Ricardo Almeida

List of Publications by Year
in descending order

98 papers	3,296 citations	172207 29 h-index	155451 55 g-index
100 all docs	100 docs citations	100 times ranked	1244 citing authors

#	Article	IF	Citations
1	A Caputo fractional derivative of a function with respect to another function. Communications in Nonlinear Science and Numerical Simulation, 2017, 44, 460-481.	1.7	641
2	Necessary and sufficient conditions for the fractional calculus of variations with Caputo derivatives. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 1490-1500.	1.7	182
3	Fractional differential equations with a Caputo derivative with respect to a Kernel function and their applications. Mathematical Methods in the Applied Sciences, 2018, 41, 336-352.	1.2	176
4	Calculus of variations with fractional derivatives and fractional integrals. Applied Mathematics Letters, 2009, 22, 1816-1820.	1.5	142
5	Caputo derivatives of fractional variable order: Numerical approximations. Communications in Nonlinear Science and Numerical Simulation, 2016, 35, 69-87.	1.7	142
6	Modeling some real phenomena by fractional differential equations. Mathematical Methods in the Applied Sciences, 2016, 39, 4846-4855.	1.2	129
7	A fractional calculus of variations for multiple integrals with application to vibrating string. Journal of Mathematical Physics, 2010, 51, .	0.5	100
8	Fractional order optimal control problems with free terminal time. Journal of Industrial and Management Optimization, 2014, 10, 363-381.	0.8	92
9	Analysis of a fractional SEIR model with treatment. Applied Mathematics Letters, 2018, 84, 56-62.	1.5	88
10	The Variable-Order Fractional Calculus of Variations. SpringerBriefs in Applied Sciences and Technology, 2019, , .	0.2	78
11	An epidemiological MSEIR model described by the Caputo fractional derivative. International Journal of Dynamics and Control, 2019, 7, 776-784.	1.5	74
12	Fractional Differential Equations With Dependence on the Caputoâ€“Katugampola Derivative. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	0.7	72
13	A discrete method to solve fractional optimal control problems. Nonlinear Dynamics, 2015, 80, 1811-1816.	2.7	64
14	Expansion Formulas in Terms of Integer-Order Derivatives for the Hadamard Fractional Integral and Derivative. Numerical Functional Analysis and Optimization, 2012, 33, 301-319.	0.6	59
15	Numerical approximations of fractional derivatives with applications. Asian Journal of Control, 2013, 15, 698-712.	1.9	59
16	Isoperimetric Problems on Time Scales with Nabla Derivatives. JVC/Journal of Vibration and Control, 2009, 15, 951-958.	1.5	57
17	Fractional variational problems depending on indefinite integrals. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 1009-1025.	0.6	53
18	A remark on local fractional calculus and ordinary derivatives. Open Mathematics, 2016, 14, 1122-1124.	0.5	47

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19	Discrete direct methods in the fractional calculus of variations. Computers and Mathematics With Applications, 2013, 66, 668-676.	1.4	46
20	Caputoâ€“Hadamard Fractional Derivatives of Variable Order. Numerical Functional Analysis and Optimization, 2017, 38, 1-19.	0.6	44
21	A numerical study of fractional relaxationâ€“oscillation equations involving $$psi $$ Ï^ -Caputo fractional derivative. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2019, 113, 1873-1891.	0.6	43
22	Fractional variational calculus for nondifferentiable functions. Computers and Mathematics With Applications, 2011, 61, 3097-3104.	1.4	40
23	Fractional variational problems with the Rieszâ€“Caputo derivative. Applied Mathematics Letters, 2012, 25, 142-148.	1.5	40
24	Approximation of fractional integrals by means of derivatives. Computers and Mathematics With Applications, 2012, 64, 3090-3100.	1.4	39
25	Fractional Differential Equations with Mixed Boundary Conditions. Bulletin of the Malaysian Mathematical Sciences Society, 2019, 42, 1687-1697.	0.4	37
26	What is the best fractional derivative to fit data?. Applicable Analysis and Discrete Mathematics, 2017, 11, 358-368.	0.3	36
27	Leitmannâ€™s direct method for fractional optimization problems. Applied Mathematics and Computation, 2010, 217, 956-962.	1.4	35
28	Existence results for fractional q-difference equations of order with three-point boundary conditions. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 1675-1685.	1.7	34
29	HÃ¶lderian variational problems subject to integral constraints. Journal of Mathematical Analysis and Applications, 2009, 359, 674-681.	0.5	29
30	Variational Problems Involving a Caputo-Type Fractional Derivative. Journal of Optimization Theory and Applications, 2017, 174, 276-294.	0.8	29
31	A Fractional Measles Model Having Monotonic Real Statistical Data for Constant Transmission Rate of the Disease. Fractal and Fractional, 2019, 3, 53.	1.6	23
32	Functional Differential Equations Involving the Ï^-Caputo Fractional Derivative. Fractal and Fractional, 2020, 4, 29.	1.6	23
33	Fractional variational principle of Herglotz. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 2367-2381.	0.5	23
34	A Gronwall inequality for a general Caputo fractional operator. Mathematical Inequalities and Applications, 2017, , 1089-1105.	0.1	23
35	Optimality conditions for fractional variational problems with dependence on a combined Caputo derivative of variable order. Optimization, 2015, 64, 1381-1391.	1.0	21
36	Analysis and numerical approximation of tempered fractional calculus of variations problems. Journal of Computational and Applied Mathematics, 2019, 361, 1-12.	1.1	21

