

# Syed Abbas

## List of Publications by Year in descending order

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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	Global analysis of a delayed density dependent predator-prey model with Crowley-Martin functional response. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 30, 45-69.	3.3	102
2	Dynamical analysis of a prey-predator model with Beddington-DeAngelis type function response incorporating a prey refuge. <i>Nonlinear Dynamics</i> , 2015, 80, 177-196.	5.2	92
3	A density dependent delayed predator-prey model with Beddington-DeAngelis type function response incorporating a prey refuge. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 427-450.	3.3	59
4	Dynamical analysis of fractional-order modified logistic model. <i>Computers and Mathematics With Applications</i> , 2011, 62, 1098-1104.	2.7	52
5	Existence, uniqueness and stability analysis of allelopathic stimulatory phytoplankton model. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 367, 249-259.	1.0	48
6	A modified analytical approach with existence and uniqueness for fractional Cauchy reaction-diffusion equations. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	46
7	Existence and non-existence of spatial patterns in a ratio-dependent predator-prey model. <i>Ecological Complexity</i> , 2015, 21, 199-214.	2.9	45
8	Existence and attractivity of $k$ -almost automorphic sequence solution of a model of cellular neural networks with delay. <i>Acta Mathematica Scientia</i> , 2013, 33, 290-302.	1.0	39
9	Local and global stability analysis of a two prey one predator model with help. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 3284-3297.	3.3	39
10	Discrete Fractional-Order BAM Neural Networks with Leakage Delay: Existence and Stability Results. <i>Asian Journal of Control</i> , 2020, 22, 143-155.	3.0	38
11	Global dynamics of autonomous and nonautonomous SI epidemic models with nonlinear incidence rate and feedback controls. <i>Nonlinear Dynamics</i> , 2016, 86, 337-351.	5.2	37
12	Robust consensus of nonlinear multi-agent systems via reliable control with probabilistic time delay. <i>Complexity</i> , 2016, 21, 138-150.	1.6	35
13	Global Mittag-Leffler stability of complex valued fractional-order neural network with discrete and distributed delays. <i>Rendiconti Del Circolo Matematico Di Palermo</i> , 2016, 65, 485-505.	1.3	34
14	Almost periodic solutions of neutral functional differential equations. <i>Computers and Mathematics With Applications</i> , 2008, 55, 2593-2601.	2.7	33
15	Almost periodic solution of a non-autonomous model of phytoplankton allelopathy. <i>Nonlinear Dynamics</i> , 2012, 67, 203-214.	5.2	32
16	Global exponential stability of fractional-order impulsive neural network with time-varying and distributed delay. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 2095-2104.	2.3	32
17	Solvability and optimal controls of non-instantaneous impulsive stochastic fractional differential equation of order $q \in (1,2)$ . <i>Stochastics</i> , 2021, 93, 780-802.	1.1	31
18	On Near-Optimal Mean-Field Stochastic Singular Controls: Necessary and Sufficient Conditions for Near-Optimality. <i>Journal of Optimization Theory and Applications</i> , 2014, 160, 778-808.	1.5	28

