

# Abdullah Shah

## List of Publications by Year in descending order

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52  
papers

1,123  
citations

567281

15  
h-index

414414

32  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1525  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of different time discretization schemes for solving the Allen-Cahn equation. International Journal of Nonlinear Sciences and Numerical Simulation, 2022, 23, 603-612.	1.0	1
2	A modified Hager-Zhang conjugate gradient method with optimal choices for solving monotone nonlinear equations. International Journal of Computer Mathematics, 2022, 99, 332-354.	1.8	13
3	Simulation of different flow regimes in a narrow-gap spherical Couette flow. Applied Mathematics and Computation, 2022, 421, 126929.	2.2	1
4	Scaled Three-Term Conjugate Gradient Methods for Solving Monotone Equations with Application. Symmetry, 2022, 14, 936.	2.2	4
5	Fully decoupled pressure projection scheme for the numerical solution of diffuse interface model of two-phase flow. Communications in Nonlinear Science and Numerical Simulation, 2022, 112, 106547.	3.3	13
6	Modified Hager-Zhang conjugate gradient methods via singular value analysis for solving monotone nonlinear equations with convex constraint. International Journal of Computational Methods, 2021, 18, 2050043.	1.3	23
7	A Modified PRP-CG Type Derivative-Free Algorithm with Optimal Choices for Solving Large-Scale Nonlinear Symmetric Equations. Symmetry, 2021, 13, 234.	2.2	6
8	Solving nonlinear monotone operator equations via modified SR1 update. Journal of Applied Mathematics and Computing, 2021, 67, 343-373.	2.5	9
9	A comparison of different numerical schemes in spherical Couette flow simulation. AIP Advances, 2021, 11, 015004.	1.3	1
10	An efficient three-term conjugate gradient-type algorithm for monotone nonlinear equations. RAIRO - Operations Research, 2021, 55, S1113-S1127.	1.8	7
11	Numerical investigation of viscous effects on the nonlinear Burgers equation. Turkish Journal of Mathematics, 2021, 45, 529-539.	0.7	0
12	A derivative-free scaling memoryless Broyden-Fletcher-Goldfarb-Shanno method for solving a system of monotone nonlinear equations. Numerical Linear Algebra With Applications, 2021, 28, e2374.	1.6	14
13	A numerical method for solution of incompressible Navier-Stokes equations in streamfunction-vorticity formulation. Computational and Mathematical Methods, 2021, 3, .	0.8	3
14	An Inexact Optimal Hybrid Conjugate Gradient Method for Solving Symmetric Nonlinear Equations. Symmetry, 2021, 13, 1829.	2.2	6
15	Numerical simulation of the interaction between three equal-sized rising bubbles using the phase-field method. AIP Advances, 2020, 10, .	1.3	4
16	Two optimal Hager-Zhang conjugate gradient methods for solving monotone nonlinear equations. Applied Numerical Mathematics, 2020, 153, 217-233.	2.1	33
17	A New Hybrid Approach for Solving Large-scale Monotone Nonlinear Equations. Journal of Mathematical and Fundamental Sciences, 2020, 52, 17-26.	0.5	6
18	Simulation of the two-dimensional Rayleigh-Taylor instability problem by using diffuse-interface model. AIP Advances, 2019, 9, 085312.	1.3	8

