, 1991, 7, 485-500.	3.0	6
68	Symmetry factors for differential equations with applications to orthogonal polynomials. Acta Mathematica Hungarica, 1990, 56, 57-63.	0.5	1
69	Symmetric and Symmetrisable Differential Expressions. Proceedings of the London Mathematical Society, 1990, s3-60, 344-364.	1.3	9
70	ON SOME PROPERTIES OF THE LEGENDRE TYPE DIFFERENTIAL EXPRESSION. Quaestiones Mathematicae, 1990, 13, 83-106.	0.6	15
71	Orthogonal polynomials and higher order singular Sturm-Liouville systems. Acta Applicandae Mathematicae, 1989, 17, 99-170.	1.0	24
72	Distributional solutions of the hypergeometric differential equation. Journal of Mathematical Analysis and Applications, 1987, 122, 325-345.	1.0	28

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73	On the classification of differential equations having orthogonal polynomial solutions " II. Annali Di Matematica Pura Ed Applicata, 1987, 149, 77-102.	1.0	48
74	AN APPLICATION OF A NEW THEOREM ON ORTHOGONAL POLYNOMIALS AND DIFFERENTIAL EQUATIONS. Quaestiones Mathematicae, 1986, 10, 49-61.	0.6	41
75	Orthogonal polynomials and singular Sturm-Liouville Systems, I. Rocky Mountain Journal of Mathematics, 1986, 16, 435.	0.4	26
76	On the classification of differential equations having orthogonal polynomial solutions. Annali Di Matematica Pura Ed Applicata, 1984, 138, 35-53.	1.0	50
77	Weight Distributions and Moments for a Certain Class of Orthogonal Polynomials. North-Holland Mathematics Studies, 1984, 92, 413-419.	0.2	1
78	Symmetry Factors for Differential Equations. American Mathematical Monthly, 1983, 90, 462.	0.3	7
79	Symmetry Factors for Differential Equations. American Mathematical Monthly, 1983, 90, 462-464.	0.3	12
80	The Krall Polynomials as Solutions to a Second Order Differential Equation. Canadian Mathematical Bulletin, 1983, 26, 410-417.	0.5	10
81	A singular sixth order differential equation with orthogonal polynomial eigenfunctions. Lecture Notes in Mathematics, 1982, , 435-444.	0.2	6
82	Nonclassical Orthogonal Polynomials as Solutions to Second Order Differential Equations. Canadian Mathematical Bulletin, 1982, 25, 291-295.	0.5	21
83	The Krein"von Neumann extension revisited. Applicable Analysis, 0, , 1-24.	1.3	3
84	Factorizations and Hardy"Rellich-type inequalities. , 0, , 207-226.		14
85	Zeros of Jacobi and ultraspherical polynomials. Ramanujan Journal, 0, , 1.	0.7	0