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19	Asymptotic almost automorphic solutions of impulsive neural network with almost automorphic coefficients. <i>Neurocomputing</i> , 2014, 142, 326-334.	5.9	28
20	THE CALCULUS OF BIVARIATE FRACTAL INTERPOLATION SURFACES. <i>Fractals</i> , 2021, 29, 2150066.	3.7	28
21	Partial functional differential equation with an integral condition and applications to population dynamics. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2008, 69, 2623-2635.	1.1	27
22	Optimal controls for second-order stochastic differential equations driven by mixed fractional Brownian motion with impulses. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 4107.	2.3	27
23	Pseudo almost automorphic solutions of some nonlinear integro-differential equations. <i>Computers and Mathematics With Applications</i> , 2011, 62, 2259-2272.	2.7	26
24	On Hyers-Ulam Mittag-Leffler stability of discrete fractional Duffing equation with application on inverted pendulum. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	26
25	On Mean-Field Partial Information Maximum Principle of Optimal Control for Stochastic Systems with Lévy Processes. <i>Journal of Optimization Theory and Applications</i> , 2015, 167, 1051-1069.	1.5	25
26	Mathematical modeling and analysis for controlling the spread of infectious diseases. <i>Chaos, Solitons and Fractals</i> , 2021, 144, 110707.	5.1	24
27	Analysis of fractal dimension of mixed Riemann-Liouville integral. <i>Numerical Algorithms</i> , 2022, 91, 1021-1046.	1.9	24
28	Interaction between prey and mutually interfering predator in prey reserve habitat: Pattern formation and the Turing-Hopf bifurcation. <i>Journal of the Franklin Institute</i> , 2018, 355, 7466-7489.	3.4	22
29	Pseudo almost automorphic solutions of fractional order neutral differential equation. <i>Semigroup Forum</i> , 2010, 81, 393-404.	0.6	21
30	Dynamical analysis of a model of social behavior: Criminal vs non-criminal population. <i>Chaos, Solitons and Fractals</i> , 2017, 98, 121-129.	5.1	21
31	ANALYSIS OF MIXED WEYL-MARCHAUD FRACTIONAL DERIVATIVE AND BOX DIMENSIONS. <i>Fractals</i> , 2021, 29, 2150145.	3.7	21
32	Dynamical Study of Fractional Model of Allelopathic Stimulatory Phytoplankton Species. <i>Differential Equations and Dynamical Systems</i> , 2016, 24, 267-280.	1.0	20
33	A modified Leslie-Gower predator-prey interaction model and parameter identifiability. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 54, 331-346.	3.3	20
34	Controllability of non-autonomous nonlinear differential system with non-instantaneous impulses. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2019, 113, 103-118.	1.2	20
35	Approximate and trajectory controllability of fractional stochastic differential equation with non-instantaneous impulses and Poisson jumps. <i>Asian Journal of Control</i> , 2021, 23, 2669-2680.	3.0	20
36	On mean-field stochastic maximum principle for near-optimal controls for Poisson jump diffusion with applications. <i>International Journal of Dynamics and Control</i> , 2014, 2, 262-284.	2.5	18

