Amar Debbouche

List of Publications by Year
in descending order

65 papers	1,594 citations	304743 22 h-index	315739 38 g-index
67 all docs	67 docs citations	67 times ranked	596 citing authors

#	Article	IF	Citations
1	Optimal control of a heroin epidemic mathematical model. Optimization, 2022, 71, 3107-3131.	1.7	3
2	Fractional Modeling Applied to the Dynamics of the Action Potential in Cardiac Tissue. Fractal and Fractional, 2022, 6, 149.	3.3	9
3	Controllability analysis of multiple fractional order integro-differential damping systems with impulsive interpretation. Journal of Computational and Applied Mathematics, 2022, 410, 114204.	2.0	4
4	Controllability of switched Hilfer neutral fractional dynamic systems with impulses. IMA Journal of Mathematical Control and Information, 2022, 39, 807-836.	1.7	12
5	Relative controllability analysis of fractional order differential equationsÂwith multiple time delays. Applied Mathematics and Computation, 2022, 428, 127192.	2.2	5
6	Finite element error analysis of a time-fractional nonlocal diffusion equation with the Dirichlet energy. Journal of Computational and Applied Mathematics, 2021, 382, 113066.	2.0	18
7	Total controllability of neutral fractional differential equation with non-instantaneous impulsive effects. Journal of Computational and Applied Mathematics, 2021, 383, 113158.	2.0	18
8	Stability and controllability analysis of fractional damped differential system with non-instantaneous impulses. Applied Mathematics and Computation, 2021, 391, 125633.	2.2	13
9	Focus point: cancer and HIV/AIDS dynamicsâ€"from optimality to modelling. European Physical Journal Plus, 2021, 136, 1.	2.6	8
10	Mathematical modeling and analysis for controlling the spread of infectious diseases. Chaos, Solitons and Fractals, 2021, 144, 110707.	5.1	24
11	Analysis of Hilfer Fractional Integro-Differential Equations with Almost Sectorial Operators. Fractal and Fractional, 2021, 5, 22.	3.3	23
12	A time-fractional HIV infection model with nonlinear diffusion. Results in Physics, 2021, 25, 104293.	4.1	4
13	Timeâ€partial differential equations: Modeling and simulation. Mathematical Methods in the Applied Sciences, 2021, 44, 11767-11767.	2.3	1
14	On the stability of stationary solutions in diffusion models of oncological processes. European Physical Journal Plus, 2021, 136, 1.	2.6	10
15	Stability of stationary solutions for the glioma growth equations with radial or axial symmetries. Mathematical Methods in the Applied Sciences, 2021, 44, 12021-12034.	2.3	4
16	Analysis and Optimal Control of Ï†-Hilfer Fractional Semilinear Equations Involving Nonlocal Impulsive Conditions. Symmetry, 2021, 13, 2084.	2.2	12
17	Optimal controls for secondâ€order stochastic differential equations driven by mixedâ€fractional Brownian motion with impulses. Mathematical Methods in the Applied Sciences, 2020, 43, 4107.	2.3	27
18	Traveling wave solutions of some important Wick-type fractional stochastic nonlinear partial differential equations. Chaos, Solitons and Fractals, 2020, 131, 109542.	5.1	20

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19	A Class of Fractional Degenerate Evolution Equations with Delay. Mathematics, 2020, 8, 1700.	2.2	3
20	The role of diagnosis at early stages to control cervical cancer: a mathematical prediction. European Physical Journal Plus, 2020, 135, 1.	2.6	4
21	Study of HIV mathematical model under nonsingular kernel type derivative of fractional order. Chaos, Solitons and Fractals, 2020, 139, 110095.	5.1	28
22	Doubly-weighted pseudo almost automorphic solutions for stochastic dynamic equations with Stepanov-like coefficients on time scales. Chaos, Solitons and Fractals, 2020, 137, 109899.	5.1	3
23	A time‐fractional competition ecological model with cross‐diffusion. Mathematical Methods in the Applied Sciences, 2020, 43, 5197-5211.	2.3	14
24	Approximate controllability of Hilfer fractional Sobolev type integrodifferential inclusions with nonlocal conditions. International Journal of Dynamical Systems and Differential Equations, 2020, 10, 59.	0.0	2
25	Time Optimal Control of a System Governed by Non-instantaneous Impulsive Differential Equations. Journal of Optimization Theory and Applications, 2019, 182, 573-587.	1.5	20
26	Asymptotic Almost-Periodicity for a Class of Weyl-Like Fractional Difference Equations. Mathematics, 2019, 7, 592.	2.2	2
27	Numerical Solutions for Time-Fractional Cancer Invasion System With Nonlocal Diffusion. Frontiers in Physics, 2019, 7, .	2.1	32
28	Distributed optimal control of a tumor growth treatment model with cross-diffusion effect. European Physical Journal Plus, 2019, 134, 1.	2.6	13
29	Random fractional generalized Airy differential equations: A probabilistic analysis using mean square calculus. Applied Mathematics and Computation, 2019, 352, 15-29.	2.2	24
30	Existence and regularity of final value problems for time fractional wave equations. Computers and Mathematics With Applications, 2019, 78, 1396-1414.	2.7	30
31	Approximation techniques of optimal control problems for fractional dynamic systems in separable Hilbert spaces. Chaos, Solitons and Fractals, 2019, 118, 234-241.	5.1	12
32	Existence and approximations of solutions for time‐fractional Navier‐stokes equations. Mathematical Methods in the Applied Sciences, 2018, 41, 8973-8984.	2.3	11
33	A class of time‐fractional reaction‐diffusion equation with nonlocal boundary condition. Mathematical Methods in the Applied Sciences, 2018, 41, 2987-2999.	2.3	64
34	Analytic in a Sector Resolving Families of Operators for Degenerate Evolution Fractional Equations. Journal of Mathematical Sciences, 2018, 228, 380-394.	0.4	22
35	Editorial: Modern Fractional Dynamic Systems and Applications, MFDSA 2017. Journal of Computational and Applied Mathematics, 2018, 339, 1-2.	2.0	11
36	Relative controllability in fractional differential equations with pure delay. Mathematical Methods in the Applied Sciences, 2018, 41, 8906-8914.	2.3	36

