

Rashid Jan

List of Publications by Year in descending order

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105
papers

2,876
citations

186265
28
h-index

223800
46
g-index

107
all docs

107
docs citations

107
times ranked

2410
citing authors

#	ARTICLE	IF	CITATIONS
1	Global existence, general decay and blow-up for a nonlinear wave equation with logarithmic source term and fractional boundary dissipation. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2023, 16, 1323-1345.	1.1	1
2	Complex dynamics of an epidemic model with saturated media coverage and recovery. <i>Nonlinear Dynamics</i> , 2022, 107, 2995-3023.	5.2	8
3	Magnetohydrodynamic Thin Film Flow through a Porous Stretching Sheet with the Impact of Thermal Radiation and Viscous Dissipation. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-10.	1.1	13
4	Modeling and Analysis of Breast Cancer with Adverse Reactions of Chemotherapy Treatment through Fractional Derivative. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-19.	1.3	17
5	A Parametric Analysis of the Effect of Hybrid Nanoparticles on the Flow Field and Homogeneous-Heterogeneous Reaction between Squeezing Plates. <i>Advances in Mathematical Physics</i> , 2022, 2022, 1-22.	0.8	8
6	Analysis of Hybrid Nanofluid Stagnation Point Flow over a Stretching Surface with Melting Heat Transfer. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-12.	1.1	31
7	Dynamical analysis of the transmission of dengue fever via Caputo-Fabrizio fractional derivative. <i>Chaos, Solitons and Fractals: X</i> , 2022, 8, 100072.	2.1	22
8	Analysis and dynamical behavior of a novel dengue model via fractional calculus. <i>International Journal of Biomathematics</i> , 2022, 15, .	2.9	22
9	Modeling the dynamics of tumor-immune cells interactions via fractional calculus. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	28
10	Analysis of fractional-order dynamics of dengue infection with non-linear incidence functions. <i>Transactions of the Institute of Measurement and Control</i> , 2022, 44, 2630-2641.	1.7	25
11	Lessons drawn from China and South Korea for managing COVID-19 epidemic: Insights from a comparative modeling study. <i>ISA Transactions</i> , 2022, 124, 164-175.	5.7	24
12	Numerical Solution of Schrödinger Equation by Crank-Nicolson Method. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-11.	1.1	3
13	Dynamical Behaviour and Chaotic Phenomena of HIV Infection through Fractional Calculus. <i>Discrete Dynamics in Nature and Society</i> , 2022, 2022, 1-19.	0.9	9
14	Chaotic Phenomena and Oscillations in Dynamical Behaviour of Financial System via Fractional Calculus. <i>Complexity</i> , 2022, 2022, 1-14.	1.6	16
15	Analytic Simulation for Magnetohydrodynamic Unsteady Buongiorno Model Hybrid Nanofluid Flow over Stretching. <i>Advances in Mathematical Physics</i> , 2022, 2022, 1-16.	0.8	2
16	Monotonicity Results for Nabla Riemann-Liouville Fractional Differences. <i>Mathematics</i> , 2022, 10, 2433.	2.2	2
17	Fractional order mathematical model of monkeypox transmission dynamics. <i>Physica Scripta</i> , 2022, 97, 084005.	2.5	61
18	Modeling and analyzing the effects of fixed-time intervention on transmission dynamics of echinococcosis in Qinghai province. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 4276-4296.	2.3	4