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37	On Maximum Principle of Near-optimality for Diffusions with Jumps, with Application to Consumption-Investment Problem. <i>Differential Equations and Dynamical Systems</i> , 2012, 20, 111-125.	1.0	17
38	On necessary and sufficient conditions for near-optimal singular stochastic controls. <i>Optimization Letters</i> , 2013, 7, 949-966.	1.6	17
39	On partial-information optimal singular control problem for mean-field stochastic differential equations driven by Teugels martingales measures. <i>International Journal of Control</i> , 2016, 89, 397-410.	1.9	17
40	Qualitative analysis of a diffusive Crowleyâ€“Martin predatorâ€“prey model: the role of nonlinear predator harvesting. <i>Nonlinear Dynamics</i> , 2019, 98, 1169-1189.	5.2	17
41	Dynamical analysis of the Irvingâ€“Mullineux oscillator equation of fractional order. <i>Signal Processing</i> , 2014, 102, 171-176.	3.7	16
42	Solvability and optimal controls of non-instantaneous impulsive stochastic neutral integro-differential equation driven by fractional Brownian motion. <i>AIMS Mathematics</i> , 2019, 4, 663-683.	1.6	16
43	Stability and bifurcation analysis of a fractionalâ€“order model of cellâ€“toâ€“cell spread of HIVâ€“1 with a discrete time delay. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 7081-7095.	2.3	16
44	A comparative study of deterministic and stochastic dynamics for a non-autonomous allelopathic phytoplankton model. <i>Applied Mathematics and Computation</i> , 2014, 238, 300-318.	2.2	15
45	PC-Almost Automorphic Solution of Impulsive Fractional Differential Equations. <i>Mediterranean Journal of Mathematics</i> , 2015, 12, 771-790.	0.8	15
46	Almost Automorphic Solutions of Impulsive Cellular Neural Networks with Piecewise Constant Argument. <i>Neural Processing Letters</i> , 2015, 42, 691-702.	3.2	15
47	Effect of Peierls stress and strain-hardening parameters on EMR emission in metals and alloys during progressive plastic deformation. <i>International Journal of Materials Research</i> , 2016, 107, 503-517.	0.3	15
48	New oscillation criteria of special type second-order non-linear dynamic equations on time scales. <i>Mathematical Sciences</i> , 2018, 12, 25-39.	1.7	15
49	Box dimension of mixed Katugampola fractional integral of two-dimensional continuous functions. <i>Fractional Calculus and Applied Analysis</i> , 2022, 25, 1022-1036.	2.2	15
50	Stochastic Near-Optimal Singular Controls for Jump Diffusions: Necessary and Sufficient Conditions. <i>Journal of Dynamical and Control Systems</i> , 2013, 19, 503-517.	0.8	14
51	Existence and Attractivity of k-Pseudo Almost Automorphic Sequence Solution of a Model of Bidirectional Neural Networks. <i>Acta Applicandae Mathematicae</i> , 2012, 119, 57-74.	1.0	13
52	On near-optimal necessary and sufficient conditions for forward-backward stochastic systems with jumps, with applications to finance. <i>Applications of Mathematics</i> , 2014, 59, 407-440.	0.9	13
53	Existence and stability of square-mean almost automorphic solution for neutral stochastic evolution equations with Stepanov-like terms on time scales. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2019, 113, 1231-1250.	1.2	13
54	Micro-structurally informed finite element analysis of carbon/carbon composites for effective thermal conductivity. <i>Composite Structures</i> , 2019, 226, 111221.	5.8	13

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55	Approximate Controllability for a Class of Non-instantaneous Impulsive Stochastic Fractional Differential Equation Driven by Fractional Brownian Motion. <i>Differential Equations and Dynamical Systems</i> , 2021, 29, 175-191.	1.0	13
56	Stability analysis of two prey one predator model. , 2012, , .		12
57	Existence, stability and controllability results of stochastic differential equations with non-instantaneous impulses. <i>International Journal of Control</i> , 2022, 95, 1719-1730.	1.9	12
58	Stepanov-like weighted pseudo almost automorphic solutions to fractional order abstract integro-differential equations. <i>Proceedings of the Indian Academy of Sciences: Mathematical Sciences</i> , 2015, 125, 323-351.	0.1	11
59	Global asymptotic and exponential synchronization of ring neural network with reactionâ€“diffusion term and unbounded delay. <i>Neural Computing and Applications</i> , 2018, 30, 487-501.	5.6	11
60	Global dynamics of an age-structured model for HIV viral dynamics with latently infected T cells. <i>Mathematics and Computers in Simulation</i> , 2022, 198, 237-252.	4.4	11
61	Effect of strain hardening on the electromagnetic radiation during plastic deformation of metals and alloys beyond yield point. <i>Nonlinear Dynamics</i> , 2016, 85, 2687-2704.	5.2	10
62	Approximation of Solutions of Fractional-Order Delayed Cellular Neural Network on		

