Delfim F M Torres

List of Publications by Year
in descending order

326	9,292	36303	66911
papers	citations	51 h-index	78 g-index

342	342	342	3234
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mathematical modeling of COVID-19 transmission dynamics with a case study of Wuhan. Chaos, Solitons and Fractals, 2020, 135, 109846.	5.1	463
2	A formulation of Noether's theorem for fractional problems of the calculus of variations. Journal of Mathematical Analysis and Applications, 2007, 334, 834-846.	1.0	225
3	Fractional conservation laws in optimal control theory. Nonlinear Dynamics, 2008, 53, 215-222.	5.2	201
4	Discrete-time fractional variational problems. Signal Processing, 2011, 91, 513-524.	3.7	188
5	Necessary and sufficient conditions for the fractional calculus of variations with Caputo derivatives. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 1490-1500.	3.3	182
6	Vaccination models and optimal control strategies to dengue. Mathematical Biosciences, 2014, 247, 1-12.	1.9	169
7	Fractional actionlike variational problems. Journal of Mathematical Physics, 2008, 49, 053521.	1.1	148
8	A conformable fractional calculus on arbitrary time scales. Journal of King Saud University - Science, 2016, 28, 93-98.	3.5	143
9	Calculus of variations with fractional derivatives and fractional integrals. Applied Mathematics Letters, 2009, 22, 1816-1820.	2.7	142
10	Caputo derivatives of fractional variable order: Numerical approximations. Communications in Nonlinear Science and Numerical Simulation, 2016, 35, 69-87.	3.3	142
11	A survey on fuzzy fractional differential and optimal control nonlocal evolution equations. Journal of Computational and Applied Mathematics, 2018, 339, 3-29.	2.0	134
12	Fractional h-difference equations arising from the calculus of variations. Applicable Analysis and Discrete Mathematics, 2011, 5, 110-121.	0.7	134
13	Fractional Noetherâ€™s theorem in the Rieszâ€“Caputo sense. Applied Mathematics and Computation, 2010, 217, 1023-1033.	2.2	121
14	Fractional variational calculus with classical and combined Caputo derivatives. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 1507-1515.	1.1	106
15	Necessary optimality conditions for fractional difference problems of the calculus of variations. Discrete and Continuous Dynamical Systems, 2011, 29, 417-437.	0.9	105
16	A fractional calculus of variations for multiple integrals with application to vibrating string. Journal of Mathematical Physics, 2010, 51, .	1.1	100
17	Advanced Methods in the Fractional Calculus of Variations. SpringerBriefs in Applied Sciences and Technology, 2015, , .	0.4	98
18	Necessary optimality conditions for fractional action-like integrals of variational calculus with Riemannâ€“Liouville derivatives of order (Î±, Î²). Mathematical Methods in the Applied Sciences, 2007, 30, 1931-1939.	2.3	94

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19	Generalized natural boundary conditions for fractional variational problems in terms of the Caputo derivative. Computers and Mathematics With Applications, 2010, 59, 3110-3116.	2.7	94
20	Fractional order optimal control problems with free terminal time. Journal of Industrial and Management Optimization, 2014, 10, 363-381.	1.3	92
21	Noether's theorem on time scales. Journal of Mathematical Analysis and Applications, 2008, 342, 1220-1226.	1.0	88
22	Optimal control for a tuberculosis model with reinfection and post-exposure interventions. Mathematical Biosciences, 2013, 244, 154-164.	1.9	85
23	Mathematical Modelling, Simulation, and Optimal Control of the 2014 Ebola Outbreak in West Africa. Discrete Dynamics in Nature and Society, 2015, 2015, 1-9.	0.9	83
24	A stochastic SICA epidemic model for HIV transmission. Applied Mathematics Letters, 2018, 84, 168-175.	2.7	80
25	The Variable-Order Fractional Calculus of Variations. SpringerBriefs in Applied Sciences and Technology, 2019, , .	0.4	78
26	Existence of solution to a local fractional nonlinear differential equation. Journal of Computational and Applied Mathematics, 2017, 312, 127-133.	2.0	72
27	Sobolev Type Fractional Dynamic Equations and Optimal Multi-Integral Controls with Fractional Nonlocal Conditions. Fractional Calculus and Applied Analysis, 2015, 18, 95-121.	2.2	68
28	Approximate controllability of fractional delay dynamic inclusions with nonlocal control conditions. Applied Mathematics and Computation, 2014, 243, 161-175.	2.2	67
29	Calculus of variations on time scales with nabla derivatives. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e763-e773.	1.1	66
30	Transversality conditions for infinite horizon variational problems on time scales. Optimization Letters, 2011, 5, 41-53.	1.6	66
31	A fractional calculus on arbitrary time scales: Fractional differentiation and fractional integration. Signal Processing, 2015, 107, 230-237.	3.7	65
32	A discrete method to solve fractional optimal control problems. Nonlinear Dynamics, 2015, 80, 1811-1816.	5.2	64
33	A TB-HIV/AIDS coinfection model and optimal control treatment. Discrete and Continuous Dynamical Systems, 2015, 35, 4639-4663.	0.9	64
34	Fractional calculus of variations for a combined Caputo derivative. Fractional Calculus and Applied Analysis, 2011, 14, 523-537.	2.2	61
35	Modified optimal energy and initial memory of fractional continuous-time linear systems. Signal Processing, 2011, 91, 379-385.	3.7	61
36	Approximate controllability of fractional nonlocal delay semilinear systems in Hilbert spaces. International Journal of Control, 2013, 86, 1577-1585.	1.9	60

