

Abdul_Aziz Yakubu

List of Publications by Year in descending order

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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	Mutual exclusion versus coexistence for discrete competitive systems. <i>Journal of Mathematical Biology</i> , 1991, 30, 161-168.	1.9	88
2	Discrete-time S-I-S models with complex dynamics. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2001, 47, 4753-4762.	1.1	82
3	Dispersal, disease and life-history evolution. <i>Mathematical Biosciences</i> , 2001, 173, 35-53.	1.9	77
4	Mathematical Models of Isolation and Quarantine. <i>JAMA - Journal of the American Medical Association</i> , 2003, 290, 2876-2877.	7.4	70
5	Geometry of exclusion principles in discrete systems. <i>Journal of Mathematical Analysis and Applications</i> , 1992, 168, 385-400.	1.0	57
6	Discrete-Time SIS Epidemic Model in a Seasonal Environment. <i>SIAM Journal on Applied Mathematics</i> , 2006, 66, 1563-1587.	1.8	52
7	Population models in almost periodic environments. <i>Journal of Difference Equations and Applications</i> , 2007, 13, 239-260.	1.1	44
8	Anthrax epizootic and migration: Persistence or extinction. <i>Mathematical Biosciences</i> , 2013, 241, 137-144.	1.9	44
9	Global Stability of Cycles: Lotka-Volterra Competition Model With Stocking. <i>Journal of Difference Equations and Applications</i> , 2002, 8, 537-549.	1.1	43
10	Allee effects in a discrete-time SIS epidemic model with infected newborns. <i>Journal of Difference Equations and Applications</i> , 2007, 13, 341-356.	1.1	43
11	Interplay between Local Dynamics and Dispersal in Discrete-time Metapopulation Models. <i>Journal of Theoretical Biology</i> , 2002, 218, 273-288.	1.7	38
12	Disease-induced mortality in density-dependent discrete-time S-I-S epidemic models. <i>Journal of Mathematical Biology</i> , 2008, 57, 755-790.	1.9	33
13	Global attractors in competitive systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1991, 16, 111-129.	1.1	32
14	A Mathematical Model of Anthrax Transmission in Animal Populations. <i>Bulletin of Mathematical Biology</i> , 2017, 79, 303-324.	1.9	32
15	Fatal disease and demographic Allee effect: population persistence and extinction. <i>Journal of Biological Dynamics</i> , 2012, 6, 495-508.	1.7	26
16	The effects of planting and harvesting on endangered species in discrete competitive systems. <i>Mathematical Biosciences</i> , 1995, 126, 1-20.	1.9	25
17	Immune response to infection by <i>Leishmania</i> : A mathematical model. <i>Mathematical Biosciences</i> , 2016, 276, 28-43.	1.9	24
18	Modelling <i>Wolbachia</i> infection in a sex-structured mosquito population carrying West Nile virus. <i>Journal of Mathematical Biology</i> , 2017, 75, 621-647.	1.9	24

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19	Spatially discrete metapopulation models with directional dispersal. <i>Mathematical Biosciences</i> , 2006, 204, 68-101.	1.9	23
20	Disease Extinction Versus Persistence in Discrete-Time Epidemic Models. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 4412-4446.	1.9	22
21	Extinction and Persistence of Species in Discrete Competitive Systems with a Safe Refuge. <i>Journal of Mathematical Analysis and Applications</i> , 1996, 203, 746-761.	1.0	21
22	Monarch butterfly spatially discrete advection model. <i>Mathematical Biosciences</i> , 2004, 190, 183-202.	1.9	21
23	Malaria model with periodic mosquito birth and death rates. <i>Journal of Biological Dynamics</i> , 2009, 3, 430-445.	1.7	21
24	A Bovine Babesiosis Model with Dispersion. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 98-135.	1.9	21
25	Population models with periodic recruitment functions and survival rates. <i>Journal of Difference Equations and Applications</i> , 2005, 11, 1169-1184.	1.1	20
26	Compensatory versus Overcompensatory Dynamics in Density-dependent Leslie Models. <i>Journal of Difference Equations and Applications</i> , 2004, 10, 1251-1265.	1.1	18
27	Periodic dynamical systems in unidirectional metapopulation models. <i>Journal of Difference Equations and Applications</i> , 2005, 11, 687-700.	1.1	17
28	Granuloma formation in leishmaniasis: A mathematical model. <i>Journal of Theoretical Biology</i> , 2017, 412, 48-60.	1.7	17
29	Multiple attractors via CUSP bifurcation in periodically varying environments. <i>Journal of Difference Equations and Applications</i> , 2005, 11, 365-377.	1.1	15
30	Constant proportion harvest policies: Dynamic implications in the Pacific halibut and Atlantic cod fisheries. <i>Mathematical Biosciences</i> , 2011, 232, 66-77.	1.9	14
31	Multiple Attractors in Juvenile-adult Single Species Models. <i>Journal of Difference Equations and Applications</i> , 2003, 9, 1083-1098.	1.1	13
32	Open problems and conjectures. <i>Journal of Difference Equations and Applications</i> , 1998, 4, 213-214.	1.1	12
33	Globally attracting attenuant versus resonant cycles in periodic compensatory Leslie models. <i>Mathematical Biosciences</i> , 2006, 204, 1-20.	1.9	12
34	Signature Function for Predicting Resonant and Attenuant Population 2-cycles. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 2069-2104.	1.9	12
35	Host Demographic Allee Effect, Fatal Disease, and Migration: Persistence or Extinction. <i>SIAM Journal on Applied Mathematics</i> , 2012, 72, 1644-1666.	1.8	12
36	Intraspecific Competition, Dispersal and Disease Dynamics in Discrete-Time Patchy Environments. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2002, , 165-181.	0.5	11

