Syed Abbas

List of Publications by Year
in descending order

131 papers	1,884 citations	279798 23 h-index	377865 34 g-index
136 all docs	136 docs citations	136 times ranked	937 citing authors

#	ARTICLE	IF	CITATIONS
1	Existence, stability and controllability results of stochastic differential equations with non-instantaneous impulses. International Journal of Control, 2022, 95, 1719-1730.	1.9	12
2	New oscillatory results for non-linear delay dynamic equations with super-linear neutral term. Applied Mathematics and Computation, 2022, 412, 126576.	2.2	2
3	Stability and bifurcation analysis of a fractionalâ€order model of cellâ€toâ€cell spread of HIVâ€1 with a discrete time delay. Mathematical Methods in the Applied Sciences, 2022, 45, 7081-7095.	2.3	16
4	Analysis of fractal dimension of mixed Riemann-Liouville integral. Numerical Algorithms, 2022, 91, 1021-1046.	1.9	24
5	Global dynamics of an age-structured model for HIV viral dynamics with latently infected T cells. Mathematics and Computers in Simulation, 2022, 198, 237-252.	4.4	11
6	Age-Structured SIR Model for the Spread of Infectious Diseases Through Indirect Contacts. Mediterranean Journal of Mathematics, 2022, 19, 1.	0.8	10
7	Oscillation Properties of Solutions of Second Order Neutral Dynamic Equations of Non-canonical Type on Time Scales. Qualitative Theory of Dynamical Systems, 2022, 21, 1.	1.7	2
8	Box dimension of mixed Katugampola fractional integral of two-dimensional continuous functions. Fractional Calculus and Applied Analysis, 2022, 25, 1022-1036.	2.2	15
9	Diffusive size-structured population model with time-varying diffusion rate. Discrete and Continuous Dynamical Systems - Series B, 2022, .	0.9	1
10	Approximate and trajectory controllability of fractional stochastic differential equation with nonâ€instantaneous impulses and Poisson jumps. Asian Journal of Control, 2021, 23, 2669-2680.	3.0	20
11	Approximate Controllability for a Class of Non-instantaneous Impulsive Stochastic Fractional Differential Equation Driven by Fractional Brownian Motion. Differential Equations and Dynamical Systems, 2021, 29, 175-191.	1.0	13
12	Solvability and optimal controls of non-instantaneous impulsive stochastic fractional differential equation of order q ∈ (1,2). Stochastics, 2021, 93, 780-802.	1.1	31
13	Pseudo compact almost automorphic solutions for a family of delayed population model of Nicholson type. Journal of Mathematical Analysis and Applications, 2021, 495, 124722.	1.0	7
14	Inner Bounds for the Almost Entropic Region and Network Code Construction. IEEE Transactions on Communications, 2021, 69, 19-30.	7.8	2
15	Analysis of infectious disease transmission and prediction through SEIQR epidemic model. Nonautonomous Dynamical Systems, 2021, 8, 75-86.	0.7	8
16	Mathematical modeling and analysis for controlling the spread of infectious diseases. Chaos, Solitons and Fractals, 2021, 144, 110707.	5.1	24
17	Stability and approximation of almost automorphic solutions on time scales for the stochastic Nicholson's blowflies model. Journal of Integral Equations and Applications, 2021, 33, .	0.6	3
18	Secondâ€order oscillation of nonâ€canonical functional dynamical equations on time scales. Mathematical Methods in the Applied Sciences, 2021, 44, 9292-9301.	2.3	3

