Carla M A Pinto

List of Publications by Year
in descending order

114 papers	1,417 citations	430843 18 h-index	377849 34 g-index
116 all docs	116 docs citations	116 times ranked	979 citing authors

#	Article	IF	Citations
1	A review of power laws in real life phenomena. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 3558-3578.	3.3	119
2	A latency fractional order model for HIV dynamics. Journal of Computational and Applied Mathematics, 2017, 312, 240-256.	2.0	94
3	Central pattern generators for bipedal locomotion. Journal of Mathematical Biology, 2006, 53, 474-489.	1.9	87
4	Fractional model for malaria transmission under control strategies. Computers and Mathematics With Applications, 2013, 66, 908-916.	2.7	87
5	A delay fractional order model for the co-infection of malaria and HIV/AIDS. International Journal of Dynamics and Control, 2017, 5, 168-186.	2.5	86
6	HIV/HCV coinfection model: a fractional-order perspective for the effect of the HIV viral load. Advances in Difference Equations, 2018, 2018, .	3.5	65
7	Complex order van der Pol oscillator. Nonlinear Dynamics, 2011, 65, 247-254.	5.2	57
8	Fractional dynamics and MDS visualization of earthquake phenomena. Computers and Mathematics With Applications, 2013, 66, 647-658.	2.7	52
9	New findings on the dynamics of HIV and TB coinfection models. Applied Mathematics and Computation, 2014, 242, 36-46.	2.2	46
10	Fractional complex-order model for HIV infection with drug resistance during therapy. JVC/Journal of Vibration and Control, 2016, 22, 2222-2239.	2.6	39
11	The role of synaptic transmission in a HIV model with memory. Applied Mathematics and Computation, 2017, 292, 76-95.	2.2	35
12	Non-integer order analysis of the impact of diabetes and resistant strains in a model for TB infection. Communications in Nonlinear Science and Numerical Simulation, 2018, 61, 104-126.	3.3	35
13	The HIV/TB coinfection severity in the presence of TB multi-drug resistant strains. Ecological Complexity, 2017, 32, 1-20.	2.9	33
14	Complex-order forced van der Pol oscillator. JVC/Journal of Vibration and Control, 2012, 18, 2201-2209.	2.6	29
15	Diabetes mellitus and TB co-existence: Clinical implications from a fractional order modelling. Applied Mathematical Modelling, 2019, 68, 219-243.	4.2	28
16	A brainstem-like modulation approach for gait transition in a quadruped robot. , 2009, , .		26
17	Fractional central pattern generators for bipedal locomotion. Nonlinear Dynamics, 2010, 62, 27-37.	5.2	22
18	A coinfection model for HIV and HCV. BioSystems, 2014, 124, 46-60.	2.0	22

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19	Emergence of drug-resistance in HIV dynamics under distinct HAART regimes. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 207-226.	3.3	22
20	Double power laws, fractals and self-similarity. Applied Mathematical Modelling, 2014, 38, 4019-4026.	4.2	19
21	The effect of aggressive chemotherapy in a model for HIV/AIDS-cancer dynamics. Communications in Nonlinear Science and Numerical Simulation, 2019, 75, 109-120.	3.3	18
22	A review on the characterization of signals and systems by power law distributions. Signal Processing, 2015, 107, 246-253.	3.7	17
23	COMPLEX ORDER BIPED RHYTHMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 3053-3061.	1.7	16
24	Fractional Dynamics of Computer Virus Propagation. Mathematical Problems in Engineering, 2014, 2014, 1-7.	1.1	16
25	The impact of pre-exposure prophylaxis (PrEP) and screening on the dynamics of HIV. Journal of Computational and Applied Mathematics, 2018, 339, 231-244.	2.0	16
26	Time-varying pharmacodynamics in a simple non-integer HIV infection model. Mathematical Biosciences, 2019, 307, 1-12.	1.9	14
27	Persistence of low levels of plasma viremia and of the latent reservoir in patients under ART: A fractional-order approach. Communications in Nonlinear Science and Numerical Simulation, 2017, 43, 251-260.	3.3	13
28	Immune response in HIV epidemics for distinct transmission rates and for saturated CTL response. Mathematical Modelling of Natural Phenomena, 2019, 14, 307.	2.4	13
29	Symmetry and order parameter dynamics of the human odometer. Biological Cybernetics, 2015, 109, 63-73.	1.3	12
30	The role of education on the acquisition of 21st century soft skills by Engineering students. , 2018, , .		12
31	Analyzing the Implementation of Lean Methodologies and Practices in the Portuguese Industry: A Survey. Sustainability, 2022, 14, 1929.	3.2	12
32	Quasi-periodic states in coupled rings of cells. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1048-1062.	3.3	11
33	Multidimensional scaling visualization of earthquake phenomena. Journal of Seismology, 2014, 18, 163-179.	1.3	11
34	Strange Dynamics in a Fractional Derivative of Complex-Order Network of Chaotic Oscillators. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550003.	1.7	11
35	Efficacy of the Post-Exposure Prophylaxis and of the HIV Latent Reservoir in HIV Infection. Mathematics, 2019, 7, 515.	2.2	11
36	Modelling gait transition in two-legged animals. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 4625-4631.	3.3	10

