

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	Stability analysis and optimal vaccination of an SIR epidemic model. <i>BioSystems</i> , 2008, 93, 240-249.	2.0	292
2	Mathematical Model for Coronavirus Disease 2019 (COVID-19) Containing Isolation Class. <i>BioMed Research International</i> , 2020, 2020, 1-7.	1.9	131
3	Optimal treatment of an SIR epidemic model with time delay. <i>BioSystems</i> , 2009, 98, 43-50.	2.0	110
4	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
5	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
6	Existence theory and numerical solutions to smoking model under Caputo-Fabrizio fractional derivative. <i>Chaos</i> , 2019, 29, 013128.	2.5	72
7	Square-root dynamics of a giving up smoking model. <i>Applied Mathematical Modelling</i> , 2013, 37, 5326-5334.	4.2	59
8	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
9	Global dynamics of vector-borne diseases with horizontal transmission in host population. <i>Computers and Mathematics With Applications</i> , 2011, 61, 745-754.	2.7	44
10	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
11	Mathematical analysis of HIV/AIDS infection model with Caputo-Fabrizio fractional derivative. <i>Cogent Mathematics & Statistics</i> , 2018, 5, 1432521.	0.9	36
12	Optimal Campaign in the Smoking Dynamics. <i>Computational and Mathematical Methods in Medicine</i> , 2011, 2011, 1-9.	1.3	34
13	Classification of different Hepatitis B infected individuals with saturated incidence rate. <i>SpringerPlus</i> , 2016, 5, 1082.	1.2	32
14	Stability analysis of leishmania epidemic model with harmonic mean type incidence rate. <i>European Physical Journal Plus</i> , 2020, 135, 528.	2.6	31
15	Presentation of Malaria Epidemics Using Multiple Optimal Controls. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-17.	0.9	30
16	Sensitivity Analysis and Optimal Control of Anthroponotic Cutaneous Leishmania. <i>PLoS ONE</i> , 2016, 11, e0160513.	2.5	28
17	Backward bifurcation and optimal control of a vector borne disease. <i>Applied Mathematics and Information Sciences</i> , 2013, 7, 301-309.	0.5	27
18	Modeling the dynamics of novel coronavirus (COVID-19) via stochastic epidemic model. <i>Results in Physics</i> , 2021, 24, 104004.	4.1	26

#	ARTICLE	IF	CITATIONS
19	Entropy generation from convectiveâ€“radiative moving exponential porous fins with variable thermal conductivity and internal heat generations. <i>Scientific Reports</i> , 2022, 12, 1791.	3.3	26
20	Mathematical modeling and thermodynamics of Prandtlâ€“Eyring fluid with radiation effect: a numerical approach. <i>Scientific Reports</i> , 2021, 11, 22201.	3.3	25
21	Stability behaviour of mathematical model MERS corona virus spread in population. <i>Filomat</i> , 2019, 33, 3947-3960.	0.5	23
22	Optimal control strategy of SEIR endemic model with continuous ageâ€“structure in the exposed and infectious classes. <i>Optimal Control Applications and Methods</i> , 2018, 39, 1716-1727.	2.1	21
23	A stochastic model for the transmission dynamics of hepatitis B virus. <i>Journal of Biological Dynamics</i> , 2019, 13, 328-344.	1.7	19
24	A numerical approach to interpret melting and activation energy phenomenon on the magnetized transient flow of Prandtlâ€“Eyring fluid with the application of Cattaneoâ€“Christov theory. <i>Waves in Random and Complex Media</i> , 0, , 1-21.	2.7	19
25	A mathematical model for the dynamics of SARS-CoV-2 virus using the Caputo-Fabrizio operator. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 6095-6116.	1.9	18
26	Existence, uniqueness, and stability of fractional hepatitis B epidemic model. <i>Chaos</i> , 2020, 30, 103104.	2.5	17
27	Hopf bifurcation and global dynamics of time delayed Dengue model. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 195, 105530.	4.7	17
28	Dynamical analysis of cigarette smoking model with a saturated incidence rate. <i>AIP Advances</i> , 2018, 8, .	1.3	16
29	A stochastic SACR epidemic model for HBV transmission. <i>Journal of Biological Dynamics</i> , 2020, 14, 788-801.	1.7	16
30	Modeling and qualitative analysis of a hepatitis B epidemic model. <i>Chaos</i> , 2019, 29, 103139.	2.5	15
31	Dynamical aspects of an age-structured SIR endemic model. <i>Computers and Mathematics With Applications</i> , 2016, 72, 1690-1702.	2.7	14
32	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
33	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
34	Investigation of Heat Transfer from Convective and Radiative Stretching/Shrinking Rectangular Fins. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-10.	1.1	13
35	Spreading dynamic of acute and carrier hepatitis B with nonlinear incidence. <i>PLoS ONE</i> , 2018, 13, e0191914.	2.5	12
36	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

