

Amin Jajarmi

List of Publications by Year in descending order

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58
papers

4,347
citations

87723

38
h-index

161609

54
g-index

58
all docs

58
docs citations

58
times ranked

1636
citing authors

#	ARTICLE	IF	CITATIONS
1	A new study on the mathematical modelling of human liver with Caputo's fractional derivative. Chaos, Solitons and Fractals, 2020, 134, 109705.	2.5	534
2	A new fractional model and optimal control of a tumor-immune surveillance with non-singular derivative operator. Chaos, 2019, 29, 083127.	1.0	211
3	A new fractional analysis on the interaction of HIV with $CD4^+$ T-cells. Chaos, Solitons and Fractals, 2018, 113, 221-229.	2.5	174
4	A new adaptive synchronization and hyperchaos control of a biological snap oscillator. Chaos, Solitons and Fractals, 2020, 138, 109919.	2.5	149
5	A new fractional modelling and control strategy for the outbreak of dengue fever. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122524.	1.2	148
6	A new and efficient numerical method for the fractional modeling and optimal control of diabetes and tuberculosis co-existence. Chaos, 2019, 29, 093111.	1.0	146
7	A new comparative study on the general fractional model of COVID-19 with isolation and quarantine effects. AEJ - Alexandria Engineering Journal, 2022, 61, 4779-4791.	3.4	136
8	On an accurate discretization of a variable-order fractional reaction-diffusion equation. Communications in Nonlinear Science and Numerical Simulation, 2019, 69, 119-133.	1.7	133
9	On the nonlinear dynamical systems within the generalized fractional derivatives with Mittag-Leffler kernel. Nonlinear Dynamics, 2018, 94, 397-414.	2.7	132
10	On the fractional optimal control problems with a general derivative operator. Asian Journal of Control, 2021, 23, 1062-1071.	1.9	124
11	The fractional features of a harmonic oscillator with position-dependent mass. Communications in Theoretical Physics, 2020, 72, 055002.	1.1	122
12	A general fractional formulation and tracking control for immunogenic tumor dynamics. Mathematical Methods in the Applied Sciences, 2022, 45, 667-680.	1.2	113
13	A new fractional HRSV model and its optimal control: A non-singular operator approach. Physica A: Statistical Mechanics and Its Applications, 2020, 547, 123860.	1.2	109
14	A New Iterative Method for the Numerical Solution of High-Order Non-linear Fractional Boundary Value Problems. Frontiers in Physics, 2020, 8, .	1.0	106
15	Novel Fractional-Order Lagrangian to Describe Motion of Beam on Nanowire. Acta Physica Polonica A, 2021, 140, 265-272.	0.2	104
16	On a new and generalized fractional model for a real cholera outbreak. AEJ - Alexandria Engineering Journal, 2022, 61, 9175-9186.	3.4	104
17	Hyperchaotic behaviors, optimal control, and synchronization of a nonautonomous cardiac conduction system. Advances in Difference Equations, 2021, 2021, .	3.5	98
18	A new and general fractional Lagrangian approach: A capacitor microphone case study. Results in Physics, 2021, 31, 104950.	2.0	91

#	ARTICLE	IF	CITATIONS
19	A nonstandard finite difference scheme for the modeling and nonidentical synchronization of a novel fractional chaotic system. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	89
20	New aspects of the adaptive synchronization and hyperchaos suppression of a financial model. <i>Chaos, Solitons and Fractals</i> , 2017, 99, 285-296.	2.5	88
21	A New Feature of the Fractional Euler-Lagrange Equations for a Coupled Oscillator Using a Nonsingular Operator Approach. <i>Frontiers in Physics</i> , 2019, 7, .	1.0	88
22	On a nonlinear dynamical system with both chaotic and nonchaotic behaviors: a new fractional analysis and control. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	86
23	Suboptimal control of fractional-order dynamic systems with delay argument. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 2430-2446.	1.5	83
24	New aspects of poor nutrition in the life cycle within the fractional calculus. <i>Advances in Difference Equations</i> , 2018, 2018, .	3.5	83
25	New features of the fractional Euler-Lagrange equations for a physical system within non-singular derivative operator. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	82
26	Positivity-preserving sixth-order implicit finite difference weighted essentially non-oscillatory scheme for the nonlinear heat equation. <i>Applied Mathematics and Computation</i> , 2018, 325, 146-158.	1.4	75
27	A New Formulation of the Fractional Optimal Control Problems Involving Mittag-Leffler Nonsingular Kernel. <i>Journal of Optimization Theory and Applications</i> , 2017, 175, 718-737.	0.8	74
28	A new mathematical model for Zika virus transmission. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	73
29	Analysis and some applications of a regularized Γ -Hilfer fractional derivative. <i>Journal of Computational and Applied Mathematics</i> , 2022, 415, 114476.	1.1	72
30	On the accurate discretization of a highly nonlinear boundary value problem. <i>Numerical Algorithms</i> , 2018, 79, 679-695.	1.1	71
31	The Motion of a Bead Sliding on a Wire in Fractional Sense. <i>Acta Physica Polonica A</i> , 2017, 131, 1561-1564.	0.2	69
32	Infinite horizon optimal control for nonlinear interconnected large-scale dynamical systems with an application to optimal attitude control. <i>Asian Journal of Control</i> , 2012, 14, 1239-1250.	1.9	65
33	A new approach for the nonlinear fractional optimal control problems with external persistent disturbances. <i>Journal of the Franklin Institute</i> , 2018, 355, 3938-3967.	1.9	61
34	An Efficient Nonstandard Finite Difference Scheme for a Class of Fractional Chaotic Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2018, 13, .	0.7	59
35	Hyperchaos control of the hyperchaotic Chen system by optimal control design. <i>Nonlinear Dynamics</i> , 2013, 73, 499-508.	2.7	53
36	An efficient recursive shooting method for the optimal control of time-varying systems with state time-delay. <i>Applied Mathematical Modelling</i> , 2016, 40, 2756-2769.	2.2	53

