

# Leevan Ling

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8032839/publications.pdf>

Version: 2024-02-01

70  
papers

1,915  
citations

257357

24  
h-index

254106

43  
g-index

73  
all docs

73  
docs citations

73  
times ranked

852  
citing authors

#	ARTICLE	IF	CITATIONS
1	Method of fundamental solutions with regularization techniques for Cauchy problems of elliptic operators. <i>Engineering Analysis With Boundary Elements</i> , 2007, 31, 373-385.	2.0	157
2	Results on meshless collocation techniques. <i>Engineering Analysis With Boundary Elements</i> , 2006, 30, 247-253.	2.0	114
3	Numerical simulations of 2D fractional subdiffusion problems. <i>Journal of Computational Physics</i> , 2010, 229, 6613-6622.	1.9	102
4	Method of approximate particular solutions for constant- and variable-order fractional diffusion models. <i>Engineering Analysis With Boundary Elements</i> , 2015, 57, 37-46.	2.0	98
5	Identification of source locations in two-dimensional heat equations. <i>Inverse Problems</i> , 2006, 22, 1289-1305.	1.0	97
6	Preconditioning for radial basis functions with domain decomposition methods. <i>Mathematical and Computer Modelling</i> , 2004, 40, 1413-1427.	2.0	95
7	A least-squares preconditioner for radial basis functions collocation methods. <i>Advances in Computational Mathematics</i> , 2005, 23, 31-54.	0.8	88
8	The role of the multiquadric shape parameters in solving elliptic partial differential equations. <i>Computers and Mathematics With Applications</i> , 2006, 51, 1335-1348.	1.4	77
9	On approximate cardinal preconditioning methods for solving PDEs with radial basis functions. <i>Engineering Analysis With Boundary Elements</i> , 2005, 29, 343-353.	2.0	76
10	Numerical simulation of two-dimensional combustion using mesh-free methods. <i>Engineering Analysis With Boundary Elements</i> , 2009, 33, 940-950.	2.0	74
11	Meshless simulations of the two-dimensional fractional-time convection–diffusion–reaction equations. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 1522-1527.	2.0	66
12	Stable and Convergent Unsymmetric Meshless Collocation Methods. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 1097-1115.	1.1	62
13	A volumetric integral radial basis function method for time-dependent partial differential equations. I. Formulation. <i>Engineering Analysis With Boundary Elements</i> , 2004, 28, 1191-1206.	2.0	58
14	An improved subspace selection algorithm for meshless collocation methods. <i>International Journal for Numerical Methods in Engineering</i> , 2009, 80, 1623-1639.	1.5	43
15	Applicability of the method of fundamental solutions. <i>Engineering Analysis With Boundary Elements</i> , 2009, 33, 637-643.	2.0	40
16	An RBF-FD closest point method for solving PDEs on surfaces. <i>Journal of Computational Physics</i> , 2018, 370, 43-57.	1.9	37
17	Inverse source identification for Poisson equation. <i>Inverse Problems in Science and Engineering</i> , 2005, 13, 433-447.	1.2	35
18	A univariate quasi-multiquadric interpolation with better smoothness. <i>Computers and Mathematics With Applications</i> , 2004, 48, 897-912.	1.4	34

#	ARTICLE	IF	CITATIONS
19	A stabilized radial basis-finite difference (RBF-FD) method with hybrid kernels. <i>Computers and Mathematics With Applications</i> , 2019, 77, 2354-2368.	1.4	33
20	On convergent numerical algorithms for unsymmetric collocation. <i>Advances in Computational Mathematics</i> , 2009, 30, 339-354.	0.8	31
21	Numerical investigation on the effect of tumor on the thermal behavior inside the skin tissue. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 1154-1163.	2.5	29
22	Multiquadric collocation method with integral formulation for boundary layer problems. <i>Computers and Mathematics With Applications</i> , 2004, 48, 927-941.	1.4	27
23	Improved numerical solver for Kansa's method based on affine space decomposition. <i>Engineering Analysis With Boundary Elements</i> , 2005, 29, 1077-1085.	2.0	27
24	A least-squares implicit RBF-FD closest point method and applications to PDEs on moving surfaces. <i>Journal of Computational Physics</i> , 2019, 381, 146-161.	1.9	25
25	A Kernel-Based Embedding Method and Convergence Analysis for Surfaces PDEs. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, A266-A287.	1.3	24
26	$H^2$ -Convergence of Least-Squares Kernel Collocation Methods. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 614-633.	1.1	22
27	Doubly stochastic radial basis function methods. <i>Journal of Computational Physics</i> , 2018, 363, 87-97.	1.9	20
28	Adaptive multiquadric collocation for boundary layer problems. <i>Journal of Computational and Applied Mathematics</i> , 2006, 188, 265-282.	1.1	19
29	An Energy Regularization for Cauchy Problems of Laplace Equation in Annulus Domain. <i>Communications in Computational Physics</i> , 2011, 9, 878-896.	0.7	18
30	Optimality of the method of fundamental solutions. <i>Engineering Analysis With Boundary Elements</i> , 2011, 35, 42-46.	2.0	18
31	Combinations of the method of fundamental solutions for general inverse source identification problems. <i>Applied Mathematics and Computation</i> , 2012, 219, 1173-1182.	1.4	18
32	Convergent Overdetermined-RBF-MLPG for Solving Second Order Elliptic PDEs. <i>Advances in Applied Mathematics and Mechanics</i> , 2013, 5, 78-89.	0.7	18
33	Moving-boundary problems solved by adaptive radial basis functions. <i>Computers and Fluids</i> , 2010, 39, 1480-1490.	1.3	16
34	Confidence intervals for a difference between proportions based on paired data. <i>Statistics in Medicine</i> , 2010, 29, 86-96.	0.8	16
35	Extrinsic Meshless Collocation Methods for PDEs on Manifolds. <i>SIAM Journal on Numerical Analysis</i> , 2020, 58, 988-1007.	1.1	15
36	Finding Numerical Derivatives for Unstructured and Noisy Data by Multiscale Kernels. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 1780-1800.	1.1	14