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19	Quantifying competitive advantages of mutant strains in a population involving importation and mass vaccination rollout. <i>Infectious Disease Modelling</i> , 2021, 6, 988-996.	1.9	21
20	Measles dynamics on network models with optimal control strategies. <i>Advances in Difference Equations</i> , 2021, 2021, 138.	3.5	3
21	Effects of medical resource capacities and intensities of public mitigation measures on outcomes of COVID-19 outbreaks. <i>BMC Public Health</i> , 2021, 21, 605.	2.9	19
22	Effects of New York's Executive Order on Face Mask Use on COVID-19 Infections and Mortality: A Modeling Study. <i>Journal of Urban Health</i> , 2021, 98, 197-204.	3.6	15
23	Fractional Dynamics of HIV with Source Term for the Supply of New CD4+ T-Cells Depending on the Viral Load via Caputo's Fabrizio Derivative. <i>Molecules</i> , 2021, 26, 1806.	3.8	34
24	Projected COVID-19 epidemic in the United States in the context of the effectiveness of a potential vaccine and implications for social distancing and face mask use. <i>Vaccine</i> , 2021, 39, 2295-2302.	3.8	72
25	Modeling of measles epidemic with optimized fractional order under Caputo differential operator. <i>Chaos, Solitons and Fractals</i> , 2021, 145, 110766.	5.1	62
26	Mass testing: An underexplored strategy for COVID-19 control. <i>Innovation(China)</i> , 2021, 2, 100114.	9.1	16
27	Fractional-calculus analysis of the transmission dynamics of the dengue infection. <i>Chaos</i> , 2021, 31, 053130.	2.5	36
28	Bioconvection Due to Gyrotactic Microorganisms in Couple Stress Hybrid Nanofluid Laminar Mixed Convection Incompressible Flow with Magnetic Nanoparticles and Chemical Reaction as Carrier for Targeted Drug Delivery through Porous Stretching Sheet. <i>Molecules</i> , 2021, 26, 3954.	3.8	21
29	Investigating the Relationship between Reopening the Economy and Implementing Control Measures during the COVID-19 Pandemic. <i>Public Health</i> , 2021, 200, 15-21.	2.9	10
30	Dynamical behaviour of HIV Infection with the influence of variable source term through Galerkin method. <i>Chaos, Solitons and Fractals</i> , 2021, 152, 111429.	5.1	11
31	Optimal control and cost-effectiveness analysis for dengue fever model with asymptomatic and partial immune individuals. <i>Results in Physics</i> , 2021, 31, 104919.	4.1	33
32	Unsteady Electrohydrodynamic Stagnation Point Flow of Hybrid Nanofluid Past a Convective Heated Stretch/Shrink Sheet. <i>Advances in Mathematical Physics</i> , 2021, 2021, 1-9.	0.8	2
33	Determining travel fluxes in epidemic areas. <i>PLoS Computational Biology</i> , 2021, 17, e1009473.	3.2	1
34	Estimation of the reproduction number and identification of periodicity for HFMD infections in northwest China. <i>Journal of Theoretical Biology</i> , 2020, 484, 110027.	1.7	8
35	Dynamics of a non-smooth epidemic model with three thresholds. <i>Theory in Biosciences</i> , 2020, 139, 47-65.	1.4	2
36	A General Framework for Dimensionality Reduction of K-Means Clustering. <i>Journal of Classification</i> , 2020, 37, 616-631.	2.2	8

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37	Asymptomatic carriers in transmission dynamics of dengue with control interventions. <i>Optimal Control Applications and Methods</i> , 2020, 41, 430-447.	2.1	49
38	When to lift the lockdown in Hubei province during COVID-19 epidemic? An insight from a patch model and multiple source data. <i>Journal of Theoretical Biology</i> , 2020, 507, 110469.	1.7	15
39	Impact of Hospital Bed Shortages on the Containment of COVID-19 in Wuhan. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8560.	2.6	30
40	Modeling the Epidemic Trend of the 2019 Novel Coronavirus Outbreak in China. <i>Innovation(China)</i> , 2020, 1, 100048.	9.1	92
41	Modeling the impact of mass influenza vaccination and public health interventions on COVID-19 epidemics with limited detection capability. <i>Mathematical Biosciences</i> , 2020, 325, 108378.	1.9	109
42	Coupling the Macroscale to the Microscale in a Spatiotemporal Context to Examine Effects of Spatial Diffusion on Disease Transmission. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 58.	1.9	7
43	Modelling the Periodic Outbreak of Measles in Mainland China. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-13.	1.1	3
44	Assessing the effects of metropolitan-wide quarantine on the spread of COVID-19 in public space and households. <i>International Journal of Infectious Diseases</i> , 2020, 96, 503-505.	3.3	82
45	Declining trend in HIV new infections in Guangxi, China: insights from linking reported HIV/AIDS cases with CD4-at-diagnosis data. <i>BMC Public Health</i> , 2020, 20, 919.	2.9	12
46	Linking key intervention timing to rapid decline of the COVID-19 effective reproductive number to quantify lessons from mainland China. <i>International Journal of Infectious Diseases</i> , 2020, 97, 296-298.	3.3	22
47	Modelling the impact of antibody-dependent enhancement on disease severity of Zika virus and dengue virus sequential and co-infection. <i>Royal Society Open Science</i> , 2020, 7, 191749.	2.4	20
48	Modeling methods for estimating HIV incidence: a mathematical review. <i>Theoretical Biology and Medical Modelling</i> , 2020, 17, 1.	2.1	13
49	The effectiveness of quarantine and isolation determine the trend of the COVID-19 epidemics in the final phase of the current outbreak in China. <i>International Journal of Infectious Diseases</i> , 2020, 95, 288-293.	3.3	212
50	A new model of dengue fever in terms of fractional derivative. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 5267-5287.	1.9	24
51	Analysis of a multiscale HIV-1 model coupling within-host viral dynamics and between-host transmission dynamics. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 6720-6736.	1.9	9
52	Differences in how interventions coupled with effective reproduction numbers account for marked variations in COVID-19 epidemic outcomes. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 5085-5098.	1.9	0
53	A general model of hormesis in biological systems and its application to pest management. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190468.	3.4	29
54	Modeling the transmission of dengue infection through fractional derivatives. <i>Chaos, Solitons and Fractals</i> , 2019, 127, 189-216.	5.1	56