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37	Optimal Leaderâ€“Follower Control for the Fractional Opinion Formation Model. Journal of Optimization Theory and Applications, 2019, 182, 1171-1185.	0.8	18
38	Isoperimetric problems of the calculus of variations with fractional derivatives. Acta Mathematica Scientia, 2012, 32, 619-630.	0.5	17
39	Computing Hadamard type operators of variable fractional order. Applied Mathematics and Computation, 2015, 257, 74-88.	1.4	16
40	Combined fractional variational problems of variable order and some computational aspects. Journal of Computational and Applied Mathematics, 2018, 339, 374-388.	1.1	16
41	On systems of fractional differential equations with the Ï‵ â€Caputo derivative and their applications. Mathematical Methods in the Applied Sciences, 2021, 44, 8026-8041.	1.2	16
42	Further properties of Osler's generalized fractional integrals and derivatives with respect to another function. Rocky Mountain Journal of Mathematics, 2019, 49, .	0.2	15
43	A fractional Malthusian growth model with variable order using an optimization approach. Statistics, Optimization and Information Computing, 2018, 6, .	0.4	15
44	Generalized transversality conditions in fractional calculus of variations. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 443-452.	1.7	14
45	A generalized fractional variational problem depending on indefinite integrals: Eulerâ€“Lagrange equation and numerical solution. JVC/Journal of Vibration and Control, 2013, 19, 2177-2186.	1.5	14
46	Quadratic Lyapunov Functions for Stability of the Generalized Proportional Fractional Differential Equations with Applications to Neural Networks. Axioms, 2021, 10, 322.	0.9	14
47	Leader-following consensus for fractional multi-agent systems. Advances in Difference Equations, 2019, 2019, .	3.5	13
48	Fractional Herglotz variational problems of variable order. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 143-154.	0.6	13
49	Fractional Eulerâ€“Lagrange Differential Equations via Caputo Derivatives. , 2012, , 109-118.		12
50	A Numerical Scheme to Solve Fractional Optimal Control Problems. Conference Papers in Mathematics, 2013, 2013, 1-10.	0.5	11
51	Constrained fractional variational problems of variable order. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 80-88.	8.5	11
52	Free time fractional optimal control problems. , 2013, , .		10
53	A Numerical Method to Solve Higher-Order Fractional Differential Equations. Mediterranean Journal of Mathematics, 2016, 13, 1339-1352.	0.4	10
54	The Eulerâ€“Lagrange and Legendre equations for functionals involving distributedâ€“order fractional derivatives. Applied Mathematics and Computation, 2018, 331, 394-403.	1.4	10

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55	Application of predictive control to the Hegselmannâ€Krause model. Mathematical Methods in the Applied Sciences, 2018, 41, 9191-9202.	1.2	10
56	On the necessary optimality conditions for the fractional Cuckerâ€“Smale optimal control problem. Communications in Nonlinear Science and Numerical Simulation, 2021, 96, 105678.	1.7	10
57	Stability of Gene Regulatory Networks Modeled by Generalized Proportional Caputo Fractional Differential Equations. Entropy, 2022, 24, 372.	1.1	9
58	An Expansion Formula with Higher-Order Derivatives for Fractional Operators of Variable Order. Scientific World Journal, The, 2013, 2013, 1-11.	0.8	8
59	Numerical solution for fractional variational problems using the Jacobi polynomials. Applied Mathematical Modelling, 2015, 39, 6461-6470.	2.2	8
60	Fractional Variational Problems Depending on Indefinite Integrals and with Delay. Bulletin of the Malaysian Mathematical Sciences Society, 2016, 39, 1515-1528.	0.4	8
61	Non-Instantaneous Impulsive Fractional Differential Equations with State Dependent Delay and Practical Stability. Acta Mathematica Scientia, 2021, 41, 1699-1718.	0.5	8
62	Optimality conditions for fractional variational problems with free terminal time. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 1-19.	0.6	8
63	Variational methods for the solution of fractional discrete/continuous Sturmâ€“Liouville problems. Journal of Mechanics of Materials and Structures, 2017, 12, 3-21.	0.4	7
64	An Extension of the Fractional Gronwall Inequality. Lecture Notes in Electrical Engineering, 2020, , 20-28.	0.3	7
65	Optimal leader-following consensus of fractional opinion formation models. Journal of Computational and Applied Mathematics, 2021, 381, 112996.	1.1	6
66	Generalized Eulerâ€“Lagrange Equations for Variational Problems with Scale Derivatives. Letters in Mathematical Physics, 2010, 92, 221-229.	0.5	5
67	Fractional differential equations and Volterraâ€“Stieltjes integral equations of the second kind. Computational and Applied Mathematics, 2019, 38, 1.	1.0	5
68	Nondifferentiable variational principles in terms of a quantum operator. Mathematical Methods in the Applied Sciences, 2011, 34, n/a-n/a.	1.2	4
69	A discrete time method to the first variation of fractional order variational functionals. Open Physics, 2013, 11, .	0.8	4
70	Optimality conditions for variational problems involving distributed-order fractional derivatives with arbitrary kernels. AIMS Mathematics, 2021, 6, 5351-5369.	0.7	4
71	Fractional variational principle of Herglotz for a new class of problems with dependence on the boundaries and a real parameter. Journal of Mathematical Physics, 2020, 61, 102701.	0.5	3
72	A Generalization of a Fractional Variational Problem with Dependence on the Boundaries and a Real Parameter. Fractal and Fractional, 2021, 5, 24.	1.6	3