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37	ILC method for solving approximate controllability of fractional differential equations with noninstantaneous impulses. Journal of Computational and Applied Mathematics, 2018, 339, 343-355.	2.0	45
38	Biomathematics/advanced analysis in pure and applied sciences. Mathematical Methods in the Applied Sciences, 2018, 41, 8363-8364.	2.3	0
39	Weakness and Mittag–Leffler Stability of Solutions for Time-Fractional Keller–Segel Models. International Journal of Nonlinear Sciences and Numerical Simulation, 2018, 19, 753-761.	1.0	13
40	Solvability and optimal controls of impulsive Hilfer fractional delay evolution inclusions with Clarke subdifferential. Journal of Computational and Applied Mathematics, 2018, 344, 725-737.	2.0	65
41	Asymptotically Almost Periodicity for a Class of Weyl–Liouville fractional Evolution Equations. Mediterranean Journal of Mathematics, 2018, 15, 1.	0.8	4
42	Approximate controllability of impulsive non-local non-linear fractional dynamical systems and optimal control. Miskolc Mathematical Notes, 2018, 19, 255.	0.6	3
43	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
44	On the iterative learning control for stochastic impulsive differential equations with randomly varying trial lengths. Journal of Computational and Applied Mathematics, 2017, 312, 47-57.	2.0	64
45	On the iterative learning control of fractional impulsive evolution equations in Banach spaces. Mathematical Methods in the Applied Sciences, 2017, 40, 6061-6069.	2.3	27
46	Systems of semilinear evolution inequalities with temporal fractional derivative on the Heisenberg group. Advances in Difference Equations, 2017, 2017, .	3.5	2
47	Approximate controllability of semilinear Hilfer fractional differential inclusions with impulsive control inclusion conditions in Banach spaces. Chaos, Solitons and Fractals, 2017, 102, 140-148.	5.1	61
48	Impulsive fractional differential equations with Riemann–Liouville derivative and iterative learning control. Chaos, Solitons and Fractals, 2017, 102, 111-118.	5.1	14
49	Nonlinear Degenerate Fractional Evolution Equations with Nonlocal Conditions. Fundamenta Informaticae, 2017, 151, 473-485.	0.4	1
50	The International Conference: Mathematical and computational modelling in science and technology. Mathematical Methods in the Applied Sciences, 2017, 40, 6053-6053.	2.3	0
51	Approximate controllability of fractional stochastic differential inclusions with nonlocal conditions. Applicable Analysis, 2016, 95, 2361-2382.	1.3	93
52	On local fractional Volterra integral equations in fractal heat transfer. Thermal Science, 2016, 20, 795-800.	1.1	2
53	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
54	Approximate controllability of fractional delay dynamic inclusions with nonlocal control conditions. Applied Mathematics and Computation, 2014, 243, 161-175.	2.2	67

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55	Sobolev type fractional abstract evolution equations with nonlocal conditions and optimal multi-controls. Applied Mathematics and Computation, 2014, 245, 74-85.	2.2	86
56	Approximate controllability of Sobolev type fractional stochastic nonlocal nonlinear differential equations in Hilbert spaces. Electronic Journal of Qualitative Theory of Differential Equations, 2014, , 1-16.	0.5	19
57	Approximate controllability of fractional nonlocal delay semilinear systems in Hilbert spaces. International Journal of Control, 2013, 86, 1577-1585.	1.9	60
58	Blowing–up solutions to two–times fractional differential equations. Mathematische Nachrichten, 2013, 286, 1797-1804.	0.8	5
59	A class of degenerate fractional evolution systems in banach spaces. Differential Equations, 2013, 49, 1569-1576.	0.7	14
60	Approximate Controllability of Sobolev Type Nonlocal Fractional Stochastic Dynamic Systems in Hilbert Spaces. Abstract and Applied Analysis, 2013, 2013, 1-10.	0.7	27
61	Existence of Solutions for Fractional Differential Inclusions with Separated Boundary Conditions in Banach Space. Advances in Mathematical Physics, 2013, 2013, 1-5.	0.8	15
62	Exact Null Controllability for Fractional Nonlocal Integrodifferential Equations via Implicit Evolution System. Journal of Applied Mathematics, 2012, 2012, 1-17.	0.9	21
63	Nonlocal nonlinear integrodifferential equations of fractional orders. Boundary Value Problems, 2012, 2012, .	0.7	30
64	Fractional nonlocal impulsive quasilinear multi-delay integro-differential systems. Advances in Difference Equations, 2011, 2011, .	3.5	7
65	Controllability of fractional evolution nonlocal impulsive quasilinear delay integro-differential systems. Computers and Mathematics With Applications, 2011, 62, 1442-1450.	2.7	191