

Nam Mai-Duy

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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.

78
papers

1,301
citations

20
h-index

34
g-index

88
ext. papers

1,444
ext. citations

2.9
avg, IF

4.76
L-index

#	Paper	IF	Citations
78	Numerical solution of differential equations using multiquadric radial basis functions networks. <i>Neural Networks</i> , 2001 , 14, 185-99	9.1	211
77	Approximation of function and its derivatives using radial basis function networks. <i>Applied Mathematical Modelling</i> , 2003 , 27, 197-220	4.5	150
76	Numerical solution of Navier-Stokes equations using multiquadric radial basis function networks. <i>International Journal for Numerical Methods in Fluids</i> , 2001 , 37, 65-86	1.9	60
75	Solving high order ordinary differential equations with radial basis function networks. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 62, 824-852	2.4	56
74	Buckling and vibration analysis of laminated composite plate/shell structures via a smoothed quadrilateral flat shell element with in-plane rotations. <i>Computers and Structures</i> , 2011 , 89, 612-625	4.5	55
73	Free vibration analysis of laminated composite plates based on FSDT using one-dimensional IRBFN method. <i>Computers and Structures</i> , 2011 , 89, 1-13	4.5	53
72	A spectral collocation method based on integrated Chebyshev polynomials for two-dimensional biharmonic boundary-value problems. <i>Journal of Computational and Applied Mathematics</i> , 2007 , 201, 30-47	2.4	45
71	Free vibration analysis of laminated plate/shell structures based on FSDT with a stabilized nodal-integrated quadrilateral element. <i>Journal of Sound and Vibration</i> , 2008 , 313, 205-223	3.9	45
70	Mesh-free radial basis function network methods with domain decomposition for approximation of functions and numerical solution of Poisson's equations. <i>Engineering Analysis With Boundary Elements</i> , 2002 , 26, 133-156	2.6	39
69	A collocation method based on one-dimensional RBF interpolation scheme for solving PDEs. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2007 , 17, 165-186	4.5	32
68	Numerical investigations on the compressibility of a DPD fluid. <i>Journal of Computational Physics</i> , 2013 , 242, 196-210	4.1	30
67	An effective spectral collocation method for the direct solution of high-order ODEs. <i>Communications in Numerical Methods in Engineering</i> , 2005 , 22, 627-642		29
66	An integrated-RBF technique based on Galerkin formulation for elliptic differential equations. <i>Engineering Analysis With Boundary Elements</i> , 2009 , 33, 191-199	2.6	25
65	An efficient indirect RBFN-based method for numerical solution of PDEs. <i>Numerical Methods for Partial Differential Equations</i> , 2005 , 21, 770-790	2.5	24
64	Dissipative particle dynamics modeling of low Reynolds number incompressible flows. <i>Journal of Rheology</i> , 2013 , 57, 585-604	4.1	23
63	Compact local integrated-RBF approximations for second-order elliptic differential problems. <i>Journal of Computational Physics</i> , 2011 , 230, 4772-4794	4.1	23
62	Solving biharmonic problems with scattered-point discretization using indirect radial-basis-function networks. <i>Engineering Analysis With Boundary Elements</i> , 2006 , 30, 77-87	2.6	23