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37	Cost-Effectiveness Analysis of Optimal Control Measures for Tuberculosis. Bulletin of Mathematical Biology, 2014, 76, 2627-2645.	1.9	60
38	An epidemic model for cholera with optimal control treatment. Journal of Computational and Applied Mathematics, 2017, 318, 168-180.	2.0	60
39	Fractional model of COVID-19 applied to Galicia, Spain and Portugal. Chaos, Solitons and Fractals, 2021, 144, 110652.	5.1	60
40	Expansion Formulas in Terms of Integer-Order Derivatives for the Hadamard Fractional Integral and Derivative. Numerical Functional Analysis and Optimization, 2012, 33, 301-319.	1.4	59
41	Numerical approximations of fractional derivatives with applications. Asian Journal of Control, 2013, 15, 698-712.	3.0	59
42	Dynamics of Dengue epidemics when using optimal control. Mathematical and Computer Modelling, 2010, 52, 1667-1673.	2.0	58
43	Dynamics and Optimal Control of Ebola Transmission. Mathematics in Computer Science, 2016, 10, 331-342.	0.4	58
44	Isoperimetric Problems on Time Scales with Nabla Derivatives. JVC/Journal of Vibration and Control, 2009, 15, 951-958.	2.6	57
45	Dengue disease, basic reproduction number and control. International Journal of Computer Mathematics, 2012, 89, 334-346.	1.8	56
46	A SICA compartmental model in epidemiology with application to HIV/AIDS in Cape Verde. Ecological Complexity, 2017, 30, 70-75.	2.9	56
47	Direct transcription methods based on fractional integral approximation formulas for solving nonlinear fractional optimal control problems. Communications in Nonlinear Science and Numerical Simulation, 2019, 67, 334-350.	3.3	56
48	Optimal control of the COVID-19 pandemic: controlled sanitary deconfinement in Portugal. Scientific Reports, 2021, 11, 3451.	3.3	56
49	On the Noether Theorem for Optimal Control. European Journal of Control, 2002, 8, 56-63.	2.6	55
50	The Hahn Quantum Variational Calculus. Journal of Optimization Theory and Applications, 2010, 147, 419-442.	1.5	55
51	Variational calculus with conformable fractional derivatives. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 340-352.	13.1	55
52	Fractional variational problems depending on indefinite integrals. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 1009-1025.	1.1	53
53	Optimal control of a Tuberculosis model with state and control delays. Mathematical Biosciences and Engineering, 2017, 14, 321-337.	1.9	53
54	Generalized fractional calculus with applications to the calculus of variations. Computers and Mathematics With Applications, 2012, 64, 3351-3366.	2.7	51