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73	Approximate and trajectory controllability of fractional neutral differential equation. <i>Advances in Operator Theory</i> , 2019, 4, 802-820.	0.6	8
74	Intraspecific competition of predator for prey with variable rates in protected areas. <i>Nonlinear Dynamics</i> , 2020, 102, 511-535.	5.2	8
75	Analysis of infectious disease transmission and prediction through SEIQR epidemic model. <i>Nonautonomous Dynamical Systems</i> , 2021, 8, 75-86.	0.7	8
76	New oscillation criteria for $p$ -Laplacian dynamic equations on time scales. <i>Rocky Mountain Journal of Mathematics</i> , 2020, 50, .	0.4	8
77	A note on Weyl pseudo almost automorphic functions and their properties. <i>Mathematical Sciences</i> , 2012, 6, 29.	1.7	7
78	Approximate Controllability of Sub-Diffusion Equation with Impulsive Condition. <i>Mathematics</i> , 2019, 7, 190.	2.2	7
79	Pseudo compact almost automorphic solutions for a family of delayed population model of Nicholson type. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 495, 124722.	1.0	7
80	Effect of population migration and punctuated lockdown on the spread of infectious diseases. <i>Nonautonomous Dynamical Systems</i> , 2021, 8, 251-266.	0.7	7
81	Asymptotically Almost Automorphic Solutions of Fractional Order Neutral Integro-Differential Equations. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2016, 39, 1075-1088.	0.9	6
82	Almost Periodicity of a Modified Leslie-Gower Predator-Prey System with Crowley-Martin Functional Response. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015, , 309-317.	0.2	6
83	Square-mean almost automorphic solution of a stochastic cellular neural network on time scales. <i>Journal of Integral Equations and Applications</i> , 2020, 32, .	0.6	6
84	Existence and uniqueness of solution of Caputo fractional differential equations. , 2012, , .		5
85	Uniform Euler approximation of solutions of fractional-order delayed cellular neural network on bounded intervals. <i>Tbilisi Mathematical Journal</i> , 2017, 10, .	0.3	5
86	Stability and synchronization of delayed fractional-order projection neural network with piecewise constant argument of mixed type. <i>Tbilisi Mathematical Journal</i> , 2017, 10, .	0.3	5
87	On Enumerating Distributions for Associated Vectors in the Entropy Space. , 2018, , .		5
88	Oscillation for a nonlinear neutral dynamic equations on time scales with variable exponents. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 4146-4169.	2.3	5
89	Permanence, existence, and stability of almost automorphic solution of a non-autonomous Leslie-Gower prey-predator model with control feedback terms on time scales. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 44, 11783.	2.3	5
90	Dynamical analysis and effects of law enforcement in a social interaction model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 567, 125725.	2.6	5

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91	On the existence and Ulam-Hyers stability of a new class of partial $(\hat{I}, \hat{I}^*)$ -fractional differential equations with impulses. <i>Filomat</i> , 2021, 35, 1977-1991.	0.5	5
92	Golden ratio. <i>Resonance</i> , 2017, 22, 51-60.	0.3	4
93	Periodic Solutions of a Nonautonomous Leslie-Gower Predator-Prey Model with Non-Linear Type Prey Harvesting on Time Scales. <i>Differential Equations and Dynamical Systems</i> , 2019, 27, 357-367.	1.0	4
94	Growth of tumor due to Arsenic and its mitigation by black tea in Swiss albino mice. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 1345-1357.	6.4	4
95	Second-order oscillation of noncanonical functional dynamical equations on time scales. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	2.3	4
96	Oscillation Criteria of Second-Order Non-Linear Dynamic Equations with Integro Forcing Term on Time Scales. <i>Bulletin of the South Ural State University, Series: Mathematical Modelling, Programming and Computer Software</i> , 2017, 10, 35-47.	0.4	4
97	Application of Mawhin's Coincidence Degree and Matrix Spectral Theory to a Delayed System. <i>Abstract and Applied Analysis</i> , 2012, 2012, 1-19.	0.7	3
98	Existence of almost periodic solution of a model of phytoplankton allelopathy with delay. , 2012, , .		3
99	On almost periodicity of solutions of second-order differential equations involving reflection of the argument. <i>Advances in Difference Equations</i> , 2019, 2019, .	3.5	3
100	Periodic Solutions of the N-Preys and M-Predators Model with Variable Rates on Time Scales. <i>Indian Journal of Pure and Applied Mathematics</i> , 2020, 51, 945-967.	0.5	3
101	Doubly-weighted pseudo almost automorphic solutions for stochastic dynamic equations with Stepanov-like coefficients on time scales. <i>Chaos, Solitons and Fractals</i> , 2020, 137, 109899.	5.1	3
102	Maximal and minimal solutions of a class of discontinuous generalized dynamical equations with delay on time scale. <i>Journal of Fixed Point Theory and Applications</i> , 2020, 22, 1.	1.1	3
103	On optimal solutions of general continuous-singular stochastic control problem of McKean-Vlasov type. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 6498-6516.	2.3	3
104	Stability and approximation of almost automorphic solutions on time scales for the stochastic Nicholson's blowflies model. <i>Journal of Integral Equations and Applications</i> , 2021, 33, .	0.6	3
105	Second-order oscillation of non-canonical functional dynamical equations on time scales. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 9292-9301.	2.3	3
106	Almost periodic solutions of a functional differential equation by monotone iterative method. <i>Differential Equations and Dynamical Systems</i> , 2008, 16, 47-62.	1.0	2
107	Dynamical analysis of a model of harmful algae in flowing habitats with variable rates. <i>Nonlinear Analysis: Real World Applications</i> , 2015, 22, 16-33.	1.7	2
108	Immunomodulatory role of black tea in the mitigation of cancer induced by inorganic arsenic. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	2