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37	Fractional modeling of COVID-19 epidemic model with harmonic mean type incidence rate. Open Physics, 2021, 19, 693-709.	1.7	12
38	Optimal Campaign Strategies in Fractional-Order Smoking Dynamics. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 225-231.	1.5	11
39	Classification and sensitivity analysis of the transmission dynamic of hepatitis B. Theoretical Biology and Medical Modelling, 2017, 14, 22.	2.1	11
40	Ebola virus epidemic disease its modeling and stability analysis required abstain strategies. Cogent Biology, 2018, 4, 1488511.	1.7	11
41	HIV-1 infection dynamics and optimal control with Crowley-Martin function response. Computer Methods and Programs in Biomedicine, 2020, 193, 105503.	4.7	11
42	Optimal control strategy of HIV-1 epidemic model for recombinant virus. Cogent Mathematics, 2017, 4, 1293468.	0.4	10
43	Mathematical Modeling and Control of Infectious Diseases. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-1.	1.3	10
44	An approach for approximate solution of fractional-order smoking model with relapse class. International Journal of Biomathematics, 2018, 11, 1850077.	2.9	10
45	Entropy generation in moving exponential porous fins with natural convection, radiation and internal heat generation. Archive of Applied Mechanics, 0, , 1.	2.2	10
46	The Effects of Time Lag and Cure Rate on the Global Dynamics of HIV-1 Model. BioMed Research International, 2017, 2017, 1-11.	1.9	9
47	Approximating a Giving Up Smoking Dynamic on Adolescent Nicotine Dependence in Fractional Order. PLoS ONE, 2016, 11, e0103617.	2.5	9
48	Optimal control application to the epidemiology of HBV and HCV co-infection. International Journal of Biomathematics, 2022, 15, .	2.9	9
49	The Transmission Dynamics of Hepatitis B Virus via the Fractional-Order Epidemiological Model. Complexity, 2021, 2021, 1-18.	1.6	9
50	Asymptotic behavior of HIV-1 epidemic model with infinite distributed intracellular delays. SpringerPlus, 2016, 5, 324.	1.2	8
51	Comparing Two Numerical Methods for Approximating a New Giving Up Smoking Model Involving Fractional Order Derivatives. Iranian Journal of Science and Technology, Transaction A: Science, 2017, 41, 569-575.	1.5	8
52	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
53	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
54	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

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55	Control strategies and sensitivity analysis of anthroponotic visceral leishmaniasis model. Journal of Biological Dynamics, 2017, 11, 323-338.	1.7	7
56	Global Aspects of Age-Structured Cigarette Smoking Model. Mediterranean Journal of Mathematics, 2018, 15, 1.	0.8	7
57	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
58	Prevention strategy for superinfection mathematical model tuberculosis and HIV associated with AIDS. Cogent Mathematics & Statistics, 2019, 6, 1637166.	0.9	6
59	Modeling the pandemic trend of 2019 Coronavirus with optimal control analysis. Results in Physics, 2021, 20, 103660.	4.1	6
60	Stability techniques in SIR epidemic models. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2030063-2030064.	0.2	4
61	Dynamical Analysis of Approximate Solutions of HIV-1 Model with an Arbitrary Order. Complexity, 2019, 2019, 1-7.	1.6	4
62	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
63	Multiple Control Strategies for Prevention of Avian Influenza Pandemic. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	3
64	Co-infection of Middle Eastern respiratory syndrome coronavirus and pulmonary tuberculosis. Chaos, Solitons and Fractals, 2020, 140, 110205.	5.1	3
65	Mathematical analysis of delayed HIV-1 infection model for the competition of two viruses. Cogent Mathematics, 2017, 4, 1332821.	0.4	2
66	A hydromagnetic flow through porous medium near an accelerating plate in the presence of magnetic field. Georgian Mathematical Journal, 2018, 25, 409-418.	0.6	2
67	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
68	Comment on "Transmission Model of Hepatitis B Virus with Migration Effect" BioMed Research International, 2015, 2015, 1-4.	1.9	1
69	The Effect Of Constant Yield Harvesting Analysis In The Spruce Budworm Population Dynamics. AIP Conference Proceedings, 2008, , .	0.4	0
70	ORIENTATIONAL STRESS TENSOR OF POLYMER SOLUTION WITH APPLICATIONS TO BLOOD FLOW. Modern Physics Letters B, 2011, 25, 1157-1166.	1.9	0
71	Perturbation Methods and Formal Modeling for Dynamic Systems. Abstract and Applied Analysis, 2015, 2015, 1-2.	0.7	0
72	Study of Jordan quasigroups and their construction. Journal of Taibah University for Science, 2018, 12, 150-154.	2.5	0

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73	Stability analysis of delay integro-differential equations of HIV-1 infection model. Georgian Mathematical Journal, 2020, 27, 331-340.	0.6	0
74	Evaluation and control estimation strategy for three acting play diseases with six control variables. Cogent Mathematics & Statistics, 2020, 7, 1805871.	0.9	0
75	Optimal control strategies for an age-structured SEIR epidemic model. Mathematical Methods in the Applied Sciences, 0, , .	2.3	0