

# Gul Zaman

## List of Publications by Year in descending order

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75  
papers

1,757  
citations

394421

19  
h-index

315739

38  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1009  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal control application to the epidemiology of HBV and HCV co-infection. International Journal of Biomathematics, 2022, 15, .	2.9	9
2	Entropy generation from convectiveâ€“radiative moving exponential porous fins with variable thermal conductivity and internal heat generations. Scientific Reports, 2022, 12, 1791.	3.3	26
3	Investigation of Heat Transfer from Convective and Radiative Stretching/Shrinking Rectangular Fins. Mathematical Problems in Engineering, 2022, 2022, 1-10.	1.1	13
4	A mathematical model for the dynamics of SARS-CoV-2 virus using the Caputo-Fabrizio operator. Mathematical Biosciences and Engineering, 2021, 18, 6095-6116.	1.9	18
5	Modeling the dynamics of novel coronavirus (COVID-19) via stochastic epidemic model. Results in Physics, 2021, 24, 104004.	4.1	26
6	Modeling the transmission dynamics of middle eastern respiratory syndrome coronavirus with the impact of media coverage. Results in Physics, 2021, 24, 104053.	4.1	4
7	Modeling the pandemic trend of 2019 Coronavirus with optimal control analysis. Results in Physics, 2021, 20, 103660.	4.1	6
8	Mathematical modeling and thermodynamics of Prandtlâ€“Eyring fluid with radiation effect: a numerical approach. Scientific Reports, 2021, 11, 22201.	3.3	25
9	Fractional modeling of COVID-19 epidemic model with harmonic mean type incidence rate. Open Physics, 2021, 19, 693-709.	1.7	12
10	Dynamics of an arbitrary order model of toxoplasmosis ailment in human and cat inhabitants. Journal of Taibah University for Science, 2021, 15, 882-896.	2.5	8
11	The Transmission Dynamics of Hepatitis B Virus via the Fractional-Order Epidemiological Model. Complexity, 2021, 2021, 1-18.	1.6	9
12	Stability analysis of delay integro-differential equations of HIV-1 infection model. Georgian Mathematical Journal, 2020, 27, 331-340.	0.6	0
13	Existence, uniqueness, and stability of fractional hepatitis B epidemic model. Chaos, 2020, 30, 103104.	2.5	17
14	Mathematical Model for Coronavirus Disease 2019 (COVID-19) Containing Isolation Class. BioMed Research International, 2020, 2020, 1-7.	1.9	131
15	A stochastic SACR epidemic model for HBV transmission. Journal of Biological Dynamics, 2020, 14, 788-801.	1.7	16
16	Evaluation and control estimation strategy for three acting play diseases with six control variables. Cogent Mathematics & Statistics, 2020, 7, 1805871.	0.9	0
17	Co-infection of Middle Eastern respiratory syndrome coronavirus and pulmonary tuberculosis. Chaos, Solitons and Fractals, 2020, 140, 110205.	5.1	3
18	HIV-1 infection dynamics and optimal control with Crowley-Martin function response. Computer Methods and Programs in Biomedicine, 2020, 193, 105503.	4.7	11