61	A spring model for suspended particles in dissipative particle dynamics. <i>Journal of Rheology</i> , 2014 , 58, 839-867	4.1	20
60	A compact five-point stencil based on integrated RBFs for 2D second-order differential problems. <i>Journal of Computational Physics</i> , 2013 , 235, 302-321	4.1	20
59	A Cartesian-grid collocation method based on radial-basis-function networks for solving PDEs in irregular domains. <i>Numerical Methods for Partial Differential Equations</i> , 2007 , 23, 1192-1210	2.5	20
58	Solving high-order partial differential equations with indirect radial basis function networks. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 63, 1636-1654	2.4	20
57	Understanding Viscoelasticity. <i>Graduate Texts in Physics</i> , 2017 ,	0.3	19
56	Investigation of particles size effects in Dissipative Particle Dynamics (DPD) modelling of colloidal suspensions. <i>Computer Physics Communications</i> , 2015 , 189, 37-46	4.2	16
55	A spectral collocation technique based on integrated Chebyshev polynomials for biharmonic problems in irregular domains. <i>Applied Mathematical Modelling</i> , 2009 , 33, 284-299	4.5	16
54	An Effective Integrated-RBFN Cartesian-Grid Discretization for the Stream Function-Vorticity-Temperature Formulation in Nonrectangular Domains. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2009 , 55, 480-502	1.3	14
53	A multidomain integrated-radial-basis-function collocation method for elliptic problems. <i>Numerical Methods for Partial Differential Equations</i> , 2008 , 24, 1301-1320	2.5	14
52	Computing non-Newtonian fluid flow with radial basis function networks. <i>International Journal for Numerical Methods in Fluids</i> , 2005 , 48, 1309-1336	1.9	13
51	A dissipative particle dynamics model for thixotropic materials exhibiting pseudo-yield stress behaviour. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017 , 241, 1-13	2.7	12
50	An effective high order interpolation scheme in BIEM for biharmonic boundary value problems. <i>Engineering Analysis With Boundary Elements</i> , 2005 , 29, 210-223	2.6	11
49	A fast convergent iterative boundary element method on PVM cluster. <i>Engineering Analysis With Boundary Elements</i> , 1998 , 22, 307-316	2.6	10
48	An improved dissipative particle dynamics scheme. <i>Applied Mathematical Modelling</i> , 2017 , 46, 602-617	4.5	8
47	Higher-order approximation of contaminant transport equation for turbulent channel flows based on centre manifolds and its numerical solution. <i>Journal of Hydrology</i> , 2015 , 525, 87-101	6	8
46	Imposition of physical parameters in dissipative particle dynamics. <i>Computer Physics Communications</i> , 2017 , 221, 290-298	4.2	8
45	A Cartesian grid technique based on one-dimensional integrated radial basis function networks for natural convection in concentric annuli. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 57, 1709-1730	1.9	8
44	A note on dissipative particle dynamics (DPD) modelling of simple fluids. <i>Computers and Fluids</i> , 2018 , 176, 97-108	2.8	8

43	Local moving least square-one-dimensional integrated radial basis function networks technique for incompressible viscous flows. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 70, 1443-1474	1.9	7
42	Integrated radial-basis-function networks for computing Newtonian and non-Newtonian fluid flows. <i>Computers and Structures</i> , 2009 , 87, 642-650	4.5	7
41	An efficient domain-decomposition pseudo-spectral method for solving elliptic differential equations. <i>Communications in Numerical Methods in Engineering</i> , 2007 , 24, 795-806		7
40	Compact approximation stencils based on integrated flat radial basis functions. <i>Engineering Analysis With Boundary Elements</i> , 2017 , 74, 79-87	2.6	6
39	Incompressible smoothed particle hydrodynamics-moving IRBFN method for viscous flow problems. <i>Engineering Analysis With Boundary Elements</i> , 2015 , 59, 172-186	2.6	6
38	Exponential-time differencing schemes for low-mass DPD systems. <i>Computer Physics Communications</i> , 2014 , 185, 229-235	4.2	6
37	A numerical study of strongly overdamped Dissipative Particle Dynamics (DPD) systems. <i>Journal of Computational Physics</i> , 2013 , 245, 150-159	4.1	6
36	A compact 9 point stencil based on integrated RBFs for the convection-diffusion equation. <i>Applied Mathematical Modelling</i> , 2014 , 38, 1495-1510	4.5	6
35	A numerical scheme based on compact integrated-RBFs and Adams-Bashforth/Crank-Nicolson algorithms for diffusion and unsteady fluid flow problems. <i>Engineering Analysis With Boundary Elements</i> , 2013 , 37, 1653-1667	2.6	6
34	A second-order continuity domain decomposition technique based on integrated Chebyshev polynomials for two-dimensional elliptic problems. <i>Applied Mathematical Modelling</i> , 2008 , 32, 2851-2862	4.5	6
33	A domain-type boundary-integral-equation method for two-dimensional biharmonic Dirichlet problem. <i>Engineering Analysis With Boundary Elements</i> , 2006 , 30, 809-817	2.6	6
32	A symmetric integrated radial basis function method for solving differential equations. <i>Numerical Methods for Partial Differential Equations</i> , 2018 , 34, 959-981	2.5	5
31	Numerical study of stream-function formulation governing flows in multiply-connected domains by integrated RBFs and Cartesian grids. <i>Computers and Fluids</i> , 2011 , 44, 32-42	2.8	5
30	A Galerkin approach incorporating integrated radial basis function networks for the solution of 2D biharmonic equations. <i>International Journal of Computer Mathematics</i> , 2009 , 86, 1746-1759	1.2	5
29	Modelling dispersion in laminar and turbulent flows in an open channel based on centre manifolds using 1D-IRBFN method. <i>Applied Mathematical Modelling</i> , 2014 , 38, 3672-3691	4.5	4
28	RBF interpolation of boundary values in the BEM for heat transfer problems. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2003 , 13, 611-632	4.5	4
27	A control volume scheme using compact integrated radial basis function stencils for solving the Richards equation. <i>Journal of Hydrology</i> , 2020 , 580, 124240	6	4
26	A time discretization scheme based on integrated radial basis functions for heat transfer and fluid flow problems. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018 , 74, 498-518	1.3	4