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37	Attenuant cycles in periodically forced discrete-time age-structured population models. <i>Journal of Mathematical Analysis and Applications</i> , 2006, 316, 69-86.	1.0	10
38	Mathematical Model for Optimal Use of Sulfadoxine-Pyrimethamine as a Temporary Malaria Vaccine. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 914-930.	1.9	8
39	Introduction to discrete-time epidemic models. <i>DIMACS Series in Discrete Mathematics and Theoretical Computer Science</i> , 2010, , 83-107.	0.0	8
40	Extinction of species in age-structured, discrete noncooperative systems. <i>Journal of Mathematical Biology</i> , 1996, 34, 442-454.	1.9	7
41	Discrete-time Metapopulation Dynamics and Unidirectional Dispersal. <i>Journal of Difference Equations and Applications</i> , 2003, 9, 633-653.	1.1	7
42	Periodically forced discrete-time SIS epidemic model with disease induced mortality. <i>Mathematical Biosciences and Engineering</i> , 2011, 8, 385-408.	1.9	7
43	Exclusionary population dynamics in size-structured, discrete competitive systems. <i>Journal of Difference Equations and Applications</i> , 1999, 5, 235-249.	1.1	6
44	Open Problems and Conjectures. <i>Journal of Difference Equations and Applications</i> , 2002, 8, 755-760.	1.1	6
45	Coexistence of competitors in deterministic and stochastic patchy environments. <i>Journal of Biological Dynamics</i> , 2011, 5, 454-473.	1.7	6
46	A Risk-Structured Mathematical Model of Buruli Ulcer Disease in Ghana. <i>Mathematics of Planet Earth</i> , 2019, , 109-128.	0.1	6
47	Principles of competitive exclusion for discrete populations with reproducing juveniles and adults. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1997, 30, 1197-1205.	1.1	5
48	Using a signature function to determine resonant and attenuant 2-cycles in the Smith-Slatkin population model. <i>Journal of Difference Equations and Applications</i> , 2007, 13, 289-308.	1.1	5
49	Demographic population cycles and $\hat{\rho}_0$ in discrete-time epidemic models. <i>Journal of Biological Dynamics</i> , 2019, 13, 179-200.	1.7	5
50	Risk structured model of cholera infections in Cameroon. <i>Mathematical Biosciences</i> , 2020, 320, 108303.	1.9	5
51	EBOLA OUTBREAKS AND INTERNATIONAL TRAVEL RESTRICTIONS: CASE STUDIES OF CENTRAL AND WEST AFRICA REGIONS. <i>Journal of Biological Systems</i> , 2020, 28, 431-452.	1.4	5
52	Asymptotic behavior of a discrete-time density-dependent SI epidemic model with constant recruitment. <i>Journal of Applied Mathematics and Computing</i> , 2021, 67, 733-753.	2.5	5
53	Optimal treated mosquito bed nets and insecticides for eradication of malaria in Missira. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2012, 17, 1831-1840.	0.9	5
54	Periodic versus constant harvesting of discretely reproducing fish populations. <i>Journal of Biological Dynamics</i> , 2009, 3, 342-356.	1.7	4

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55	Age structured discrete-time disease models with demographic population cycles. Journal of Biological Dynamics, 2020, 14, 308-331.	1.7	4
56	Mathematical modeling of the influence of cultural practices on cholera infections in Cameroon. Mathematical Biosciences and Engineering, 2021, 18, 8374-8391.	1.9	4
57	Controlling imported malaria cases in the United States of America. Mathematical Biosciences and Engineering, 2017, 14, 95-109.	1.9	4
58	Discrete-time exploited fish epidemic models. Afrika Matematika, 2011, 22, 177-199.	0.8	3
59	A JUVENILE-ADULT DISCRETE-TIME PRODUCTION MODEL OF EXPLOITED FISHERY SYSTEMS. Natural Resource Modelling, 2012, 25, 273-324.	2.0	3
60	PERIODICALLY FORCED NONLINEAR DIFFERENCE EQUATIONS WITH DELAY. , 2005, , .		3
61	Disease-Induced Hydra Effect with Overcompensatory Recruitment. Bulletin of Mathematical Biology, 2022, 84, 17.	1.9	3
62	SIS epidemic attractors in periodic environments. Journal of Biological Dynamics, 2007, 1, 394-412.	1.7	2
63	A discrete-time risk-structured model of cholera infections in Cameroon. Journal of Biological Dynamics, 2021, 15, 523-562.	1.7	2
64	A discrete-time infectious disease model for global pandemics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e21116845118.	7.1	2
65	Discrete hierarchical competition with reward and cost of dispersion. Journal of Difference Equations and Applications, 2009, 15, 399-414.	1.1	1
66	A Heuristic Algorithm for Finding the Longest Pathways in a Biochemical Network. , 2010, , .		1
67	Predator-induced and mating limitation-induced Allee effects in a discrete-time epidemic model. Computers and Mathematics With Applications, 2013, 66, 2196-2210.	2.7	1
68	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
69	Open problems and conjectures. Journal of Difference Equations and Applications, 1999, 5, 305-309.	1.1	0
70	Peptide Sequence Tag-Based Blind Identification-based SVM Model. , 2010, , .		0
71	A discrete-time anthrax model in human and herbivore populations. Natural Resource Modelling, 2018, 31, e12192.	2.0	0
72	Strong Allee effect and basins of attraction in a discrete-time zoonotic infectious disease model. Natural Resource Modelling, 2022, 35, .	2.0	0

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73	Extinction of species in age-structured, discrete noncooperative systems. Journal of Mathematical Biology, 1996, 34, 442-454.	1.9	0