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109	Inner Bounds for the Almost Entropic Region and Network Code Construction. IEEE Transactions on Communications, 2021, 69, 19-30.	7.8	2
110	New oscillatory results for non-linear delay dynamic equations with super-linear neutral term. Applied Mathematics and Computation, 2022, 412, 126576.	2.2	2
111	Global existence and stability of Nicholson blowflies model with harvesting and random effect. Nonlinear Dynamics, 2021, 103, 2109-2123.	5.2	2
112	Square mean almost automorphic solution of stochastic evolution equations with impulses on time scales. Differential Equations and Applications, 2018, , 449-469.	0.4	2
113	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
114	Global dynamics and parameter identifiability in a predator-prey interaction model. Nonautonomous Dynamical Systems, 2018, 5, 113-126.	0.7	1
115	A generalized delta derivative on time scale with applications. Mathematical Methods in the Applied Sciences, 2020, 43, 9046-9079.	2.3	1
116	Proving the Extended Binomial Theorem Using Ordinary Differential Equations. Mathematics Magazine, 2020, 93, 33-35.	0.1	1
117	On stability analysis of hybrid fractional boundary value problem. Indian Journal of Pure and Applied Mathematics, 2021, 52, 27-38.	0.5	1
118	Diffusive size-structured population model with time-varying diffusion rate. Discrete and Continuous Dynamical Systems - Series B, 2022, .	0.9	1
119	Almost periodic solutions of nonlinear functional differential equations. Differential Equations and Dynamical Systems, 2008, 16, 289-308.	1.0	0
120	Preface of the "Symposium on allelopathic phytoplankton model with stochastic perturbation". , 2012, , .		0
121	Classroom. Resonance, 2014, 19, 840-845.	0.3	0
122	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
123	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
124	An Analysis of a Randomized Local Search Algorithm for the Entropy Space. , 2019, , .		0
125	Law Enforcement: The key to a Crime-free Society. Journal of Mathematical Sociology, 0, , 1-18.	1.2	0
126	Piecewise Continuous Stepanov-Like Almost Automorphic Functions with Applications to Impulsive Systems. , 2019, , 119-140.		0



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127	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
128	Some Oscillatory Results for Nonlinear Equation on Time Scales. Springer Proceedings in Mathematics and Statistics, 2020, , 413-432.	0.2	0
129	Dynamic equation on time scale with almost periodic coefficients. Nonautonomous Dynamical Systems, 2020, 7, 151-162.	0.7	0
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