Abdul_Aziz Yakubu

List of Publications by Year
in descending order

73 papers	1,294 citations	331670 21 h-index	395702 33 g-index
76 all docs	76 docs citations	76 times ranked	676 citing authors

#	Article	IF	Citations
1	Strong Allee effect and basins of attraction in a discreteâ€time zoonotic infectious disease model. Natural Resource Modelling, 2022, 35, .	2.0	0
2	Disease-Induced Hydra Effect with Overcompensatory Recruitment. Bulletin of Mathematical Biology, 2022, 84, 17.	1.9	3
3	Mathematical modeling of the influence of cultural practices on cholera infections in Cameroon. Mathematical Biosciences and Engineering, 2021, 18, 8374-8391.	1.9	4
4	Asymptotic behavior of a discrete-time density-dependent SI epidemic model with constant recruitment. Journal of Applied Mathematics and Computing, 2021, 67, 733-753.	2.5	5
5	A discrete-time risk-structured model of cholera infections in Cameroon. Journal of Biological Dynamics, 2021, 15, 523-562.	1.7	2
6	A discrete-time infectious disease model for global pandemics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2116845118.	7.1	2
7	Risk structured model of cholera infections in Cameroon. Mathematical Biosciences, 2020, 320, 108303.	1.9	5
8	EBOLA OUTBREAKS AND INTERNATIONAL TRAVEL RESTRICTIONS: CASE STUDIES OF CENTRAL AND WEST AFRICA REGIONS. Journal of Biological Systems, 2020, 28, 431-452.	1.4	5
9	Age structured discrete-time disease models with demographic population cycles. Journal of Biological Dynamics, 2020, 14, 308-331.	1.7	4
10	Demographic population cycles and â„›₀in discrete-time epidemic models. Journal of Biological Dynamics, 2019, 13, 179-200.	1.7	5
11	Disease Extinction Versus Persistence in Discrete-Time Epidemic Models. Bulletin of Mathematical Biology, 2019, 81, 4412-4446.	1.9	22
12	A Risk-Structured Mathematical Model of Buruli Ulcer Disease in Ghana. Mathematics of Planet Earth, 2019, , 109-128.	0.1	6
13	A discrete-time anthrax model in human and herbivore populations. Natural Resource Modelling, 2018, 31, e12192.	2.0	0
14	Modelling Wolbachia infection in a sex-structured mosquito population carrying West Nile virus. Journal of Mathematical Biology, 2017, 75, 621-647.	1.9	24
15	A Mathematical Model of Anthrax Transmission in Animal Populations. Bulletin of Mathematical Biology, 2017, 79, 303-324.	1.9	32
16	Granuloma formation in leishmaniasis: A mathematical model. Journal of Theoretical Biology, 2017, 412, 48-60.	1.7	17
17	Malaria incidence and anopheles mosquito density in irrigated and adjacent non-irrigated villages of Niono in Mali. Discrete and Continuous Dynamical Systems - Series B, 2017, 22, 841-857.	0.9	1
18	Controlling imported malaria cases in the United States of America. Mathematical Biosciences and Engineering, 2017, 14, 95-109.	1.9	4

