Vahid Mohammadi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10611418/publications.pdf

Version: 2024-02-01

15	348	933264 10	1058333 14
papers	citations	h-index	g-index

15	15	15	272
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A numerical scheme based on radial basis function finite difference (RBF-FD) technique for solving the high-dimensional nonlinear SchrÃ¶dinger equations using an explicit time discretization: Rungeâ€“Kutta method. Computer Physics Communications, 2017, 217, 23-34.	3.0	68
2	The method of variably scaled radial kernels for solving two-dimensional magnetohydrodynamic (MHD) equations using two discretizations: The Crankâ€“Nicolson scheme and the method of lines (MOL). Computers and Mathematics With Applications, 2015, 70, 2292-2315.	1.4	57
3	Two numerical meshless techniques based on radial basis functions (RBFs) and the method of generalized moving least squares (GMLS) for simulation of coupled Kleinâ€“Gordonâ€“SchrÃ¶dinger (KGS) equations. Computers and Mathematics With Applications, 2016, 71, 892-921.	1.4	43
4	Simulation of the phase field Cahnâ€“Hilliard and tumor growth models via a numerical scheme: Element-free Galerkin method. Computer Methods in Applied Mechanics and Engineering, 2019, 345, 919-950.	3.4	43
5	A Nonlinear Shear Deformable Nanoplate Model Including Surface Effects for Large Amplitude Vibrations of Rectangular Nanoplates with Various Boundary Conditions. International Journal of Applied Mechanics, 2015, 07, 1550076.	1.3	25
6	Numerical Simulation and Error Estimation of the Time-Dependent Allenâ€“Cahn Equation on Surfaces with Radial Basis Functions. Journal of Scientific Computing, 2019, 79, 493-516.	1.1	24
7	Two-dimensional simulation of the damped Kuramotoâ€“Sivashinsky equation via radial basis function-generated finite difference scheme combined with an exponential time discretization. Engineering Analysis With Boundary Elements, 2019, 107, 168-184.	2.0	23
8	Numerical simulation of a prostate tumor growth model by the RBF-FD scheme and a semi-implicit time discretization. Journal of Computational and Applied Mathematics, 2021, 388, 113314.	1.1	18
9	Numerical investigation on the transport equation in spherical coordinates via generalized moving least squares and moving kriging least squares approximations. Engineering With Computers, 2021, 37, 1231-1249.	3.5	12
10	A divergence-free generalized moving least squares approximation with its application. Applied Numerical Mathematics, 2021, 162, 374-404.	1.2	11
11	Generalized moving least squares approximation for the solution of local and non-local models of cancer cell invasion of tissue under the effect of adhesion in one- and two-dimensional spaces. Computers in Biology and Medicine, 2020, 124, 103803.	3.9	9
12	Error analysis of method of lines (MOL) via generalized interpolating moving least squares (GIMLS) approximation. Journal of Computational and Applied Mathematics, 2017, 321, 540-554.	1.1	6
13	The boundary knot method for the solution of two-dimensional advection reaction-diffusion and Brusselator equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 106-133.	1.6	5
14	An asymptotic analysis and numerical simulation of a prostate tumor growth model via the generalized moving least squares approximation combined with semi-implicit time integration. Applied Mathematical Modelling, 2022, 104, 826-849.	2.2	4
15	Free vibration and postbuckling of laminated composite Timoshenko beams. Science and Engineering of Composite Materials, 2016, 23, 107-121.	0.6	0