# Shirley Abelman

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1690522/publications.pdf

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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 | A Mathematical Model of the Transmission Dynamics of Bovine Schistosomiasis with Contaminated Environment. Acta Biotheoretica, 2022, 70, 9. | 1.5 | 3 |
| 2 | A Human-Bovine Schistosomiasis Mathematical Model with Treatment and Molluscicide. Acta Biotheoretica, 2021, 69, 511-541. | 1.5 | 2 |
| 3 | Explaining stock return distributions via an agent-based model. Nonlinear Dynamics, 2021, 105, 1063-1096. | 5.2 | 1 |
| 4 | OPTIMAL CONTROL ANALYSIS OF A HUMANâ€“BOVINE SCHISTOSOMIASIS MODEL. Journal of Biological Systems, 2021, 29, 1-26. | 1.4 | 5 |
| 5 | A Mathematical Model for the Transmission Dynamics of Lymphatic Filariasis with Intervention Strategies. Acta Biotheoretica, 2020, 68, 297-320. | 1.5 | 2 |
| 6 | Characteristics of component matrices chosen for toric lens powers in symmetric dioptric power space. Optik, 2020, 221, 165209. | 2.9 | 0 |
| 7 | Optimal control of intervention strategies in malariaâ€“tuberculosis co-infection with relapse. International Journal of Biomathematics, 2018, 11, 1850017. | 2.9 | 9 |
| 8 | Nanofluid flow and heat transfer in a Brinkman porous channel with variable porosity. Quaestiones Mathematicae, 2018, 41, 449-467. | 0.6 | 12 |
| 9 | Radiation effects on stagnation point flow with melting heat transfer and second order slip. Results in Physics, 2017, 7, 31-42. | 4.1 | 46 |
| 10 | Microscale Gaseous Slip Flow in the Insect Trachea and Tracheoles. Acta Biotheoretica, 2017, 65, 211-231. | 1.5 | 0 |
| 11 | Mathematical analysis of a lymphatic filariasis model with quarantine and treatment. BMC Public Health, 2017, 17, 265. | 2.9 | 12 |
| 12 | 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 |
| 13 | The Role of Hyalomma Truncatum on the Dynamics of Rift Valley Fever: Insights from a Mathematical Epidemic Model. Acta Biotheoretica, 2017, 65, 1-36. | 1.5 | 4 |
| 14 | Measurements and an adjoining corneal zone: Effects on the power matrix of a regular astigmatic cornea. Optik, 2017, 128, 185-190. | 2.9 | 0 |
| 15 | Components of Lens Power That Regulate Surface Principal Powers and Relative Meridians Independently. International Journal of Optics, 2016, 2016, 1-5. | 1.4 | 2 |
| 16 | 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 |
| 17 | Gas Exchange Models for a Flexible Insect Tracheal System. Acta Biotheoretica, 2016, 64, 161-196. | 1.5 | 10 |
| 18 | Uncertainty and sensitivity analysis of a Rift Valley fever model. Applied Mathematics and Computation, 2016, 279, 170-186. | 2.2 | 13 |