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55	Optimal control of a fractional order epidemic model with application to human respiratory syncytial virus infection. Chaos, Solitons and Fractals, 2018, 117, 142-149.	5.1	51
56	Sensitivity Analysis in a Dengue Epidemiological Model. Conference Papers in Mathematics, 2013, 2013, 1-7.	0.5	50
57	Stability of a fractional HIV/AIDS model. Mathematics and Computers in Simulation, 2019, 164, 180-190.	4.4	49
58	Fractional Calculus of Variations in Terms of a Generalized Fractional Integral with Applications to Physics. Abstract and Applied Analysis, 2012, 2012, 1-24.	0.7	46
59	Discrete direct methods in the fractional calculus of variations. Computers and Mathematics With Applications, 2013, 66, 668-676.	2.7	46
60	Ebola model and optimal control with vaccination constraints. Journal of Industrial and Management Optimization, 2018, 14, 427-446.	1.3	46
61	Enhancement of chemotherapy using oncolytic virotherapy: Mathematical and optimal control analysis. Mathematical Biosciences and Engineering, 2018, 15, 1435-1463.	1.9	44
62	Exact solution to a dynamic SIR model. Nonlinear Analysis: Hybrid Systems, 2019, 32, 228-238.	3.5	43
63	The Second Euler-Lagrange Equation of Variational Calculus on Time Scales. European Journal of Control, 2011, 17, 9-18.	2.6	42
64	Fractional Derivatives in Dengue Epidemics. AIP Conference Proceedings, 2011, , .	0.4	42
65	Lyapunov functions for fractional-order systems in biology: Methods and applications. Chaos, Solitons and Fractals, 2020, 140, 110224.	5.1	42
66	Mathematical modeling of Zika disease in pregnant women and newborns with microcephaly in Brazil. Mathematical Methods in the Applied Sciences, 2018, 41, 8929-8941.	2.3	41
67	A numerical approach for solving fractional optimal control problems using modified hat functions. Communications in Nonlinear Science and Numerical Simulation, 2019, 78, 104849.	3.3	41
68	Generalized retarded integral inequalities. Applied Mathematics Letters, 2009, 22, 876-881.	2.7	40
69	Fractional variational calculus for nondifferentiable functions. Computers and Mathematics With Applications, 2011, 61, 3097-3104.	2.7	40
70	Duality for the left and right fractional derivatives. Signal Processing, 2015, 107, 265-271.	3.7	40
71	Control of COVID-19 dynamics through a fractional-order model. AEJ - Alexandria Engineering Journal, 2021, 60, 3587-3592.	6.4	40
72	Noetherâ€™s symmetry theorem for nabla problems of the calculus of variations. Applied Mathematics Letters, 2010, 23, 1432-1438.	2.7	39

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73	Approximation of fractional integrals by means of derivatives. Computers and Mathematics With Applications, 2012, 64, 3090-3100.	2.7	39
74	A generalized Lyapunovâ€™s inequality for a fractional boundary value problem. Journal of Computational and Applied Mathematics, 2017, 312, 192-197.	2.0	38
75	Constants of motion for non-differentiable quantum variational problems. Topological Methods in Nonlinear Analysis, 2009, 33, 217.	0.2	37
76	Existence and uniqueness of solution for a fractional Riemannâ€“Liouville initial value problem on time scales. Journal of King Saud University - Science, 2016, 28, 87-92.	3.5	36
77	Stability and optimal control of a delayed HIV model. Mathematical Methods in the Applied Sciences, 2018, 41, 2251-2260.	2.3	36
78	Higher-Order Calculus of Variations on Time Scales. , 2008, , 149-159.		36
79	Variational problems of Herglotz type with time delay: DuBois--Reymond condition and Noether's first theorem. Discrete and Continuous Dynamical Systems, 2015, 35, 4593-4610.	0.9	36
80	Leitmannâ€™s direct method for fractional optimization problems. Applied Mathematics and Computation, 2010, 217, 956-962.	2.2	35
81	Diamond- Jensen's Inequality on Time Scales. Journal of Inequalities and Applications, 2008, 2008, 576876.	1.1	34
82	Optimal Solutions to Relaxation in Multiple Control Problems of Sobolev Type with Nonlocal Nonlinear Fractional Differential Equations. Journal of Optimization Theory and Applications, 2017, 174, 7-31.	1.5	34
83	Noether's symmetry Theorem for variational and optimal control problems with time delay. Numerical Algebra, Control and Optimization, 2012, 2, 619-630.	1.6	34
84	Natural boundary conditions in the calculus of variations. Mathematical Methods in the Applied Sciences, 2010, 33, 1712-1722.	2.3	33
85	Modeling and Forecasting of COVID-19 Spreading by Delayed Stochastic Differential Equations. Axioms, 2021, 10, 18.	1.9	33
86	Lipschitzian Regularity of Minimizers for Optimal Control Problems with Control-Affine Dynamics. Applied Mathematics and Optimization, 2000, 41, 237-254.	1.6	32
87	Seasonality effects on dengue: basic reproduction number, sensitivity analysis and optimal control. Mathematical Methods in the Applied Sciences, 2016, 39, 4671-4679.	2.3	32
88	A Simple Accurate Method for Solving Fractional Variational and Optimal Control Problems. Journal of Optimization Theory and Applications, 2017, 174, 156-175.	1.5	32
89	Corrigendum to â€œMathematical modeling of COVID-19 transmission dynamics with a case study of Wuhanâ€•[Chaos Solitons Fractals 135 (2020), 109846]. Chaos, Solitons and Fractals, 2020, 141, 110311.	5.1	32
90	Complex network model for COVID-19: Human behavior, pseudo-periodic solutions and multiple epidemic waves. Journal of Mathematical Analysis and Applications, 2022, 514, 125171.	1.0	32