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55	Dynamical Behavior and Bifurcation Analysis of the SIR Model with Continuous Treatment and State-Dependent Impulsive Control. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950131.	1.7	10
56	Effect of partial immunity on transmission dynamics of dengue disease with optimal control. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 1967-1983.	2.3	42
57	Multiple Equilibria in a Non-smooth Epidemic Model with Medical-Resource Constraints. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 963-994.	1.9	14
58	Conflict and accord of optimal treatment strategies for HIV infection within and between hosts. <i>Mathematical Biosciences</i> , 2019, 309, 107-117.	1.9	17
59	A combination of climatic conditions determines major within-season dengue outbreaks in Guangdong Province, China. <i>Parasites and Vectors</i> , 2019, 12, 45.	2.5	18
60	Using non-smooth models to determine thresholds for microbial pest management. <i>Journal of Mathematical Biology</i> , 2019, 78, 1389-1424.	1.9	13
61	Identifying Risk Factors Of A(H7N9) Outbreak by Wavelet Analysis and Generalized Estimating Equation. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1311.	2.6	2
62	Optimal media reporting intensity on mitigating spread of an emerging infectious disease. <i>PLoS ONE</i> , 2019, 14, e0213898.	2.5	23
63	Analysis of an Epidemic System with Two Response Delays in Media Impact Function. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 1582-1612.	1.9	22
64	A two-thresholds policy to interrupt transmission of West Nile Virus to birds. <i>Journal of Theoretical Biology</i> , 2019, 463, 22-46.	1.7	14
65	Air quality index induced nonsmooth system for respiratory infection. <i>Journal of Theoretical Biology</i> , 2019, 460, 160-169.	1.7	8
66	Frequent implementation of interventions may increase HIV infections among MSM in China. <i>Scientific Reports</i> , 2018, 8, 451.	3.3	6
67	Measuring the impact of air pollution on respiratory infection risk in China. <i>Environmental Pollution</i> , 2018, 232, 477-486.	7.5	59
68	Global hopf bifurcation of a delayed equation describing the lag effect of media impact on the spread of infectious disease. <i>Journal of Mathematical Biology</i> , 2018, 76, 1249-1267.	1.9	32
69	Global Dynamics of a Virus-Immune System with Virus-Guided Therapy and Saturation Growth of Virus. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-18.	1.1	6
70	Stochastic Modelling of Air Pollution Impacts on Respiratory Infection Risk. <i>Bulletin of Mathematical Biology</i> , 2018, 80, 3127-3153.	1.9	25
71	A conceptual model for optimizing vaccine coverage to reduce vector-borne infections in the presence of antibody-dependent enhancement. <i>Theoretical Biology and Medical Modelling</i> , 2018, 15, 13.	2.1	8
72	Multiscale System for Environmentally-Driven Infectious Disease with Threshold Control Strategy. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018, 28, 1850064.	1.7	6