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|---|---|---|---|
| 19 | 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 |
| 20 | Self-Similar Unsteady Flow of a Sisko Fluid in a Cylindrical Tube Undergoing Translation. Mathematical Problems in Engineering, 2015, 2015, 1-14. | 1.1 | 7 |
| 21 | Modification of readings along oblique principal meridians to fit regular corneal surfaces. Journal of Modern Optics, 2015, 62, 1187-1192. | 1.3 | 1 |
| 22 | 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 |
| 23 | Stability, Bifurcation and Chaos Analysis of Vector-Borne Disease Model with Application to Rift Valley Fever. PLoS ONE, 2014, 9, e108172. | 2.5 | 21 |
| 24 | 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 |
| 25 | Optimal (Control of) Intervention Strategies for Malaria Epidemic in Karonga District, Malawi. Abstract and Applied Analysis, 2014, 2014, 1-20. | 0.7 | 14 |
| 26 | MHD Natural Convection with Convective Surface Boundary Condition over a Flat Plate. Abstract and Applied Analysis, 2014, 2014, 1-10. | 0.7 | 12 |
| 27 | Dynamics of the Oxygen, Carbon Dioxide, and Water Interaction across the Insect Spiracle. Abstract and Applied Analysis, 2014, 2014, 1-11. | 0.7 | 3 |
| 28 | 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 |
| 29 | Paraxial Ocular Measurements and Entries in Spectral and Modal Matrices: Analogy and Application. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-8. | 1.3 | 4 |
| 30 | 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 |
| 31 | Oscillatory Couette flow of rotating Sisko fluid. Applied Mathematics and Mechanics (English) Tj ETQq1 1 0.784314 rgBT /Overlock 1 | 3.6 | 4 |
| 32 | 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 |
| 33 | 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 |
| 34 | APPLICATION OF THE HOMOTOPY ANALYSIS METHOD (HAM) TO THIN FILM FLOW OF A GENERALIZED SECOND-GRADE FLUID ON A VERTICALLY MOVING BELT. Chemical Engineering Communications, 2012, 199, 1298-1319. | 2.6 | 5 |
| 35 | STOKES'S FIRST PROBLEM FOR A ROTATING SISKO FLUID WITH POROUS SPACE. Journal of Porous Media, 2012, 15, 1079-1091. | 1.9 | 2 |
| 36 | Profiles of interval bounds around the coordinates of antistigmatic powers. Journal of Modern Optics, 2011, 58, 896-902. | 1.3 | 2 |

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|---|---|---|---|
| 37 | Stokesâ€™ first problem for Sisko fluid over a porous wall. Applied Mathematics and Computation, 2010, 217, 622-628. | 2.2 | 39 |
| 38 | Magnetic Field and Endoscope Influences on Peristaltic Transport: An Exact Solution. Mathematical and Computational Applications, 2010, 15, 638-657. | 1.3 | 1 |
| 39 | Symmetry Reductions of a Flow with Power Law Fluid and Contaminant-Modified Viscosity. Mathematical and Computational Applications, 2010, 15, 685-696. | 1.3 | 2 |
| 40 | Bounds and intervals around nonzero cylinder powers in symmetric dioptric power space. Journal of Biomedical Optics, 2009, 14, 014025. | 2.6 | 4 |
| 41 | Conservation laws for Camassaâ€“Holm equation, Dullinâ€“Gottwaldâ€“Holm equation and generalized Dullinâ€“Gottwaldâ€“Holm equation. Nonlinear Analysis: Real World Applications, 2009, 10, 3466-3471. | 1.7 | 12 |
| 42 | 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 |
| 43 | 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 |
| 44 | Similarity solutions of thin film flow driven by gravity and surface shear. Nonlinear Analysis: Real World Applications, 2009, 10, 3443-3450. | 1.7 | 2 |
| 45 | On the Rayleigh problem for a Sisko fluid in a rotating frame. Applied Mathematics and Computation, 2009, 215, 2515-2520. | 2.2 | 31 |
| 46 | 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 |
| 47 | A computational algorithm for solving nearly penta-diagonal linear systems. Applied Mathematics and Computation, 2008, 203, 629-634. | 2.2 | 13 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | Isomorphism and Possible Invariance of Error Cells Under Spherocylindrical Transposition. Optometry and Vision Science, 2007, 84, 443-451. | 1.2 | 4 |
| 52 | 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 |
| 53 | Mapping of error cells in clinical measure to symmetric power space. Ophthalmic and Physiological Optics, 2007, 27, 490-499. | 2.0 | 2 |
| 54 | New solutions for surface tension driven spreading of a thin film. International Journal of Non-Linear Mechanics, 2005, 40, 523-529. | 2.6 | 9 |

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| 55 | An investigation into the spreading of a thin liquid drop under gravity on a slowly rotating disk. International Journal of Non-Linear Mechanics, 2004, 39, 265-270. | 2.6 | 7 |
| 56 | A rational basis for second-kind Abel integral equations. Journal of Computational and Applied Mathematics, 1991, 34, 281-290. | 2.0 | 4 |