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91	General fractional-order anomalous diffusion with non-singular power-law kernel. Thermal Science, 2017, 21, 1-9.	1.1	32
92	Uniform asymptotic stability of a fractional tuberculosis model. Mathematical Modelling of Natural Phenomena, 2018, 13, 9.	2.4	31
93	Fractional Variational Calculus of Variable Order. , 2013, , 291-301.		31
94	Multiobjective fractional variational calculus in terms of a combined Caputo derivative. Applied Mathematics and Computation, 2012, 218, 5099-5111.	2.2	30
95	Predicting and controlling the Ebola infection. Mathematical Methods in the Applied Sciences, 2017, 40, 6155-6164.	2.3	30
96	Solutions of systems with the Caputoâ€“Fabrizio fractional delta derivative on time scales. Nonlinear Analysis: Hybrid Systems, 2019, 32, 168-176.	3.5	30
97	Optimal control strategies for tuberculosis treatment: A case study in Angola. Numerical Algebra, Control and Optimization, 2012, 2, 601-617.	1.6	30
98	HÃ¶lderian variational problems subject to integral constraints. Journal of Mathematical Analysis and Applications, 2009, 359, 674-681.	1.0	29
99	Leitmannâ€™s direct method of optimization for absolute extrema of certain problems of the calculus of variations on time scales. Applied Mathematics and Computation, 2010, 217, 1158-1162.	2.2	29
100	Pressure responses of a vertically hydraulic fractured well in a reservoir with fractal structure. Applied Mathematics and Computation, 2015, 257, 374-380.	2.2	28
101	Towards a combined fractional mechanics and quantization. Fractional Calculus and Applied Analysis, 2012, 15, 407-417.	2.2	27
102	A finite element approximation for a class of Caputo time-fractional diffusion equations. Computers and Mathematics With Applications, 2019, 78, 1334-1344.	2.7	26
103	Some inequalities for interval-valued functions on time scales. Soft Computing, 2019, 23, 6005-6015.	3.6	26
104	A New Compartmental Epidemiological Model for COVID-19 with a Case Study of Portugal. Ecological Complexity, 2020, 44, 100885.	2.9	26
105	Symmetric differentiation on time scales. Applied Mathematics Letters, 2013, 26, 264-269.	2.7	25
106	Solving Abel integral equations of first kind via fractional calculus. Journal of King Saud University - Science, 2015, 27, 161-167.	3.5	25
107	A cholera mathematical model with vaccination and the biggest outbreak of worldâ€™s history. AIMS Mathematics, 2018, 3, 448-463.	1.6	25
108	Necessary and sufficient conditions for local Pareto optimality on time scales. Journal of Mathematical Sciences, 2009, 161, 803-810.	0.4	24