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19	On stability analysis of hybrid fractional boundary value problem. Indian Journal of Pure and Applied Mathematics, 2021, 52, 27-38.	0.5	1
20	THE CALCULUS OF BIVARIATE FRACTAL INTERPOLATION SURFACES. Fractals, 2021, 29, 2150066.	3.7	28
21	Dynamical analysis and effects of law enforcement in a social interaction model. Physica A: Statistical Mechanics and Its Applications, 2021, 567, 125725.	2.6	5
22	ANALYSIS OF MIXED WEYL–MARCHAUD FRACTIONAL DERIVATIVE AND BOX DIMENSIONS. Fractals, 2021, 29, 2150145.	3.7	21
23	Solvability for two dimensional functional integral equations via Petryshyn's fixed point theorem. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2021, 115, 1.	1.2	9
24	Approximation theorems for controllability problem governed by fractional differential equation. Evolution Equations and Control Theory, 2021, 10, 411-429.	1.3	9
25	Global existence and stability of Nicholson blowflies model with harvesting and random effect. Nonlinear Dynamics, 2021, 103, 2109-2123.	5.2	2
26	On the existence and Ulam-Hyers stability of a new class of partial (μ,ν)-fractional differential equations with impulses. Filomat, 2021, 35, 1977-1991.	0.5	5
27	Effect of population migration and punctuated lockdown on the spread of infectious diseases. Nonautonomous Dynamical Systems, 2021, 8, 251-266.	0.7	7
28	Discrete Fractional–Order BAM Neural Networks with Leakage Delay: Existence and Stability Results. Asian Journal of Control, 2020, 22, 143-155.	3.0	38
29	Optimal controls for second–order stochastic differential equations driven by mixed–fractional Brownian motion with impulses. Mathematical Methods in the Applied Sciences, 2020, 43, 4107.	2.3	27
30	Immunomodulatory role of black tea in the mitigation of cancer induced by inorganic arsenic. European Physical Journal Plus, 2020, 135, 1.	2.6	2
31	Intraspecific competition of predator for prey with variable rates in protected areas. Nonlinear Dynamics, 2020, 102, 511-535.	5.2	8
32	Periodic Solutions of the N-Preys and M-Predators Model with Variable Rates on Time Scales. Indian Journal of Pure and Applied Mathematics, 2020, 51, 945-967.	0.5	3
33	Doubly-weighted pseudo almost automorphic solutions for stochastic dynamic equations with Stepanov-like coefficients on time scales. Chaos, Solitons and Fractals, 2020, 137, 109899.	5.1	3
34	A generalized delta derivative on time scale with applications. Mathematical Methods in the Applied Sciences, 2020, 43, 9046-9079.	2.3	1
35	Maximal and minimal solutions of a class of discontinuous generalized dynamical equations with delay on time scale. Journal of Fixed Point Theory and Applications, 2020, 22, 1.	1.1	3
36	Permanence, existence, and stability of almost automorphic solution of a non-autonomous Leslie-Gower prey-predator model with control feedback terms on time scales. Mathematical Methods in the Applied Sciences, 2020, 44, 11783.	2.3	5