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19	Immune response to infection by Leishmania: A mathematical model. Mathematical Biosciences, 2016, 276, 28-43.	1.9	24
20	A Bovine Babesiosis Model with Dispersion. Bulletin of Mathematical Biology, 2014, 76, 98-135.	1.9	21
21	Anthrax epizootic and migration: Persistence or extinction. Mathematical Biosciences, 2013, 241, 137-144.	1.9	44
22	Predator-induced and mating limitation-induced Allee effects in a discrete-time<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si45.gif" display="inline" overflow="scroll"><mml:mi>S</mml:mi><mml:mi>I</mml:mi><mml:mi>M</mml:mi><mml:mi>S</mml:mi></mml:math>epidemic model. Computers and Mathematics With Applications, 2013, 66, 2196-2210.	2.7	1
23	Fatal disease and demographic Allee effect: population persistence and extinction. Journal of Biological Dynamics, 2012, 6, 495-508.	1.7	26
24	Host Demographic Allee Effect, Fatal Disease, and Migration: Persistence or Extinction. SIAM Journal on Applied Mathematics, 2012, 72, 1644-1666.	1.8	12
25	A JUVENILEâ€ADULT DISCRETEâ€TIME PRODUCTION MODEL OF EXPLOITED FISHERY SYSTEMS. Natural Resource Modelling, 2012, 25, 273-324.	2.0	3
26	Optimal treated mosquito bed nets and insecticides for eradication of malaria in Missira. Discrete and Continuous Dynamical Systems - Series B, 2012, 17, 1831-1840.	0.9	5
27	Constant proportion harvest policies: Dynamic implications in the Pacific halibut and Atlantic cod fisheries. Mathematical Biosciences, 2011, 232, 66-77.	1.9	14
28	Discrete-time exploited fish epidemic models. Afrika Matematika, 2011, 22, 177-199.	0.8	3
29	Coexistence of competitors in deterministic and stochastic patchy environments. Journal of Biological Dynamics, 2011, 5, 454-473.	1.7	6
30	Periodically forced discrete-time SIS epidemic model with disease induced mortality. Mathematical Biosciences and Engineering, 2011, 8, 385-408.	1.9	7
31	Mathematical Model for Optimal Use ofÂSulfadoxine-Pyrimethamine as a Temporary Malaria Vaccine. Bulletin of Mathematical Biology, 2010, 72, 914-930.	1.9	8
32	A Heuristic Algorithm for Finding the Longest Pathways in a Biochemical Network. , 2010, , .		1
33	Peptide Sequence Tag-Based Blind Identification-based SVM Model. , 2010, , .		0
34	Introduction to discrete-time epidemic models. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 2010, , 83-107.	0.0	8
35	Periodic versus constant harvesting of discretely reproducing fish populations. Journal of Biological Dynamics, 2009, 3, 342-356.	1.7	4
36	Discrete hierarchical competition with reward and cost of dispersion. Journal of Difference Equations and Applications, 2009, 15, 399-414.	1.1	1

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37	Malaria model with periodic mosquito birth and death rates. Journal of Biological Dynamics, 2009, 3, 430-445.	1.7	21
38	Disease-induced mortality in density-dependent discrete-time S-I-S epidemic models. Journal of Mathematical Biology, 2008, 57, 755-790.	1.9	33
39	Allee effects in a discrete-time SIS epidemic model with infected newborns. Journal of Difference Equations and Applications, 2007, 13, 341-356.	1.1	43
40	Population models in almost periodic environments. Journal of Difference Equations and Applications, 2007, 13, 239-260.	1.1	44
41	Using a signature function to determine resonant and attenuant 2-cycles in the Smithâ€"Slatkin population model. Journal of Difference Equations and Applications, 2007, 13, 289-308.	1.1	5
42	SIS epidemic attractors in periodic environments. Journal of Biological Dynamics, 2007, 1, 394-412.	1.7	2
43	Spatially discrete metapopulation models with directional dispersal. Mathematical Biosciences, 2006, 204, 68-101.	1.9	23
44	Globally attracting attenuant versus resonant cycles in periodic compensatory Leslie models. Mathematical Biosciences, 2006, 204, 1-20.	1.9	12
45	Attenuant cycles in periodically forced discrete-time age-structured population models. Journal of Mathematical Analysis and Applications, 2006, 316, 69-86.	1.0	10
46	Signature Function for Predicting Resonant and Attenuant Population 2-cycles. Bulletin of Mathematical Biology, 2006, 68, 2069-2104.	1.9	12
47	Discrete-Time SIS EpidemicModel in a Seasonal Environment. SIAM Journal on Applied Mathematics, 2006, 66, 1563-1587.	1.8	52
48	Periodic dynamical systems in unidirectional metapopulation models. Journal of Difference Equations and Applications, 2005, 11, 687-700.	1.1	17
49	Population models with periodic recruitment functions and survival rates. Journal of Difference Equations and Applications, 2005, 11, 1169-1184.	1.1	20
50	Multiple attractors via CUSP bifurcation in periodically varying environments. Journal of Difference Equations and Applications, 2005, 11, 365-377.	1.1	15
51	PERIODICALLY FORCED NONLINEAR DIFFERENCE EQUATIONS WITH DELAY. , 2005, , .		3
52	Monarch butterfly spatially discrete advection model. Mathematical Biosciences, 2004, 190, 183-202.	1.9	21
53	Compensatory versus Overcompensatory Dynamics in Density-dependent Leslie Models. Journal of Difference Equations and Applications, 2004, 10, 1251-1265.	1.1	18
54	Multiple Attractors in Juvenile-adult Single Species Models. Journal of Difference Equations and Applications, 2003, 9, 1083-1098.	1.1	13