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109	Exponentials and Laplace transforms on nonuniform time scales. Communications in Nonlinear Science and Numerical Simulation, 2016, 39, 252-270.	3.3	24
110	Parameter Estimation, Sensitivity Analysis and Optimal Control of a Periodic Epidemic Model with Application to HRSV in Florida. Statistics, Optimization and Information Computing, 2018, 6, .	0.7	24
111	Fractional Herglotz variational principles with generalized Caputo derivatives. Chaos, Solitons and Fractals, 2017, 102, 94-98.	5.1	23
112	Analysis of Hilfer Fractional Integro-Differential Equations with Almost Sectorial Operators. Fractal and Fractional, 2021, 5, 22.	3.3	23
113	Higher-order Hahnâ€™s quantum variational calculus. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 1147-1157.	1.1	22
114	Noetherâ€™s theorem for fractional variational problems of variable order. Open Physics, 2013, 11, .	1.7	22
115	Higher-Order Variational Problems of Herglotz Type. Vietnam Journal of Mathematics, 2014, 42, 409-419.	0.8	22
116	Modeling and optimal control of HIV/AIDS prevention through PrEP. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 119-141.	1.1	22
117	Newton's aerodynamic problem in media of chaotically moving particles. Sbornik Mathematics, 2005, 196, 885-933.	0.6	21
118	Generalizations of Gronwallâ€“Bihari inequalities on time scales. Journal of Difference Equations and Applications, 2009, 15, 529-539.	1.1	21
119	Generalizing the variational theory on time scales to include the delta indefinite integral. Computers and Mathematics With Applications, 2011, 61, 2424-2435.	2.7	21
120	Noetherâ€™s theorem for non-smooth extremals of variational problems with time delay. Applicable Analysis, 2014, 93, 153-170.	1.3	21
121	Optimality conditions for fractional variational problems with dependence on a combined Caputo derivative of variable order. Optimization, 2015, 64, 1381-1391.	1.7	21
122	Chain rules and inequalities for the BHT fractional calculus on arbitrary timescales. Arabian Journal of Mathematics, 2017, 6, 13-20.	0.9	21
123	CarathÃ©odory Equivalence, Noether Theorems, and Tonelli Full-Regularity in the Calculus of Variations and Optimal Control. Journal of Mathematical Sciences, 2004, 120, 1032-1050.	0.4	20
124	Optimality conditions for the calculus of variations with higher-order delta derivatives. Applied Mathematics Letters, 2011, 24, 87-92.	2.7	20
125	The DuBoisâ€“Reymond Fundamental Lemma of the Fractional Calculus of Variations and an Eulerâ€“Lagrange Equation Involving Only Derivatives of Caputo. Journal of Optimization Theory and Applications, 2013, 156, 56-67.	1.5	20
126	Control of a novel chaotic fractional order system using a state feedback technique. Mechatronics, 2013, 23, 755-763.	3.3	20

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127	Bioeconomic perspectives to an optimal control dengue model. International Journal of Computer Mathematics, 2013, 90, 2126-2136.	1.8	20
128	Quantum Variational Calculus. Springer Briefs in Electrical and Computer Engineering, 2014, , .	0.5	20
129	The Diamond Integral on Time Scales. Bulletin of the Malaysian Mathematical Sciences Society, 2015, 38, 1453-1462.	0.9	20
130	Multiobjective approach to optimal control for a tuberculosis model. Optimization Methods and Software, 2015, 30, 893-910.	2.4	20
131	Analysis and Optimal Control of an Intracellular Delayed HIV Model with CTL Immune Response. Mathematics in Computer Science, 2018, 12, 111-127.	0.4	20
132	Traveling wave solutions of some important Wick-type fractional stochastic nonlinear partial differential equations. Chaos, Solitons and Fractals, 2020, 131, 109542.	5.1	20
133	Pest control using farming awareness: Impact of time delays and optimal use of biopesticides. Chaos, Solitons and Fractals, 2021, 146, 110869.	5.1	20
134	Strong minimizers of the calculus of variations on time scales and the Weierstrass condition. Proceedings of the Estonian Academy of Sciences, 2009, 58, 205.	1.5	19
135	Greenâ€™s theorem for generalized fractional derivatives. Fractional Calculus and Applied Analysis, 2013, 16, 64-75.	2.2	19
136	Dengue in Cape Verde: Vector Control and Vaccination. Mathematical Population Studies, 2013, 20, 208-223.	2.2	19
137	Global Stability of a Caputo Fractional SIRS Model with General Incidence Rate. Mathematics in Computer Science, 2021, 15, 91-105.	0.4	19
138	On a Fractional Oscillator Equation with Natural Boundary Conditions. Progress in Fractional Differentiation and Applications, 2017, 3, 191-197.	0.6	19
139	Conservation Laws in Optimal Control. , 2002, , 287-296.		18
140	Optimal Control of Aquatic Diseases: A Case Study of Yemenâ€™s Cholera Outbreak. Journal of Optimization Theory and Applications, 2020, 185, 1008-1030.	1.5	18
141	Avoidance Control on Time Scales. Journal of Optimization Theory and Applications, 2010, 145, 527-542.	1.5	17
142	Isoperimetric problems of the calculus of variations with fractional derivatives. Acta Mathematica Scientia, 2012, 32, 619-630.	1.0	17
143	Mathematical Analysis of a Fractional COVID-19 Model Applied to Wuhan, Spain and Portugal. Axioms, 2021, 10, 135.	1.9	17
144	Time scale differential, integral, and variational embeddings of Lagrangian systems. Computers and Mathematics With Applications, 2012, 64, 2294-2301.	2.7	16