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73	The cost-effectiveness of oral HIV pre-exposure prophylaxis and early antiretroviral therapy in the presence of drug resistance among men who have sex with men in San Francisco. <i>BMC Medicine</i> , 2018, 16, 58.	5.5	25
74	A Predator–Prey Model with Prey Population Guided Anti-Predator Behavior. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017, 27, 1750099.	1.7	20
75	Personalized life expectancy and treatment benefit index of antiretroviral therapy. <i>Theoretical Biology and Medical Modelling</i> , 2017, 14, 1.	2.1	7
76	Early antiretroviral therapy and potent second-line drugs could decrease HIV incidence of drug resistance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170525.	2.6	10
77	A Feedback Control Model of Comprehensive Therapy for Treating Immunogenic Tumours. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650039.	1.7	27
78	Modelling weekly vector control against Dengue in the Guangdong Province of China. <i>Journal of Theoretical Biology</i> , 2016, 410, 65-76.	1.7	35
79	A piecewise model of virus-immune system with two thresholds. <i>Mathematical Biosciences</i> , 2016, 278, 63-76.	1.9	7
80	Implication of vaccination against dengue for Zika outbreak. <i>Scientific Reports</i> , 2016, 6, 35623.	3.3	36
81	Global Stability of a Multi-group SVEIR Epidemiological Model with the Vaccination Age and Infection Age. <i>Acta Applicandae Mathematicae</i> , 2016, 144, 137-157.	1.0	16
82	Modelling the effects of contaminated environments on HFMD infections in mainland China. <i>BioSystems</i> , 2016, 140, 1-7.	2.0	34
83	Early HAART Initiation May Not Reduce Actual Reproduction Number and Prevalence of MSM Infection: Perspectives from Coupled within- and between-Host Modelling Studies of Chinese MSM Populations. <i>PLoS ONE</i> , 2016, 11, e0150513.	2.5	9
84	Modeling the effect of comprehensive interventions on Ebola virus transmission. <i>Scientific Reports</i> , 2015, 5, 15818.	3.3	32
85	Global Dynamics and Applications of an Epidemiological Model for Hepatitis C Virus Transmission in China. <i>Discrete Dynamics in Nature and Society</i> , 2015, 2015, 1-13.	0.9	9
86	Model Selection and Evaluation Based on Emerging Infectious Disease Data Sets including A/H1N1 and Ebola. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-14.	1.3	21
87	Media impact switching surface during an infectious disease outbreak. <i>Scientific Reports</i> , 2015, 5, 7838.	3.3	138
88	Holling II predator–prey impulsive semi-dynamic model with complex Poincaré map. <i>Nonlinear Dynamics</i> , 2015, 81, 1575-1596.	5.2	78
89	Global stability of an infection-age structured HIV-1 model linking within-host and between-host dynamics. <i>Mathematical Biosciences</i> , 2015, 263, 37-50.	1.9	55
90	A data-driven mathematical model of multi-drug resistant <i>Acinetobacter baumannii</i> transmission in an intensive care unit. <i>Scientific Reports</i> , 2015, 5, 9478.	3.3	12

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91	Modeling Saturated Diagnosis and Vaccination in Reducing HIV/AIDS Infection. Abstract and Applied Analysis, 2014, 2014, 1-12.	0.7	1
92	A Filippov system describing media effects on the spread of infectious diseases. Nonlinear Analysis: Hybrid Systems, 2014, 11, 84-97.	3.5	83
93	Modeling sexual transmission of HIV/AIDS in Jiangsu province, China. Mathematical Methods in the Applied Sciences, 2013, 36, 234-248.	2.3	11
94	Predicting the HIV/AIDS epidemic and measuring the effect of mobility in mainland China. Journal of Theoretical Biology, 2013, 317, 271-285.	1.7	46
95	Modeling antiretroviral drug responses for HIV-1 infected patients using differential equation models. Advanced Drug Delivery Reviews, 2013, 65, 940-953.	13.7	45
96	SLIDING BIFURCATION AND GLOBAL DYNAMICS OF A FILIPPOV EPIDEMIC MODEL WITH VACCINATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350144.	1.7	24
97	Dynamics of an infectious diseases with media/psychology induced non-smooth incidence. Mathematical Biosciences and Engineering, 2013, 10, 445-461.	1.9	118
98	MODELING STRATEGIES FOR CONTROLLING H1N1 OUTBREAKS IN CHINA. International Journal of Biomathematics, 2012, 05, 1250017.	2.9	2
99	THE DYNAMICS OF A DISCRETE SEIT MODEL WITH AGE AND INFECTION AGE STRUCTURES. International Journal of Biomathematics, 2012, 05, 1260004.	2.9	2
100	Sliding Mode Control of Outbreaks of Emerging Infectious Diseases. Bulletin of Mathematical Biology, 2012, 74, 2403-2422.	1.9	95
101	Modelling disease spread in dispersal networks at two levels. Mathematical Medicine and Biology, 2011, 28, 227-244.	1.2	26
102	A SEMI-STOCHASTIC MODEL FOR HIV POPULATION DYNAMICS. International Journal of Biomathematics, 2009, 02, 391-404.	2.9	2
103	The effect of delayed host self-regulation on host-pathogen population cycles in forest insects. Journal of Theoretical Biology, 2009, 258, 240-249.	1.7	2
104	Analysis of PD-type iterative learning control for discrete-time singular system. Mathematical Methods in the Applied Sciences, 0, , .	2.3	8
105	A robust study to conceptualize the interactions of CD4+T-cells and human immunodeficiency virus via fractional-calculus. Physica Scripta, 0, , .	2.5	9