

# Shirley Abelman

## List of Publications by Year in descending order

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56  
papers

1,954  
citations

623734

14  
h-index

254184

43  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1224  
citing authors

#	ARTICLE	IF	CITATIONS
1	Entropy generation in steady MHD flow due to a rotating porous disk in a nanofluid. International Journal of Heat and Mass Transfer, 2013, 62, 515-525.	4.8	621
2	Investigation of entropy generation in MHD and slip flow over a rotating porous disk with variable properties. International Journal of Heat and Mass Transfer, 2014, 70, 892-917.	4.8	262
3	Numerical simulation of MHD nanofluid flow and heat transfer considering viscous dissipation. International Journal of Heat and Mass Transfer, 2014, 79, 212-222.	4.8	254
4	Two-Phase Simulation of Nanofluid Flow and Heat Transfer in an Annulus in the Presence of an Axial Magnetic Field. IEEE Nanotechnology Magazine, 2015, 14, 561-569.	2.0	192
5	Numerical analysis of EHD nanofluid force convective heat transfer considering electric field dependent viscosity. International Journal of Heat and Mass Transfer, 2017, 108, 2558-2565.	4.8	139
6	Radiation effects on stagnation point flow with melting heat transfer and second order slip. Results in Physics, 2017, 7, 31-42.	4.1	46
7	Stokes's first problem for Sisko fluid over a porous wall. Applied Mathematics and Computation, 2010, 217, 622-628.	2.2	39
8	Comparison of some recent numerical methods for initial-value problems for stiff ordinary differential equations. Computers and Mathematics With Applications, 2008, 55, 733-744.	2.7	33
9	On the Rayleigh problem for a Sisko fluid in a rotating frame. Applied Mathematics and Computation, 2009, 215, 2515-2520.	2.2	31
10	Steady MHD flow of a third grade fluid in a rotating frame and porous space. Nonlinear Analysis: Real World Applications, 2009, 10, 3322-3328.	1.7	28
11	Couette flow of a third grade fluid with rotating frame and slip condition. Nonlinear Analysis: Real World Applications, 2009, 10, 3329-3334.	1.7	28
12	Stability, Bifurcation and Chaos Analysis of Vector-Borne Disease Model with Application to Rift Valley Fever. PLoS ONE, 2014, 9, e108172.	2.5	21
13	Analytical Modeling of MHD Flow over a Permeable Rotating Disk in the Presence of Soret and Dufour Effects: Entropy Analysis. Entropy, 2016, 18, 131.	2.2	21
14	Predicting Rift Valley Fever Inter-epidemic Activities and Outbreak Patterns: Insights from a Stochastic Host-Vector Model. PLoS Neglected Tropical Diseases, 2016, 10, e0005167.	3.0	20
15	Optimal (Control of) Intervention Strategies for Malaria Epidemic in Karonga District, Malawi. Abstract and Applied Analysis, 2014, 2014, 1-20.	0.7	14
16	A numerical study of the influence of slip boundary condition on rotating flow. International Journal of Computational Fluid Dynamics, 2007, 21, 21-27.	1.2	13
17	A computational algorithm for solving nearly penta-diagonal linear systems. Applied Mathematics and Computation, 2008, 203, 629-634.	2.2	13
18	Double Diffusive Magnetohydrodynamic (MHD) Mixed Convective Slip Flow along a Radiating Moving Vertical Flat Plate with Convective Boundary Condition. PLoS ONE, 2014, 9, e109404.	2.5	13