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55	Discrete-time Metapopulation Dynamics and Unidirectional Dispersal. Journal of Difference Equations and Applications, 2003, 9, 633-653.	1.1	7
56	Mathematical Models of Isolation and Quarantine. JAMA - Journal of the American Medical Association, 2003, 290, 2876-2877.	7.4	70
57	Open Problems and Conjectures. Journal of Difference Equations and Applications, 2002, 8, 755-760.	1.1	6
58	Global Stability of Cycles: Lotka-Volterra Competition Model With Stocking. Journal of Difference Equations and Applications, 2002, 8, 537-549.	1.1	43
59	Interplay between Local Dynamics and Dispersal in Discrete-time Metapopulation Models. Journal of Theoretical Biology, 2002, 218, 273-288.	1.7	38
60	Intraspecific Competition, Dispersal and Disease Dynamics in Discrete-Time Patchy Environments. The IMA Volumes in Mathematics and Its Applications, 2002, , 165-181.	0.5	11
61	Dispersal, disease and life-history evolution. Mathematical Biosciences, 2001, 173, 35-53.	1.9	77
62	Discrete-time S-I-S models with complex dynamics. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 4753-4762.	1.1	82
63	Open problems and conjectures. Journal of Difference Equations and Applications, 1999, 5, 305-309.	1.1	0
64	Exclusionary population dynamics in size-structured, discrete competitive systems. Journal of Difference Equations and Applications, 1999, 5, 235-249.	1.1	6
65	Open problems and conjectures. Journal of Difference Equations and Applications, 1998, 4, 213-214.	1.1	12
66	Principles of competitive exclusion for discrete populations with reproducing juveniles and adults. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 1197-1205.	1.1	5
67	Extinction of species in age-structured, discrete noncooperative systems. Journal of Mathematical Biology, 1996, 34, 442-454.	1.9	7
68	Extinction and Persistence of Species in Discrete Competitive Systems with a Safe Refuge. Journal of Mathematical Analysis and Applications, 1996, 203, 746-761.	1.0	21
69	Extinction of species in age-structured, discrete noncooperative systems. Journal of Mathematical Biology, 1996, 34, 442-454.	1.9	0
70	The effects of planting and harvesting on endangered species in discrete competitive systems. Mathematical Biosciences, 1995, 126, 1-20.	1.9	25
71	Geometry of exclusion principles in discrete systems. Journal of Mathematical Analysis and Applications, 1992, 168, 385-400.	1.0	57
72	Global attractors in competitive systems. Nonlinear Analysis: Theory, Methods & Applications, 1991, 16, 111-129.	1.1	32

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73	Mutual exclusion versus coexistence for discrete competitive systems. Journal of Mathematical Biology, 1991, 30, 161-168.	1.9	88