

# Davoud Mirzaei

## List of Publications by Year in descending order

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33  
papers

1,508  
citations

331670

21  
h-index

414414

32  
g-index

33  
all docs

33  
docs citations

33  
times ranked

560  
citing authors

#	ARTICLE	IF	CITATIONS
1	On generalized moving least squares and diffuse derivatives. IMA Journal of Numerical Analysis, 2012, 32, 983-1000.	2.9	165
2	A meshless based method for solution of integral equations. Applied Numerical Mathematics, 2010, 60, 245-262.	2.1	125
3	Meshless Local Petrov-Galerkin (MLPG) method for the unsteady magnetohydrodynamic (MHD) flow through pipe with arbitrary wall conductivity. Applied Numerical Mathematics, 2009, 59, 1043-1058.	2.1	122
4	The meshless local Petrov-Galerkin (MLPG) method for the generalized two-dimensional non-linear Schrödinger equation. Engineering Analysis With Boundary Elements, 2008, 32, 747-756.	3.7	101
5	Direct Meshless Local Petrov-Galerkin (DMLPG) method: A generalized MLS approximation. Applied Numerical Mathematics, 2013, 68, 73-82.	2.1	84
6	The boundary elements method for magneto-hydrodynamic (MHD) channel flows at high Hartmann numbers. Applied Mathematical Modelling, 2013, 37, 2337-2351.	4.2	83
7	Meshless local Petrov-Galerkin (MLPG) approximation to the two dimensional sine-Gordon equation. Journal of Computational and Applied Mathematics, 2010, 233, 2737-2754.	2.0	81
8	The dual reciprocity boundary element method (DRBEM) for two-dimensional sine-Gordon equation. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 476-486.	6.6	79
9	Meshless local boundary integral equation (LBIE) method for the unsteady magnetohydrodynamic (MHD) flow in rectangular and circular pipes. Computer Physics Communications, 2009, 180, 1458-1466.	7.5	78
10	Numerical solution to the unsteady two-dimensional Schrödinger equation using meshless local boundary integral equation method. International Journal for Numerical Methods in Engineering, 2008, 76, 501-520.	2.8	74
11	Analysis of moving least squares approximation revisited. Journal of Computational and Applied Mathematics, 2015, 282, 237-250.	2.0	70
12	The boundary integral equation approach for numerical solution of the one-dimensional Sine-Gordon equation. Numerical Methods for Partial Differential Equations, 2008, 24, 1405-1415.	3.6	51
13	Solving heat conduction problems by the Direct Meshless Local Petrov-Galerkin (DMLPG) method. Numerical Algorithms, 2014, 65, 275-291.	1.9	49
14	Boundary element solution of the two-dimensional sine-Gordon equation using continuous linear elements. Engineering Analysis With Boundary Elements, 2009, 33, 12-24.	3.7	41
15	A numerical method based on the boundary integral equation and dual reciprocity methods for one-dimensional Cahn-Hilliard equation. Engineering Analysis With Boundary Elements, 2009, 33, 522-528.	3.7	36
16	New implementation of MLBIE method for heat conduction analysis in functionally graded materials. Engineering Analysis With Boundary Elements, 2012, 36, 511-519.	3.7	30
17	Implementation of meshless LBIE method to the 2D non-linear SC problem. International Journal for Numerical Methods in Engineering, 2009, 79, 1662-1682.	2.8	29
18	Error bounds for GMLS derivatives approximations of Sobolev functions. Journal of Computational and Applied Mathematics, 2016, 294, 93-101.	2.0	24

#	ARTICLE	IF	CITATIONS
19	Numerical Simulation and Error Estimation of the Time-Dependent Allen-Cahn Equation on Surfaces with Radial Basis Functions. <i>Journal of Scientific Computing</i> , 2019, 79, 493-516.	2.3	24
20	A greedy meshless local Petrov-Galerkin method based on radial basis functions. <i>Numerical Methods for Partial Differential Equations</i> , 2016, 32, 847-861.	3.6	23
21	The Direct Radial Basis Function Partition of Unity (D-RBF-PU) Method for Solving PDEs. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, A54-A83.	2.8	22
22	Direct meshless local Petrov-Galerkin method for elastodynamic analysis. <i>Acta Mechanica</i> , 2016, 227, 619-632.	2.1	21
23	MLPG approximation to the p-Laplace problem. <i>Computational Mechanics</i> , 2010, 46, 805-812.	4.0	18
24	A new low-cost meshfree method for two and three dimensional problems in elasticity. <i>Applied Mathematical Modelling</i> , 2015, 39, 7181-7196.	4.2	16
25	DMLPG solution of the fractional advection-diffusion problem. <i>Engineering Analysis With Boundary Elements</i> , 2015, 59, 36-42.	3.7	13
26	Direct approximation on spheres using generalized moving least squares. <i>BIT Numerical Mathematics</i> , 2017, 57, 1041-1063.	2.0	11
27	A fast meshfree technique for the coupled thermoelasticity problem. <i>Acta Mechanica</i> , 2018, 229, 2657-2673.	2.1	11
28	A rational RBF interpolation with conditionally positive definite kernels. <i>Advances in Computational Mathematics</i> , 2021, 47, 1.	1.6	9
29	A weak-form RBF-generated finite difference method. <i>Computers and Mathematics With Applications</i> , 2020, 79, 2624-2643.	2.7	8
30	A Petrov-Galerkin Kernel Approximation on the Sphere. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 274-295.	2.3	7
31	On analysis of kernel collocation methods for spherical PDEs. <i>Applied Numerical Mathematics</i> , 2020, 150, 222-232.	2.1	2
32	Error and stability estimates of a least-squares variational kernel-based method for second order elliptic PDEs. <i>Computers and Mathematics With Applications</i> , 2021, 103, 1-11.	2.7	1
33	A Petrov-Galerkin RBF method for diffusion equation on the unit sphere. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 1682-1698.	3.6	0