#	ARTICLE	IF	CITATIONS
37	A localized extrinsic collocation method for Turing pattern formations on surfaces. Applied Mathematics Letters, 2021, 122, 107534.	1.5	13
38	Multivariate quasi-interpolation schemes for dimension-splitting multiquadric. Applied Mathematics and Computation, 2005, 161, 195-209.	1.4	12
39	A localized meshless method for diffusion on folded surfaces. Journal of Computational Physics, 2015, 297, 194-206.	1.9	12
40	A Fast Block-Greedy Algorithm for Quasi-optimal Meshless Trial Subspace Selection. SIAM Journal of Scientific Computing, 2016, 38, A1224-A1250.	1.3	12
41	Stability analysis for the penalty plus hybrid and the direct Trefftz methods for singularity problems. Engineering Analysis With Boundary Elements, 2007, 31, 163-175.	2.0	11
42	A fractional model for time-variant non-Newtonian flow. Thermal Science, 2017, 21, 61-68.	0.5	11
43	An adaptive hybrid meshfree approximation method. International Journal for Numerical Methods in Engineering, 2012, 89, 637-657.	1.5	9
44	A stochastic extended Rippa's algorithm for LpOCV. Applied Mathematics Letters, 2022, 129, 107955.	1.5	9
45	An adaptive greedy technique for inverse boundary determination problem. Journal of Computational Physics, 2010, 229, 8484-8496.	1.9	8
46	Numerical Caputo Differentiation by Radial Basis Functions. Journal of Scientific Computing, 2015, 62, 300-315.	1.1	7
47	ADAPTIVE METHOD OF PARTICULAR SOLUTION FOR SOLVING 3D INHOMOGENEOUS ELLIPTIC EQUATIONS. International Journal of Computational Methods, 2010, 07, 499-511.	0.8	6
48	On numerical experiments for Cauchy problems of elliptic operators. Engineering Analysis With Boundary Elements, 2011, 35, 879-882.	2.0	6
49	NUMERICAL SIMULATIONS FOR SPACE-TIME FRACTIONAL DIFFUSION EQUATIONS. International Journal of Computational Methods, 2013, 10, 1341001.	0.8	6
50	Kernel-based collocation methods for heat transport on evolving surfaces. Journal of Computational Physics, 2020, 405, 109166.	1.9	6
51	Approximate unconditional test procedure for comparing two ordered multinomials. Computational Statistics and Data Analysis, 2011, 55, 955-963.	0.7	5
52	Regularization for 2-D Fractional Sideways Heat Equations. Numerical Heat Transfer, Part B: Fundamentals, 2015, 68, 418-433.	0.6	5
53	Kernel-Based Meshless Collocation Methods for Solving Coupled Bulk-Surface Partial Differential Equations. Journal of Scientific Computing, 2019, 81, 375-391.	1.1	5
54	Convergence Studies for an Adaptive Meshless Least-Squares Collocation Method. International Journal of Computational Methods and Experimental Measurements, 2017, 5, 377-386.	0.1	4

#	ARTICLE	IF	CITATIONS
55	Discrete least-squares radial basis functions approximations. Applied Mathematics and Computation, 2019, 355, 542-552.	1.4	3
56	Collocation Methods for Cauchy Problems of Elliptic Operators via Conditional Stabilities. Communications in Computational Physics, 2019, 26, 785-808.	0.7	3
57	Advanced Mesh-Based and Particle-Based Numerical Methods for Engineering and Applied Mathematics Problems. Mathematical Problems in Engineering, 2017, 2017, 1-2.	0.6	2
58	On variable and random shape Gaussian interpolations. Applied Mathematics and Computation, 2020, 377, 125159.	1.4	2
59	Dimension-splitting data points redistribution for meshless approximation. Journal of Computational and Applied Mathematics, 2010, 235, 736-746.	1.1	1
60	Solving moving-boundary problems with the wavelet adaptive radial basis functions method. Computers and Fluids, 2013, 86, 37-44.	1.3	1
61	On meshfree numerical differentiation. Analysis and Applications, 2018, 16, 717-739.	1.2	1
62	Fully adaptive kernel-based methods. International Journal for Numerical Methods in Engineering, 2018, 114, 454-467.	1.5	1
63	Weighted least-squares collocation methods for elliptic PDEs with mixed boundary conditions. Engineering Analysis With Boundary Elements, 2019, 105, 146-154.	2.0	1
64	MESHLESS COLLOCATION METHODS FOR SOLVING PDES ON SURFACES. , 2019, , .		1
65	Numerical methods for backward Markov chain driven Black-Scholes option pricing. Frontiers of Mathematics in China, 2011, 6, 17-33.	0.4	0
66	International Conference on Inverse Problems 2010. Journal of Physics: Conference Series, 2011, 290, 011001.	0.3	0
67	Evaluation Finite Moment Log-Stable Option Pricing by a Spectral Method. Numerical Mathematics, 2018, 11, 437-452.	0.6	0
68	Solving Partial Differential Equations on Surfaces with Fundamental Solutions. SEMA SIMAI Springer Series, 2020, , 1-11.	0.4	0
69	Meshfree seismic modeling using radial basis finite-difference with adaptive stencil size. , 2020, , .		0
70	KERNEL-BASED METHODS FOR SOLVING SURFACE PARTIAL DIFFERENTIAL EQUATIONS. WIT Transactions on Engineering Sciences, 2022, , .	0.0	0