#	ARTICLE	IF	CITATIONS
19	Uncertainty and sensitivity analysis of a Rift Valley fever model. <i>Applied Mathematics and Computation</i> , 2016, 279, 170-186.	2.2	13
20	Conservation laws for Camassa-Holm equation, Dullin-Gottwald-Holm equation and generalized Dullin-Gottwald-Holm equation. <i>Nonlinear Analysis: Real World Applications</i> , 2009, 10, 3466-3471.	1.7	12
21	MHD Natural Convection with Convective Surface Boundary Condition over a Flat Plate. <i>Abstract and Applied Analysis</i> , 2014, 2014, 1-10.	0.7	12
22	Mathematical analysis of a lymphatic filariasis model with quarantine and treatment. <i>BMC Public Health</i> , 2017, 17, 265.	2.9	12
23	Nanofluid flow and heat transfer in a Brinkman porous channel with variable porosity. <i>Quaestiones Mathematicae</i> , 2018, 41, 449-467.	0.6	12
24	Gas Exchange Models for a Flexible Insect Tracheal System. <i>Acta Biotheoretica</i> , 2016, 64, 161-196.	1.5	10
25	New solutions for surface tension driven spreading of a thin film. <i>International Journal of Non-Linear Mechanics</i> , 2005, 40, 523-529.	2.6	9
26	Optimal control of intervention strategies in malaria-tuberculosis co-infection with relapse. <i>International Journal of Biomathematics</i> , 2018, 11, 1850017.	2.9	9
27	An investigation into the spreading of a thin liquid drop under gravity on a slowly rotating disk. <i>International Journal of Non-Linear Mechanics</i> , 2004, 39, 265-270.	2.6	7
28	Self-Similar Unsteady Flow of a Sisko Fluid in a Cylindrical Tube Undergoing Translation. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-14.	1.1	7
29	APPLICATION OF THE HOMOTOPY ANALYSIS METHOD (HAM) TO THIN FILM FLOW OF A GENERALIZED SECOND-GRADE FLUID ON A VERTICALLY MOVING BELT. <i>Chemical Engineering Communications</i> , 2012, 199, 1298-1319.	2.6	5
30	OPTIMAL CONTROL ANALYSIS OF A HUMAN-BOVINE SCHISTOSOMIASIS MODEL. <i>Journal of Biological Systems</i> , 2021, 29, 1-26.	1.4	5
31	A rational basis for second-kind Abel integral equations. <i>Journal of Computational and Applied Mathematics</i> , 1991, 34, 281-290.	2.0	4
32	Isomorphism and Possible Invariance of Error Cells Under Spherocylindrical Transposition. <i>Optometry and Vision Science</i> , 2007, 84, 443-451.	1.2	4
33	Bounds and intervals around nonzero cylinder powers in symmetric dioptric power space. <i>Journal of Biomedical Optics</i> , 2009, 14, 014025.	2.6	4
34	Paraxial Ocular Measurements and Entries in Spectral and Modal Matrices: Analogy and Application. <i>Computational and Mathematical Methods in Medicine</i> , 2014, 2014, 1-8.	1.3	4
35	Oscillatory Couette flow of rotating Sisko fluid. <i>Applied Mathematics and Mechanics (English)</i> Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.6	4
36	The Role of <i>Hyalomma Truncatum</i> on the Dynamics of Rift Valley Fever: Insights from a Mathematical Epidemic Model. <i>Acta Biotheoretica</i> , 2017, 65, 1-36.	1.5	4

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37	Dynamics of the Oxygen, Carbon Dioxide, and Water Interaction across the Insect Spiracle. Abstract and Applied Analysis, 2014, 2014, 1-11.	0.7	3
38	A Mathematical Model of the Transmission Dynamics of Bovine Schistosomiasis with Contaminated Environment. Acta Biotheoretica, 2022, 70, 9.	1.5	3
39	Mapping of error cells in clinical measure to symmetric power space. Ophthalmic and Physiological Optics, 2007, 27, 490-499.	2.0	2
40	Similarity solutions of thin film flow driven by gravity and surface shear. Nonlinear Analysis: Real World Applications, 2009, 10, 3443-3450.	1.7	2
41	Symmetries and similarity solutions for the axisymmetric spreading under gravity of a thin power-law liquid drop on a horizontal plane. Applied Mathematical Modelling, 2009, 33, 4364-4377.	4.2	2
42	Symmetry Reductions of a Flow with Power Law Fluid and Contaminant-Modified Viscosity. Mathematical and Computational Applications, 2010, 15, 685-696.	1.3	2
43	Profiles of interval bounds around the coordinates of antistigmatic powers. Journal of Modern Optics, 2011, 58, 896-902.	1.3	2
44	Components of Lens Power That Regulate Surface Principal Powers and Relative Meridians Independently. International Journal of Optics, 2016, 2016, 1-5.	1.4	2
45	A Mathematical Model for the Transmission Dynamics of Lymphatic Filariasis with Intervention Strategies. Acta Biotheoretica, 2020, 68, 297-320.	1.5	2
46	A Human-Bovine Schistosomiasis Mathematical Model with Treatment and Mollusciciding. Acta Biotheoretica, 2021, 69, 511-541.	1.5	2
47	STOKES'S FIRST PROBLEM FOR A ROTATING SISO FLUID WITH POROUS SPACE. Journal of Porous Media, 2012, 15, 1079-1091.	1.9	2
48	Conversion of statistics calculated from the coordinates of the power matrix to those of principal meridional representation of power. Ophthalmic and Physiological Optics, 2007, 27, 303-310.	2.0	1
49	Magnetic Field and Endoscope Influences on Peristaltic Transport: An Exact Solution. Mathematical and Computational Applications, 2010, 15, 638-657.	1.3	1
50	Tolerance and Nature of Residual Refraction in Symmetric Power Space as Principal Lens Powers and Meridians Change. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-8.	1.3	1
51	Modification of readings along oblique principal meridians to fit regular corneal surfaces. Journal of Modern Optics, 2015, 62, 1187-1192.	1.3	1
52	Explaining stock return distributions via an agent-based model. Nonlinear Dynamics, 2021, 105, 1063-1096.	5.2	1
53	Approximations of nonlinear phenomena arising in angular deviations of light rays that emerge from prisms. Computers and Mathematics With Applications, 2008, 55, 408-422.	2.7	0
54	Microscale Gaseous Slip Flow in the Insect Trachea and Tracheoles. Acta Biotheoretica, 2017, 65, 211-231.	1.5	0

#	ARTICLE	IF	CITATIONS
55	Measurements and an adjoining corneal zone: Effects on the power matrix of a regular astigmatic cornea. <i>Optik</i> , 2017, 128, 185-190.	2.9	0
56	Characteristics of component matrices chosen for toric lens powers in symmetric dioptric power space. <i>Optik</i> , 2020, 221, 165209.	2.9	0