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37	Existence and Stability of Weighted Pseudo Almost Automorphic Solution of Dynamic Equation on Time Scales with Weighted Stepanov-Like ($$S^p$$) Pseudo Almost Automorphic Coefficients. Qualitative Theory of Dynamical Systems, 2020, 19, 1.	1.7	9
38	Proving the Extended Binomial Theorem Using Ordinary Differential Equations. Mathematics Magazine, 2020, 93, 33-35.	0.1	1
39	A modified analytical approach with existence and uniqueness for fractional Cauchy reaction–diffusion equations. Advances in Difference Equations, 2020, 2020, .	3.5	46
40	On optimal solutions of general continuous–singular stochastic control problem of McKean–Vlasov type. Mathematical Methods in the Applied Sciences, 2020, 43, 6498-6516.	2.3	3
41	Growth of tumor due to Arsenic and its mitigation by black tea in Swiss albino mice. AEJ - Alexandria Engineering Journal, 2020, 59, 1345-1357.	6.4	4
42	On Hyers–Ulam Mittag-Leffler stability of discrete fractional Duffing equation with application on inverted pendulum. Advances in Difference Equations, 2020, 2020, .	3.5	26
43	Square-mean almost automorphic solution of a stochastic cellular neural network on time scales. Journal of Integral Equations and Applications, 2020, 32, .	0.6	6
44	New oscillation criteria for p-Laplacian dynamic equations on time scales. Rocky Mountain Journal of Mathematics, 2020, 50, .	0.4	8
45	Some Oscillatory Results for Nonlinear Equation on Time Scales. Springer Proceedings in Mathematics and Statistics, 2020, , 413-432.	0.2	0
46	Dynamic equation on time scale with almost periodic coefficients. Nonautonomous Dynamical Systems, 2020, 7, 151-162.	0.7	0
47	Existence and stability of square-mean almost automorphic solution for neutral stochastic evolution equations with Stepanov-like terms on time scales. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2019, 113, 1231-1250.	1.2	13
48	Approximate and trajectory controllability of fractional neutral differential equation. Advances in Operator Theory, 2019, 4, 802-820.	0.6	8
49	Micro-structurally informed finite element analysis of carbon/carbon composites for effective thermal conductivity. Composite Structures, 2019, 226, 111221.	5.8	13
50	On almost periodicity of solutions of second-order differential equations involving reflection of the argument. Advances in Difference Equations, 2019, 2019, .	3.5	3
51	Qualitative analysis of a diffusive Crowley–Martin predator–prey model: the role of nonlinear predator harvesting. Nonlinear Dynamics, 2019, 98, 1169-1189.	5.2	17
52	Oscillation for a nonlinear neutral dynamic equations on time–scales with variable exponents. Mathematical Methods in the Applied Sciences, 2019, 42, 4146-4169.	2.3	5
53	Approximate Controllability of Sub-Diffusion Equation with Impulsive Condition. Mathematics, 2019, 7, 190.	2.2	7
54	On Peng's type maximum principle for optimal control of mean-field stochastic differential equations with jump processes. International Journal of Modelling, Identification and Control, 2019, 31, 245.	0.2	0

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55	An Analysis of a Randomized Local Search Algorithm for the Entropy Space. , 2019, , .		0
56	Periodic Solutions of a Nonautonomous Leslie-Gower Predator-Prey Model with Non-Linear Type Prey Harvesting on Time Scales. Differential Equations and Dynamical Systems, 2019, 27, 357-367.	1.0	4
57	Controllability of non-autonomous nonlinear differential system with non-instantaneous impulses. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2019, 113, 103-118.	1.2	20
58	Solvability and optimal controls of non-instantaneous impulsive stochastic neutral integro-differential equation driven by fractional Brownian motion. AIMS Mathematics, 2019, 4, 663-683.	1.6	16
59	Piecewise Continuous Stepanov-Like Almost Automorphic Functions with Applications to Impulsive Systems. , 2019, , 119-140.		0
60	Asymptotically Almost Automorphic Solution for Neutral Functional Integro Evolution Equations on Time Scales. Springer Proceedings in Mathematics and Statistics, 2019, , 113-127.	0.2	0
61	New oscillation criteria of special type second-order non-linear dynamic equations on time scales. Mathematical Sciences, 2018, 12, 25-39.	1.7	15
62	Stability and Bifurcation Analysis of Cellular Neural Networks with Discrete and Distributed Delays. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2018, 88, 325-337.	1.2	0
63	Global exponential stability of fractionalâ€order impulsive neural network with timeâ€varying and distributed delay. Mathematical Methods in the Applied Sciences, 2018, 41, 2095-2104.	2.3	32
64	Global asymptotic and exponential synchronization of ring neural network with reactionâ€"diffusion term and unbounded delay. Neural Computing and Applications, 2018, 30, 487-501.	5.6	11
65	A modified Leslieâ€"Gower predator-prey interaction model and parameter identifiability. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 331-346.	3.3	20
66	Oscillation Criteria of Singular Initial-Value Problem for Second Order Nonlinear Dynamic Equation on Time Scales. Nonautonomous Dynamical Systems, 2018, 5, 102-112.	0.7	8
67	Dynamical analysis of a predator-prey interaction model with time delay and prey refuge. Nonautonomous Dynamical Systems, 2018, 5, 138-151.	0.7	8
68	On Enumerating Distributions for Associated Vectors in the Entropy Space. , 2018, , .		5
69	Time-delay-induced instabilities and Hopf bifurcation analysis in 2-neuron network model with reactionâ€"diffusion term. Neurocomputing, 2018, 313, 306-315.	5.9	9
70	Global dynamics and parameter identifiability in a predator-prey interaction model. Nonautonomous Dynamical Systems, 2018, 5, 113-126.	0.7	1
71	Interaction between prey and mutually interfering predator in prey reserve habitat: Pattern formation and the Turingâ€"Hopf bifurcation. Journal of the Franklin Institute, 2018, 355, 7466-7489.	3.4	22
72	Square mean almost automorphic solution of stochastic evolution equations with impulses on time scales. Differential Equations and Applications, 2018, , 449-469.	0.4	2