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145	Computing Hadamard type operators of variable fractional order. Applied Mathematics and Computation, 2015, 257, 74-88.	2.2	16
146	Combined fractional variational problems of variable order and some computational aspects. Journal of Computational and Applied Mathematics, 2018, 339, 374-388.	2.0	16
147	Euler-Lagrange equations for composition functionals in calculus of variations on time scales. Discrete and Continuous Dynamical Systems, 2011, 29, 577-593.	0.9	16
148	Nonsymmetric and symmetric fractional calculi on arbitrary nonempty closed sets. Mathematical Methods in the Applied Sciences, 2016, 39, 261-279.	2.3	15
149	Symmetric duality for left and right Riemannâ€“Liouville and Caputo fractional differences. Arab Journal of Mathematical Sciences, 2017, 23, 157-172.	0.4	15
150	Generalized fractional operators on time scales with application to dynamic equations. European Physical Journal: Special Topics, 2017, 226, 3489-3499.	2.6	15
151	A stochastic time-delayed model for the effectiveness of Moroccan COVID-19 deconfinement strategy. Mathematical Modelling of Natural Phenomena, 2020, 15, 50.	2.4	15
152	Necessary Optimality Conditions for Higher-Order Infinite Horizon Variational Problems on Time Scales. Journal of Optimization Theory and Applications, 2012, 155, 453-476.	1.5	14
153	The existence of solutions for dynamic inclusions on time scales via duality. Applied Mathematics Letters, 2012, 25, 1632-1637.	2.7	14
154	The contingent epiderivative and the calculus of variations on time scales. Optimization, 2012, 61, 251-264.	1.7	14
155	Fractional Isoperimetric Noether's Theorem in the Riemannâ€“Liouville Sense. Reports on Mathematical Physics, 2013, 71, 291-304.	0.8	14
156	Non-differentiable Solutions for Local Fractional Nonlinear Riccati Differential Equations. Fundamenta Informaticae, 2017, 151, 409-417.	0.4	14
157	Lyapunov-type inequality for a fractional boundary value problem with natural conditions. SeMA Journal, 2018, 75, 157-162.	2.0	14
158	Stability analysis and optimal control of a fractional HIV-AIDS epidemic model with memory and general incidence rate. European Physical Journal Plus, 2021, 136, 1.	2.6	14
159	Automatic Computation of Conservation Laws in the Calculus of Variations and Optimal Control. Computational Methods in Applied Mathematics, 2005, 5, 387-409.	0.8	13
160	Numerical analysis of a nonlocal parabolic problem resulting from thermistor problem. Mathematics and Computers in Simulation, 2008, 77, 291-300.	4.4	13
161	Multiobjective optimization to a TB-HIV/AIDS coinfection optimal control problem. Computational and Applied Mathematics, 2018, 37, 2112-2128.	1.3	13
162	Existence and uniqueness results for a fractional Riemannâ€“Liouville nonlocal thermistor problem on arbitrary time scales. Journal of King Saud University - Science, 2018, 30, 381-385.	3.5	13