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73	Global Stability Condition for the Disease-Free Equilibrium Point of Fractional Epidemiological Models. Axioms, 2021, 10, 238.	0.9	3
74	An elementary proof of a converse mean-value theorem. International Journal of Mathematical Education in Science and Technology, 2008, 39, 1110-1111.	0.8	2
75	Connectedness and compactness on standard sets. Mathematical Logic Quarterly, 2010, 56, 63-66.	0.2	2
76	General necessary conditions for infinite horizon fractional variational problems. Applied Mathematics Letters, 2013, 26, 787-793.	1.5	2
77	Non-invasive Control of the Fractional Hegselmannâ€“Krause Type Model. Lecture Notes in Electrical Engineering, 2019, , 14-27.	0.3	2
78	Fractional Calculus. SpringerBriefs in Applied Sciences and Technology, 2019, , 1-19.	0.2	2
79	On Leader-Following Consensus in Multi-Agent Systems with Discrete Updates at Random Times. Entropy, 2020, 22, 650.	1.1	2
80	Approximate Iterative Method for Initial Value Problem of Impulsive Fractional Differential Equations with Generalized Proportional Fractional Derivatives. Mathematics, 2021, 9, 1979.	1.1	2
81	Minimization Problems for Functionals Depending on Generalized Proportional Fractional Derivatives. Fractal and Fractional, 2022, 6, 356.	1.6	2
82	A strong form of almost differentiability. Journal of Mathematical Sciences, 2009, 161, 894-908.	0.1	1
83	Variational problems for HÃ¶lderian functions with free terminal point. Mathematical Methods in the Applied Sciences, 2015, 38, 1059-1069.	1.2	1
84	The Fractional Calculus of Variations. SpringerBriefs in Applied Sciences and Technology, 2019, , 61-113.	0.2	1
85	Composition functionals in higher order calculus of variations and Noether's theorem. Applicable Analysis, 2022, 101, 6321-6338.	0.6	1
86	Variational Problems with Time Delay and Higher-Order Distributed-Order Fractional Derivatives with Arbitrary Kernels. Mathematics, 2021, 9, 1665.	1.1	1
87	Variational problems with Hadamard type fractional integrals. , 2014, , .		0
88	Generalized Fuzzy Eulerâ€“Lagrange equations and transversality conditions. Tbilisi Mathematical Journal, 2017, 10, .	0.3	0
89	A formulation of Noetherâ€™s theorem for fuzzy problems of the calculus of variations. Afrika Matematika, 2018, 29, 33-46.	0.4	0
90	Fractional Opinion Formation Models with Leadership. , 2018, , .		0

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91	Optimization Conditions for Some Fractional Problems. , 2018, , .		0
92	Expansion Formulas for Fractional Derivatives. SpringerBriefs in Applied Sciences and Technology, 2019, , 33-59.	0.2	0
93	Synchronization of Caputo fractional neural networks with bounded time variable delays. Open Mathematics, 2021, 19, 388-399.	0.5	0
94	New Variational Problems with an Action Depending on Generalized Fractional Derivatives, the Free Endpoint Conditions, and a Real Parameter. Symmetry, 2021, 13, 592.	1.1	0
95	A qualitative analysis of a Mycoplasma genitalium epidemiological modelâ€. Computational and Mathematical Methods, 0, , e1199.	0.3	0
96	A scale variational principle of Herglotz. Publicationes Mathematicae, 2016, 89, 187-201.	0.1	0
97	The Cape Verde International Days on Mathematics 2017. Statistics, Optimization and Information Computing, 2018, 6, .	0.4	0
98	Optimality conditions involving the Mittagâ€“Leffler tempered fractional derivative. Discrete and Continuous Dynamical Systems - Series S, 2022, 15, 519.	0.6	0