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73	Uniform Euler approximation of solutions of fractional-order delayed cellular neural network on bounded intervals. Tbilisi Mathematical Journal, 2017, 10, .	0.3	5
74	Stability and synchronization of delayed fractional-order projection neural network with piecewise constant argument of mixed type. Tbilisi Mathematical Journal, 2017, 10, .	0.3	5
75	Dynamical analysis of a model of social behavior: Criminal vs non-criminal population. Chaos, Solitons and Fractals, 2017, 98, 121-129.	5.1	21
76	Approximation of Solutions of Fractional-Order Delayed Cellular Neural Network on		

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91	Existence and non-existence of spatial patterns in a ratio-dependent predator–prey model. Ecological Complexity, 2015, 21, 199-214.	2.9	45
92	A density dependent delayed predator–prey model with Beddington–DeAngelis type function response incorporating a prey refuge. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 427-450.	3.3	59
93	Dynamical analysis of a model of harmful algae in flowing habitats with variable rates. Nonlinear Analysis: Real World Applications, 2015, 22, 16-33.	1.7	2
94	PC-Almost Automorphic Solution of Impulsive Fractional Differential Equations. Mediterranean Journal of Mathematics, 2015, 12, 771-790.	0.8	15
95	Almost Automorphic Solutions of Impulsive Cellular Neural Networks with Piecewise Constant Argument. Neural Processing Letters, 2015, 42, 691-702.	3.2	15
96	Almost Periodicity of a Modified Leslie–Gower Predator–Prey System with Crowley–Martin Functional Response. Springer Proceedings in Mathematics and Statistics, 2015, , 309-317.	0.2	6
97	WEIGHTED PSEUDO ALMOST AUTOMORPHIC SOLUTIONS OF FRACTIONAL FUNCTIONAL DIFFERENTIAL EQUATIONS. Cubo, 2014, 16, 21-36.	0.5	8
98	Classroom. Resonance, 2014, 19, 840-845.	0.3	0
99	On Near-Optimal Mean-Field Stochastic Singular Controls: Necessary and Sufficient Conditions for Near-Optimality. Journal of Optimization Theory and Applications, 2014, 160, 778-808.	1.5	28
100	On mean-field stochastic maximum principle for near-optimal controls for Poisson jump diffusion with applications. International Journal of Dynamics and Control, 2014, 2, 262-284.	2.5	18
101	Dynamical analysis of the Irving–Mullineux oscillator equation of fractional order. Signal Processing, 2014, 102, 171-176.	3.7	16
102	On near-optimal necessary and sufficient conditions for forward-backward stochastic systems with jumps, with applications to finance. Applications of Mathematics, 2014, 59, 407-440.	0.9	13
103	Local and global stability analysis of a two prey one predator model with help. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3284-3297.	3.3	39
104	A comparative study of deterministic and stochastic dynamics for a non-autonomous allelopathic phytoplankton model. Applied Mathematics and Computation, 2014, 238, 300-318.	2.2	15
105	Asymptotic almost automorphic solutions of impulsive neural network with almost automorphic coefficients. Neurocomputing, 2014, 142, 326-334.	5.9	28
106	On necessary and sufficient conditions for near-optimal singular stochastic controls. Optimization Letters, 2013, 7, 949-966.	1.6	17
107	Stochastic Near-Optimal Singular Controls for Jump Diffusions: Necessary and Sufficient Conditions. Journal of Dynamical and Control Systems, 2013, 19, 503-517.	0.8	14
108	Existence and attractivity of k-almost automorphic sequence solution of a model of cellular neural networks with delay. Acta Mathematica Scientia, 2013, 33, 290-302.	1.0	39