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37	Stability of quadruped robots' trajectories subjected to discrete perturbations. Nonlinear Dynamics, 2012, 70, 2089-2094.	5.2	10
38	Power Law and Entropy Analysis of Catastrophic Phenomena. Mathematical Problems in Engineering, 2013, 2013, 1-10.	1.1	10
39	Fractional Dynamics of an Infection Model With Time-Varying Drug Exposure. Journal of Computational and Nonlinear Dynamics, 2018, 13, .	1.2	10
40	Mathematical model for HIV dynamics in HIV-specific helper cells. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 693-701.	3.3	9
41	EFFECTS OF TREATMENT, AWARENESS AND CONDOM USE IN A COINFECTION MODEL FOR HIV AND HCV IN MSM. Journal of Biological Systems, 2015, 23, 165-193.	1.4	9
42	Best teaching practices in the first year of the pilot implementation of the project DrIVE-MATH. Teaching Mathematics and Its Applications, 2019, 38, 154-166.	0.8	9
43	Numerical Simulations in Two CPG Models for Bipedal Locomotion. JVC/Journal of Vibration and Control, 2007, 13, 1487-1503.	2.6	8
44	Effect of drug-resistance in a fractional complex-order model for HIV infection. IFAC-PapersOnLine, 2015, 48, 188-189.	0.9	8
45	Loss of synchronization in partially coupled Hodgkin–Huxley equations. Bulletin of Mathematical Biology, 2004, 66, 539-557.	1.9	7
46	A new mathematical model for co-infection of malaria and HIV. , 2012, , .		7
47	ACTIVE LEARNING: SELF-MOTIVATION IN MATH COURSES. INTED Proceedings, 2018, , .	0.0	7
48	Maintenance of the latent reservoir by pyroptosis and superinfection in a fractional order HIV transmission model. International Journal of Optimization and Control: Theories and Applications, 2019, 9, 69-75.	1.7	6
49	Equivalence of Human Odometry by Walk and Run Is Indifferent to Self-Selected Speed. Journal of Motor Behavior, 2012, 44, 47-52.	0.9	5
50	Within-host and synaptic transmissions: contributions to the spread of HIV infection. Mathematical Methods in the Applied Sciences, 2017, 40, 1231-1264.	2.3	5
51	New developments on AIDS-related cancers: The role of the delay and treatment options. Mathematical Methods in the Applied Sciences, 2018, 41, 8915-8928.	2.3	5
52	COLLABORATIVE NETWORKING FOR EDUCATIONAL INNOVATION IN MATH COURSES – PROJECT DRIVE-MATH. , 2018, , .		5
53	TRENDS OF ACTIVE-LEARNING TEACHING PRACTICES AMONG ENGINEERING STUDENTS. , 2020, , .		5
54	EXOTIC DYNAMICS IN NETWORKS OF COUPLED RINGS OF CELLS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250064.	1.7	4