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19	Stability analysis of leishmania epidemic model with harmonic mean type incidence rate. <i>European Physical Journal Plus</i> , 2020, 135, 528.	2.6	31
20	Mathematical analysis of spread and control of the novel corona virus (COVID-19) in China. <i>Chaos, Solitons and Fractals</i> , 2020, 141, 110286.	5.1	106
21	Hopf bifurcation and global dynamics of time delayed Dengue model. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 195, 105530.	4.7	17
22	Modeling and qualitative analysis of a hepatitis B epidemic model. <i>Chaos</i> , 2019, 29, 103139.	2.5	15
23	Optimal control of the mathematical viral dynamic model of different hepatitis B infected individuals with numerical simulation. <i>International Journal of Modern Physics B</i> , 2019, 33, 1950310.	2.0	12
24	Prevention strategy for superinfection mathematical model tuberculosis and HIV associated with AIDS. <i>Cogent Mathematics &amp; Statistics</i> , 2019, 6, 1637166.	0.9	6
25	Existence theory and numerical solutions to smoking model under Caputo-Fabrizio fractional derivative. <i>Chaos</i> , 2019, 29, 013128.	2.5	72
26	Dynamical Analysis of Approximate Solutions of HIV-1 Model with an Arbitrary Order. <i>Complexity</i> , 2019, 2019, 1-7.	1.6	4
27	Modeling and control of the hepatitis B virus spreading using an epidemic model. <i>Chaos, Solitons and Fractals</i> , 2019, 124, 1-9.	5.1	45
28	A stochastic model for the transmission dynamics of hepatitis B virus. <i>Journal of Biological Dynamics</i> , 2019, 13, 328-344.	1.7	19
29	Stability behaviour of mathematical model MERS corona virus spread in population. <i>Filomat</i> , 2019, 33, 3947-3960.	0.5	23
30	Mathematical analysis of HIV/AIDS infection model with Caputo-Fabrizio fractional derivative. <i>Cogent Mathematics &amp; Statistics</i> , 2018, 5, 1432521.	0.9	36
31	Dynamical analysis of cigarette smoking model with a saturated incidence rate. <i>AIP Advances</i> , 2018, 8, .	1.3	16
32	Global Aspects of Age-Structured Cigarette Smoking Model. <i>Mediterranean Journal of Mathematics</i> , 2018, 15, 1.	0.8	7
33	A hydromagnetic flow through porous medium near an accelerating plate in the presence of magnetic field. <i>Georgian Mathematical Journal</i> , 2018, 25, 409-418.	0.6	2
34	Ebola virus epidemic disease its modeling and stability analysis required abstain strategies. <i>Cogent Biology</i> , 2018, 4, 1488511.	1.7	11
35	An approach for approximate solution of fractional-order smoking model with relapse class. <i>International Journal of Biomathematics</i> , 2018, 11, 1850077.	2.9	10
36	Magnetohydrodynamic fluid flow and heat transfer over a shrinking sheet under the influence of thermal slip. <i>Heliyon</i> , 2018, 4, e00828.	3.2	13

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37	Optimal control strategy of SEIR endemic model with continuous age-structure in the exposed and infectious classes. <i>Optimal Control Applications and Methods</i> , 2018, 39, 1716-1727.	2.1	21
38	Spreading dynamic of acute and carrier hepatitis B with nonlinear incidence. <i>PLoS ONE</i> , 2018, 13, e0191914.	2.5	12
39	Study of Jordan quasigroups and their construction. <i>Journal of Taibah University for Science</i> , 2018, 12, 150-154.	2.5	0
40	The transmission dynamic of different hepatitis B-infected individuals with the effect of hospitalization. <i>Journal of Biological Dynamics</i> , 2018, 12, 611-631.	1.7	13
41	Comparing Two Numerical Methods for Approximating a New Giving Up Smoking Model Involving Fractional Order Derivatives. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2017, 41, 569-575.	1.5	8
42	Optimal control strategy of HIV-1 epidemic model for recombinant virus. <i>Cogent Mathematics</i> , 2017, 4, 1293468.	0.4	10
43	Mathematical analysis of delayed HIV-1 infection model for the competition of two viruses. <i>Cogent Mathematics</i> , 2017, 4, 1332821.	0.4	2
44	Lie group analysis of magnetohydrodynamic tangent hyperbolic fluid flow towards a stretching sheet with slip conditions. <i>Heliyon</i> , 2017, 3, e00443.	3.2	42
45	Control strategies and sensitivity analysis of anthroponotic visceral leishmaniasis model. <i>Journal of Biological Dynamics</i> , 2017, 11, 323-338.	1.7	7
46	The transmission dynamic and optimal control of acute and chronic hepatitis B. <i>Journal of Biological Dynamics</i> , 2017, 11, 172-189.	1.7	77
47	The Effects of Time Lag and Cure Rate on the Global Dynamics of HIV-1 Model. <i>BioMed Research International</i> , 2017, 2017, 1-11.	1.9	9
48	Mathematical Modeling and Control of Infectious Diseases. <i>Computational and Mathematical Methods in Medicine</i> , 2017, 2017, 1-1.	1.3	10
49	Classification and sensitivity analysis of the transmission dynamic of hepatitis B. <i>Theoretical Biology and Medical Modelling</i> , 2017, 14, 22.	2.1	11
50	Classification of different Hepatitis B infected individuals with saturated incidence rate. <i>SpringerPlus</i> , 2016, 5, 1082.	1.2	32
51	Dynamical aspects of an age-structured SIR endemic model. <i>Computers and Mathematics With Applications</i> , 2016, 72, 1690-1702.	2.7	14
52	Asymptotic behavior of HIV-1 epidemic model with infinite distributed intracellular delays. <i>SpringerPlus</i> , 2016, 5, 324.	1.2	8
53	Approximating a Giving Up Smoking Dynamic on Adolescent Nicotine Dependence in Fractional Order. <i>PLoS ONE</i> , 2016, 11, e0103617.	2.5	9
54	Sensitivity Analysis and Optimal Control of Anthroponotic Cutaneous Leishmania. <i>PLoS ONE</i> , 2016, 11, e0160513.	2.5	28