#	ARTICLE	IF	CITATIONS
19	An adaptive time-stepping scheme for the numerical simulation of Cahn-Hilliard equation with variable mobility. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2019, 99, e201800246.	1.6	6
20	An approximate analytical solution of the Allen-Cahn equation using homotopy perturbation method and homotopy analysis method. Heliyon, 2019, 5, e03060.	3.2	18
21	Comparison of operator splitting schemes for the numerical solution of the Allen-Cahn equation. AIP Advances, 2019, 9, .	1.3	7
22	Numerical simulation of multiple steady and unsteady flow modes in a medium-gap spherical Couette flow. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	7
23	Existence regime of symmetric and asymmetric Taylor vortices in wide-gap spherical Couette flow. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	5
24	Efficient numerical scheme for solving the Allen-Cahn equation. Numerical Methods for Partial Differential Equations, 2018, 34, 1820-1833.	3.6	20
25	Simulation of spiral instabilities in wide-gap spherical Couette flow. Fluid Dynamics Research, 2018, 50, 025507.	1.3	15
26	Comparing two approaches of miR-34a target identification, biotinylated-miRNA pulldown vs miRNA overexpression. RNA Biology, 2018, 15, 55-61.	3.1	27
27	Numerical investigation of bubbles coalescence in a shear flow with diffuse-interface model. Heliyon, 2018, 4, e01024.	3.2	6
28	Steady viscous flow inside deep, shallow and skewed cavities by an implicit Navier-Stokes solver. International Journal of Advanced and Applied Sciences, 2018, 5, 170-176.	0.4	0
29	An Artificial Compressibility Method for 3D Phase-Field Model and its Application to Two-Phase Flows. International Journal of Computational Methods, 2017, 14, 1750059.	1.3	6
30	Fourth-order central compact scheme for the numerical solution of incompressible Navier-Stokes equations. International Journal of Computer Mathematics, 2017, 94, 2492-2507.	1.8	2
31	Primate-specific Long Non-coding RNAs and MicroRNAs. Genomics, Proteomics and Bioinformatics, 2017, 15, 187-195.	6.9	62
32	Two-phase flow simulations using Diffuse interface model. , 2017, , .		0
33	A mathematical model of tumor hypoxia targeting in cancer treatment and its numerical simulation. Computers and Mathematics With Applications, 2017, 74, 3250-3259.	2.7	11
34	Induction of miR-3648 Upon ER Stress and Its Regulatory Role in Cell Proliferation. International Journal of Molecular Sciences, 2017, 18, 1375.	4.1	37
35	The DEAD-Box RNA Helicase DDX3 Interacts with m <sup>6</sup> A RNA Demethylase ALKBH5. Stem Cells International, 2017, 2017, 1-11.	2.5	53
36	An efficient time-stepping scheme for numerical simulation of dendritic crystal growth. European Journal of Computational Mechanics, 2016, 25, 475-488.	0.6	16

#	ARTICLE	IF	CITATIONS
37	Long Non-coding RNAs in the Cytoplasm. <i>Genomics, Proteomics and Bioinformatics</i> , 2016, 14, 73-80.	6.9	300
38	A central compact scheme for numerical solution of two-phase incompressible flow using Allen-Cahn phase field model. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 433-441.	1.6	8
39	Hydroxypropylcellulose as a novel green reservoir for the synthesis, stabilization, and storage of silver nanoparticles. <i>International Journal of Nanomedicine</i> , 2015, 10, 2079.	6.7	16
40	The isolation of an RNA aptamer targeting to p53 protein with single amino acid mutation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10002-10007.	7.1	101
41	MHD flow and heat transfer of a viscous fluid over a radially stretching power-law sheet with suction/injection in a porous medium. <i>Journal of Applied Mechanics and Technical Physics</i> , 2015, 56, 231-240.	0.5	9
42	One pot light assisted green synthesis, storage and antimicrobial activity of dextran stabilized silver nanoparticles. <i>Journal of Nanobiotechnology</i> , 2014, 12, 53.	9.1	29
43	Numerical Simulation of Two-Dimensional Dendritic Growth Using Phase-Field Model. <i>World Journal of Mechanics</i> , 2014, 04, 128-136.	0.4	12
44	Numerical simulation of flow past rectangular cylinders with different aspect ratios using the incompressible lattice Boltzmann method. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 1027-1041.	1.5	52
45	Numerical solution of unsteady Navier-Stokes equations on curvilinear meshes. <i>Computers and Mathematics With Applications</i> , 2012, 63, 1548-1556.	2.7	10
46	Computer-Based Simulation of Multiphase Flow. , 2011, , .		0
47	Numerical solution of a phase field model for incompressible two-phase flows based on artificial compressibility. <i>Computers and Fluids</i> , 2011, 42, 54-61.	2.5	21
48	Upwind compact finite difference scheme for time-accurate solution of the incompressible Navier-Stokes equations. <i>Applied Mathematics and Computation</i> , 2010, 215, 3201-3213.	2.2	44
49	Effect of Couple Stresses on Flow of Third Grade Fluid between Two Parallel Plates using Homotopy Perturbation Method. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2009, 10, .	1.0	8
50	Flux-difference splitting-based upwind compact schemes for the incompressible Navier-Stokes equations. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 61, 552-568.	1.6	15
51	Homotopy perturbation analysis of slider bearing with Powell-Eyring fluid. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2009, 60, 1178-1193.	1.4	45
52	Homotopy Analysis of Slider Bearing Lubricated With Powell-Eyring Fluid. <i>Journal of Applied Sciences</i> , 2006, 6, 2358-2367.	0.3	3