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109	Analysis of Caputo Impulsive Fractional Order Differential Equations with Applications. International Journal of Differential Equations, 2013, 2013, 1-11.	0.8	9
110	Application of Mawhin's Coincidence Degree and Matrix Spectral Theory to a Delayed System. Abstract and Applied Analysis, 2012, 2012, 1-19.	0.7	3
111	Existence of almost periodic solution of a model of phytoplankton allelopathy with delay. , 2012, , .		3
112	Preface of the "Symposium on allelopathic phytoplankton model with stochastic perturbation". , 2012, , .		0
113	Stability analysis of two prey one predator model. , 2012, , .		12
114	Existence and uniqueness of solution of Caputo fractional differential equations. , 2012, , .		5
115	A note on Weyl pseudo almost automorphic functions and their properties. Mathematical Sciences, 2012, 6, 29.	1.7	7
116	On Maximum Principle of Near-optimality for Diffusions with Jumps, with Application to Consumption-Investment Problem. Differential Equations and Dynamical Systems, 2012, 20, 111-125.	1.0	17
117	Existence and Attractivity of k-Pseudo Almost Automorphic Sequence Solution of a Model of Bidirectional Neural Networks. Acta Applicandae Mathematicae, 2012, 119, 57-74.	1.0	13
118	Almost periodic solution ofÂa non-autonomous model ofÂphytoplankton allelopathy. Nonlinear Dynamics, 2012, 67, 203-214.	5.2	32
119	Pseudo almost automorphic solutions of some nonlinear integro-differential equations. Computers and Mathematics With Applications, 2011, 62, 2259-2272.	2.7	26
120	Dynamical analysis of fractional-order modified logistic model. Computers and Mathematics With Applications, 2011, 62, 1098-1104.	2.7	52
121	Pseudo almost automorphic solutions ofÂfractional order neutral differential equation. Semigroup Forum, 2010, 81, 393-404.	0.6	21
122	Existence, uniqueness and stability analysis of allelopathic stimulatory phytoplankton model. Journal of Mathematical Analysis and Applications, 2010, 367, 249-259.	1.0	48
123	Effect of stochastic perturbation on a two species competitive model. Nonlinear Analysis: Hybrid Systems, 2009, 3, 195-206.	3.5	9
124	Almost periodic solutions of neutral functional differential equations. Computers and Mathematics With Applications, 2008, 55, 2593-2601.	2.7	33
125	Almost periodic solutions of a functional differential equation by monotone iterative method. Differential Equations and Dynamical Systems, 2008, 16, 47-62.	1.0	2
126	Almost periodic solutions of nonlinear functional differential equations. Differential Equations and Dynamical Systems, 2008, 16, 289-308.	1.0	0

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127	Partial functional differential equation with an integral condition and applications to population dynamics. Nonlinear Analysis: Theory, Methods & Applications, 2008, 69, 2623-2635.	1.1	27
128	Law Enforcement: The key to a Crime-free Society. Journal of Mathematical Sociology, 0, , 1-18.	1.2	0
129	Second‐order oscillation of noncanonical functional dynamical equations on time scales. Mathematical Methods in the Applied Sciences, 0, , .	2.3	4
130	Oscillation of second-order non-canonical non-linear dynamic equations with a sub-linear neutral term. Differential Equations and Dynamical Systems, 0, , 1.	1.0	0
131	Analysis of steady state solutions to an age structured SEQIR model with optimal vaccination. Mathematical Methods in the Applied Sciences, 0, , .	2.3	0