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163	Numerical Optimal Control of HIV Transmission in Octave/MATLAB. Mathematical and Computational Applications, 2020, 25, 1.	1.3	13
164	Analysis of a SIRI Epidemic Model with Distributed Delay and Relapse. Statistics, Optimization and Information Computing, 2019, 7, .	0.7	13
165	Fractional Herglotz variational problems of variable order. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 143-154.	1.1	13
166	Existence of positive solutions to a discrete fractional boundary value problem and corresponding Lyapunov-type inequalities. Opuscula Mathematica, 2018, 38, 31.	0.8	13
167	An Optimal Control Approach to Malaria Prevention via Insecticide-Treated Nets. Conference Papers in Mathematics, 2013, 2013, 1-8.	0.5	12
168	The Legendre condition of the fractional calculus of variations. Optimization, 2014, 63, 1157-1165.	1.7	12
169	A spaceâ€“time pseudospectral discretization method for solving diffusion optimal control problems with two-sided fractional derivatives. JVC/Journal of Vibration and Control, 2019, 25, 1080-1095.	2.6	12
170	Fractional Eulerâ€“Lagrange Differential Equations via Caputo Derivatives. , 2012, , 109-118.		12
171	Optimal Control of Tuberculosis: A Review. CIM Series in Mathematical Sciences, 2015, , 701-722.	0.4	12
172	An Optimal Control Approach to Herglotz Variational Problems. Communications in Computer and Information Science, 2015, , 107-117.	0.5	12
173	Optimal Control and Sensitivity Analysis of a Fractional Order TB Model. Statistics, Optimization and Information Computing, 2019, 7, .	0.7	12
174	Noether currents for higher-order variational problems of Herglotz type with time delay. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 91-102.	1.1	12
175	Hybrid Method for Simulation of a Fractional COVID-19 Model with Real Case Application. Axioms, 2021, 10, 290.	1.9	12
176	Fractional-Order Modelling and Optimal Control of Cholera Transmission. Fractal and Fractional, 2021, 5, 261.	3.3	12
177	Conservation laws for invariant functionals containing compositionsÂ§. Applicable Analysis, 2007, 86, 1117-1126.	1.3	11
178	Contrasting Two Transformation-based Methods for Obtaining Absolute Extrema. Journal of Optimization Theory and Applications, 2008, 137, 53-59.	1.5	11
179	A non-classical class of variational problems. International Journal of Mathematical Modelling and Numerical Optimisation, 2010, 1, 227.	0.2	11
180	Insecticide Control in a Dengue Epidemics Model. AIP Conference Proceedings, 2010, , .	0.4	11

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181	A general backwards calculus of variations via duality. Optimization Letters, 2011, 5, 587-599.	1.6	11
182	A Numerical Scheme to Solve Fractional Optimal Control Problems. Conference Papers in Mathematics, 2013, 2013, 1-10.	0.5	11
183	Constrained fractional variational problems of variable order. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 80-88.	13.1	11
184	Farming awareness based optimum interventions for crop pest control. Mathematical Biosciences and Engineering, 2021, 18, 5364-5391.	1.9	11
185	Hahn's symmetric quantum variational calculus. Numerical Algebra, Control and Optimization, 2013, 3, 77-94.	1.6	11
186	Lipschitzian Regularity of the Minimizing Trajectories for Nonlinear Optimal Control Problems. Mathematics of Control, Signals, and Systems, 2003, 16, 158-174.	2.3	10
187	Combined dynamic GrÃ¼ss inequalities on time scales. Journal of Mathematical Sciences, 2009, 161, 792-802.	0.4	10
188	Two-dimensional body of maximum mean resistance. Applied Mathematics and Computation, 2009, 215, 37-52.	2.2	10
189	Backward linear control systems on time scales. International Journal of Control, 2010, 83, 1573-1580.	1.9	10
190	Optimal control of nonlocal thermistor equations. International Journal of Control, 2012, 85, 1789-1801.	1.9	10
191	Free time fractional optimal control problems. , 2013, , .		10
192	Mathematical Modeling and Control of Infectious Diseases. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-1.	1.3	10
193	A Stochastic Fractional Calculus with Applications to Variational Principles. Fractal and Fractional, 2020, 4, 38.	3.3	10
194	Numerical solution of a class of third-kind Volterra integral equations using Jacobi wavelets. Numerical Algorithms, 2021, 86, 675-691.	1.9	10
195	A Hukuhara approach to the study of hybrid fuzzy systems on time scales. Applicable Analysis and Discrete Mathematics, 2016, 10, 152-167.	0.7	10
196	On Hermite-Hadamard type inequalities for harmonical h-convex interval-valued functions. Mathematical Inequalities and Applications, 2020, , 95-105.	0.2	10
197	Higher-order infinite horizon variational problems in discrete quantum calculus. Computers and Mathematics With Applications, 2012, 64, 2166-2175.	2.7	9
198	Fractional calculus of variations of several independent variables. European Physical Journal: Special Topics, 2013, 222, 1813-1826.	2.6	9

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