#	ARTICLE	IF	CITATIONS
37	New aspects of time fractional optimal control problems within operators with nonsingular kernel. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2020, 13, 407-428.	0.6	45
38	Planar System-Masses in an Equilateral Triangle: Numerical Study within Fractional Calculus. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2020, 124, 953-968.	0.8	44
39	On the fractional SIRD mathematical model and control for the transmission of COVID-19: The first and the second waves of the disease in Iran and Japan. <i>ISA Transactions</i> , 2022, 124, 103-114.	3.1	29
40	An Efficient Finite Difference Method for The Time- ϵ Delay Optimal Control Problems With Time-Varying Delay. <i>Asian Journal of Control</i> , 2017, 19, 554-563.	1.9	28
41	Solving infinite horizon nonlinear optimal control problems using an extended modal series method. <i>Journal of Zhejiang University: Science C</i> , 2011, 12, 667-677.	0.7	23
42	A new approach for the optimal control of time-varying delay systems with external persistent matched disturbances. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 4505-4512.	1.5	16
43	An off-line NMPC strategy for continuous-time nonlinear systems using an extended modal series method. <i>Nonlinear Dynamics</i> , 2014, 78, 2651-2674.	2.7	15
44	A hybrid functions numerical scheme for fractional optimal control problems: Application to nonanalytic dynamic systems. <i>JVC/Journal of Vibration and Control</i> , 0, , 107754631774176.	1.5	15
45	A robust and accurate disturbance damping control design for nonlinear dynamical systems. <i>Optimal Control Applications and Methods</i> , 2019, 40, 375-393.	1.3	15
46	Optimal control of nonlinear dynamical systems based on a new parallel eigenvalue decomposition approach. <i>Optimal Control Applications and Methods</i> , 2018, 39, 1071-1083.	1.3	13
47	Numerical solution of the state-delayed optimal control problems by a fast and accurate finite difference \hat{I}_α -method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 55, 265-276.	1.7	8
48	A global linearization approach to solve nonlinear nonsmooth constrained programming problems. <i>Computational and Applied Mathematics</i> , 2011, 30, 427-443.	1.0	7
49	A novel feedforward "feedback suboptimal control of linear time-delay systems. <i>Journal of Complexity</i> , 2016, 35, 46-62.	0.7	7
50	A highly computational efficient method to solve nonlinear optimal control problems. <i>Scientia Iranica</i> , 2012, 19, 759-766.	0.3	6
51	An efficient numerical method for the optimal control of fractional-order dynamic systems. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 5312-5320.	1.5	6
52	Solving a System of Fractional-Order Volterra-Fredholm Integro-Differential Equations with Weakly Singular Kernels via the Second Chebyshev Wavelets Method. <i>Fractal and Fractional</i> , 2021, 5, 70.	1.6	6
53	An efficient parallel processing optimal control scheme for a class of nonlinear composite systems. <i>Acta Mathematica Scientia</i> , 2017, 37, 703-721.	0.5	3
54	An efficient iterative eigenvalue decomposition approach for the optimal control of time-delay systems. <i>IMA Journal of Mathematical Control and Information</i> , 2018, 35, 987-1004.	1.1	2

#	ARTICLE	IF	CITATIONS
55	A new switched offline NMPC approach for nonlinear systems with a switching performance index using an extended modal series method. Optimal Control Applications and Methods, 2018, 39, 1935-1951.	1.3	1
56	Sufficient conditions for stabilizability of switched linear systems with sub-optimal convergence rate. , 2009, , .		0
57	Optimal disturbance rejection with zero steady-state error for nonlinear systems with sinusoidal disturbances. , 2016, , .		0
58	On a New and Efficient Numerical Technique to Solve a Class of Discrete-time Nonlinear Optimal Control Problems. Journal European Des Systemes Automatisees, 2019, 52, 305-316.	0.3	0