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55	Assessment practices in higher education: a case study. , 2020, , .		4
56	Analysis of a Non-integer Order Model for the Coinfection of HIV and HSV-2. International Journal of Nonlinear Sciences and Numerical Simulation, 2020, 21, 291-302.	1.0	4
57	Modified SIQR model for the COVIDâ€19 outbreak in several countries. Mathematical Methods in the Applied Sciences, 2022, , .	2.3	4
58	A New CPG Model for the Generation of Modular Trajectories for Hexapod Robots. , 2011, , .		3
59	Stochastic model for HIV dynamics in HIV specific helper cells. IFAC-PapersOnLine, 2015, 48, 184-185.	0.9	3
60	A note on fractional feedâ€forward networks. Mathematical Methods in the Applied Sciences, 2017, 40, 6133-6137.	2.3	3
61	The burden of the HIV viral load and of cell-to-cell spread in HIV/HCV coinfection. IFAC-PapersOnLine, 2018, 51, 367-372.	0.9	3
62	Adaptation to emergency remote teaching by students with distinct ICT backgrounds. , 2021, , .		3
63	IMPACT OF A NEW TEACHING FRAMEWORK FOR MATH COURSES IN HIGHER EDUCATION. , 2018, , .		3
64	Laboratory diagnosis of chronic kidney disease in adults: an overview of hospitals inserted in the Portuguese National Health System. Jornal Brasileiro De Patologia E Medicina Laboratorial, 2017, 53, .	0.3	3
65	EDUCATION BY CHALLENGE: INNOVATION DRIVEN SPIRIT. INTED Proceedings, 2019, , .	0.0	3
66	MOTIVATING ENGINEERING STUDENTS TO LEARN MATH: HINTS FROM A CALCULUS COURSE. , 2020, , .		3
67	Fractional Model for Type 1 Diabetes. Advances in Dynamics, Patterns, Cognition, 2020, , 175-185.	0.3	3
68	IS COVID-19 SHAPING OUR STUDENTS' LEARNING PROCESS?. , 2020, , .		3
69	Role of the Immune System in AIDS-defining Malignancies. Springer Proceedings in Mathematics and Statistics, 2022, , 95-105.	0.2	3
70	Fractional Model for Malaria Disease. , 2013, , .		2
71	Exciting dynamical behavior in a network of two coupled rings of Chen oscillators. Nonlinear Dynamics, 2014, 78, 1245-1259.	5.2	2
72	ONLINE MATH COURSES: ADVANTAGES AND OBSTACLES IN AN INFORMATICS BACCALAUREATE. , 2021, , .		2

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73	Editorial note on the special issue: â€˜â€˜Fractional calculus models for the dynamics of complex systemsâ€•. Journal of Advanced Research, 2021, 32, A1-A3.	9.5	2
74	INDUSTRY 5.0 EXPECTATIONS OF ENGINEERING CRITICAL THINKING. , 2020, , .		2
75	A model for type I diabetes in an HIV-infected patient under highly active antiretroviral therapy. Chaos, Solitons and Fractals, 2022, 155, 111716.	5.1	2
76	Two Coupled Neurons. , 2006, , .		1
77	A Modular Approach for Trajectory Generation in Biped Robots. , 2011, , .		1
78	Fractional dynamics of a model for HIV and TB coinfection. , 2014, , .		1
79	Modeling the dynamics of the three stages of HIV infection. IFAC-PapersOnLine, 2015, 48, 190-191.	0.9	1
80	The effect of noise intensity in a stochastic model for HIV-specific helper cells. IFAC-PapersOnLine, 2015, 48, 186-187.	0.9	1
81	Strange patterns in one ring of Chen oscillators coupled to a â€˜bufferâ€™ cell. JVC/Journal of Vibration and Control, 2016, 22, 3267-3295.	2.6	1
82	ENGINEERING STUDENTSÂ´ AWARENESS OF THEIR PRESENT AND FUTURE PROFESSIONAL EXPERTISES. , 2020, , .		1
83	Use of Hands-on and Remote Lab with an Inquiry-Based Approach to Learn Statistics in Engineering. , 2021, , .		1
84	In memory of Professor JosÃ© AntÃ³nio Tenreiro Machado (1957â€"2021). Nonlinear Dynamics, 2022, 107, 1791-1800.	5.2	1
85	DriVE-MATH: Reimagining Education. Open Education Studies, 2022, 4, 21-34.	0.8	1
86	Probabilistic analysis of a foundational class of generalized second-order linear differential equations in classic mechanics. European Physical Journal Plus, 2022, 137, .	2.6	1
87	Preface of the â€œSymposium on Dynamical systems: a Framework for Robot Locomotionâ€•. , 2011, , .		0
88	Impact of Discrete Corrections in a Modular Approach for Trajectory Generation in Quadruped Robots. , 2011, , .		0
89	Quadruped robots' modular trajectories: Stability issues. , 2012, , .		0
90	Preface of the "Symposium on dynamical systems: A framework for robot locomotion". , 2012, , .		0