25	Coarse-graining, compressibility, and thermal fluctuation scaling in dissipative particle dynamics employed with pre-determined input parameters. <i>Physics of Fluids</i> , 2020 , 32, 053313	4.4	3
24	A numerical study of 2D integrated RBFNs incorporating Cartesian grids for solving 2D elliptic differential problems. <i>Numerical Methods for Partial Differential Equations</i> , 2010 , 26, 1443-1462	2.5	3
23	A generalised finite difference scheme based on compact integrated radial basis function for flow in heterogeneous soils. <i>International Journal for Numerical Methods in Fluids</i> , 2017 , 85, 404-429	1.9	2
22	ADI method based on C2-continuous two-node integrated-RBF elements for viscous flows. <i>Applied Mathematical Modelling</i> , 2013 , 37, 5184-5203	4.5	2
21	A high-order upwind control-volume method based on integrated RBFs for fluid-flow problems. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 67, 1973-1992	1.9	2
20	Simulation of viscous and viscoelastic flows using a RBF-Galerkin approach. <i>Australian Journal of Mechanical Engineering</i> , 2012 , 9, 101-112	1	2
19	Dynamic simulation of non-spherical particulate suspensions. <i>Rheologica Acta</i> , 2010 , 49, 597-606	2.3	2
18	An integral-collocation-based fictitious-domain technique for solving elliptic problems. <i>Communications in Numerical Methods in Engineering</i> , 2007 , 24, 1291-1314		2
17	BEM-RBF approach for viscoelastic flow analysis. <i>Engineering Analysis With Boundary Elements</i> , 2002 , 26, 757-762	2.6	2
16	Neural networks for BEM analysis of steady viscous flows. <i>International Journal for Numerical Methods in Fluids</i> , 2003 , 41, 743-763	1.9	2
15	A microstructure model for viscoelastic nematic fluids. <i>Physics of Fluids</i> , 2020 , 32, 123106	4.4	2
14	A numerical study of compact approximations based on flat integrated radial basis functions for second-order differential equations. <i>Computers and Mathematics With Applications</i> , 2016 , 72, 2364-2387 ^{2.7}	2.7	2
13	A Fully Coupled Scheme for Viscous Flows in Regular and Irregular Domains Using Compact Integrated RBF Approximation. <i>Applied Mechanics and Materials</i> , 2014 , 553, 138-143	0.3	1
12	A Cartesian-grid integrated-RBF method for viscoelastic flows. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012210	0.4	1
11	An effective RBFN-boundary integral approach for the analysis of natural convection flow. <i>International Journal for Numerical Methods in Fluids</i> , 2004 , 46, 545-568	1.9	1
10	New approximations for one-dimensional 3-point and two-dimensional 5-point compact integrated RBF stencils. <i>Engineering Analysis With Boundary Elements</i> , 2021 , 125, 12-22	2.6	1
9	High-order fluid solver based on a combined compact integrated RBF approximation and its fluid structure interaction applications. <i>Computers and Fluids</i> , 2016 , 131, 151-168	2.8	1
8	Strongly overdamped Dissipative Particle Dynamics for fluid-solid systems. <i>Applied Mathematical Modelling</i> , 2016 , 40, 6359-6375	4.5	1

7	Investigation of particulate suspensions in generalised hydrodynamic dissipative particle dynamics using a spring model. <i>Applied Mathematical Modelling</i> , 2020 , 77, 652-662	4.5	1
6	Computing high-order derivatives in compact integrated-RBF stencils. <i>Engineering Analysis With Boundary Elements</i> , 2022 , 135, 369-381	2.6	0
5	A stable and accurate control-volume technique based on integrated radial basis function networks for fluid-flow problems. <i>Australian Journal of Mechanical Engineering</i> , 2011 , 8, 151-158	1	
4	An upwind control-volume method based on integrated RBFs for fluid-flow problems. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012023	0.4	
3	Integrated-RBF network method for free vibration analysis of laminated composite plates. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012236	0.4	
2	A new integrated-rbf-based domain-embedding scheme for solving fluid-flow problems. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012021	0.4	
1	A Meshless Technique Based on Integrated Radial Basis Function Networks for Elliptic Partial Differential Equations. <i>Lecture Notes in Computational Science and Engineering</i> , 2008 , 141-155	0.3	