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55	Perturbation Methods and Formal Modeling for Dynamic Systems. Abstract and Applied Analysis, 2015, 2015, 1-2.	0.7	0
56	Comment on "Transmission Model of Hepatitis B Virus with Migration Effect". BioMed Research International, 2015, 2015, 1-4.	1.9	1
57	Multiple Control Strategies for Prevention of Avian Influenza Pandemic. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	3
58	Comparison of Numerical Methods of the SEIR Epidemic Model of Fractional Order. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 81-89.	1.5	7
59	Optimal Campaign Strategies in Fractional-Order Smoking Dynamics. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 225-231.	1.5	11
60	Square-root dynamics of a giving up smoking model. Applied Mathematical Modelling, 2013, 37, 5326-5334.	4.2	59
61	Optimal Vaccination of an Endemic Model with Variable Infectivity and Infinite Delay. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 677-685.	1.5	6
62	Backward bifurcation and optimal control of a vector borne disease. Applied Mathematics and Information Sciences, 2013, 7, 301-309.	0.5	27
63	Presentation of Malaria Epidemics Using Multiple Optimal Controls. Journal of Applied Mathematics, 2012, 2012, 1-17.	0.9	30
64	Blood flow of an Oldroyd-B fluid in a blood vessel incorporating a Brownian stress. Science China: Physics, Mechanics and Astronomy, 2012, 55, 125-131.	5.1	7
65	Global dynamics of vector-borne diseases with horizontal transmission in host population. Computers and Mathematics With Applications, 2011, 61, 745-754.	2.7	44
66	Dynamics and Control of a System of Two Non-Interacting Preys with Common Predator. Mathematical Methods in the Applied Sciences, 2011, 34, n/a-n/a.	2.3	1
67	Optimal Campaign in the Smoking Dynamics. Computational and Mathematical Methods in Medicine, 2011, 2011, 1-9.	1.3	34
68	ORIENTATIONAL STRESS TENSOR OF POLYMER SOLUTION WITH APPLICATIONS TO BLOOD FLOW. Modern Physics Letters B, 2011, 25, 1157-1166.	1.9	0
69	Optimal treatment of an SIR epidemic model with time delay. BioSystems, 2009, 98, 43-50.	2.0	110
70	Stability analysis and optimal vaccination of an SIR epidemic model. BioSystems, 2008, 93, 240-249.	2.0	292
71	The Effect Of Constant Yield Harvesting Analysis In The Spruce Budworm Population Dynamics. AIP Conference Proceedings, 2008, , .	0.4	0
72	Stability techniques in SIR epidemic models. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2030063-2030064.	0.2	4

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73	Optimal control strategies for an age-structured SEIR epidemic model. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	2.3	0
74	Entropy generation in moving exponential porous fins with natural convection, radiation and internal heat generation. <i>Archive of Applied Mechanics</i> , 0, , 1.	2.2	10
75	A numerical approach to interpret melting and activation energy phenomenon on the magnetized transient flow of Prandtl-Eyring fluid with the application of Cattaneo-Christov theory. <i>Waves in Random and Complex Media</i> , 0, , 1-21.	2.7	19