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91	A modified mathematical model for malaria transmission under control strategies. , 2012, , .		0
92	Preface of the "Symposium on dynamical systems applied to robotics". , 2013, , .		0
93	Preliminary results on peculiar patterns in fractional coupled oscillators. , 2014, , .		0
94	Preface of the â€œSymposium on dynamical systems applicationsâ€. AIP Conference Proceedings, 2015, , .	0.4	0
95	Virus propagation in a SIQR model with impulse quarantine. AIP Conference Proceedings, 2015, , .	0.4	0
96	Dynamic states of a unidirectional ring of chen oscillators. AIP Conference Proceedings, 2015, , .	0.4	0
97	Effects of dynamic quarantine and nonlinear infection rate in a model for computer worms propagation. AIP Conference Proceedings, 2015, 1648, 350003.	0.4	0
98	Dynamics of coinfection of HIV/AIDS and tuberculosis with exogenous reinfection. AIP Conference Proceedings, 2015, , .	0.4	0
99	Coupled fractional spiking neurons. , 2016, , .		0
100	Immune Response in HIV Epidemics for Distinct Transmission Rates and for Saturated CTL Response. SSRN Electronic Journal, 2018, , .	0.4	0
101	Fuzzy Calculus Theory and Its Applications. Complexity, 2018, 2018, 1-2.	1.6	0
102	Multimedia systems and applications in biomedicine. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2020, 8, 343-344.	1.9	0
103	Computational Mathematics and Neural Systems. Mathematics, 2021, 9, 754.	2.2	0
104	Numerical Simulations of a Mathematical Model for Co-Infection of Malaria and HIV/AIDS. , 2013, , .		0
105	A Simple Mathematical Model for HIV and HCV Co-Infection. , 2014, , .		0
106	Treatment and Vertical Transmission in a HIV-TB Co-infection Model. Discontinuity, Nonlinearity, and Complexity, 2014, 3, 49-58.	0.2	0
107	Transmission Model for the Co-infection of HIV/AIDS and Tuberculosis. Journal of Applied Nonlinear Dynamics, 2014, 3, 73-84.	0.3	0
108	Novel Results for Asymmetrically Coupled Fractional Neurons. Acta Polytechnica Hungarica, 2017, 14, .	2.9	0

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109	Efficacy of PEP on a HIV Epidemic Model with Latent Reservoir. SSRN Electronic Journal, 0, , .	0.4	0
110	The Burden of the Coinfection of HIV and TB in the Presence of Multi-drug Resistant Strains. Springer Proceedings in Mathematics and Statistics, 2018, , 87-97.	0.2	0
111	Simulation Study of HIV Temporal Patterns Using Bayesian Methodology. Springer Proceedings in Mathematics and Statistics, 2019, , 145-154.	0.2	0
112	STUDY OF THE SOCIAL, TEACHING AND COGNITIVE PRESENCES IN A HYBRID LEARNING FRAMEWORK. , 2021, , .		0
113	Is CoI framework a sign of deep and meaning learning outcomes?. , 2022, , .		0
114	HIGHER PROFESSIONAL TECHNICAL COURSES: STUDENTSâ€™ PROFILE AND MATHEMATICS SELF-CONCEPT. EDULEARN Proceedings, 2022, , .	0.0	0