

Amar Debbouche

List of Publications by Year in descending order

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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	Controllability of fractional evolution nonlocal impulsive quasilinear delay integro-differential systems. <i>Computers and Mathematics With Applications</i> , 2011, 62, 1442-1450.	2.7	191
2	Approximate controllability of fractional stochastic differential inclusions with nonlocal conditions. <i>Applicable Analysis</i> , 2016, 95, 2361-2382.	1.3	93
3	Sobolev type fractional abstract evolution equations with nonlocal conditions and optimal multi-controls. <i>Applied Mathematics and Computation</i> , 2014, 245, 74-85.	2.2	86
4	Sobolev Type Fractional Dynamic Equations and Optimal Multi-Integral Controls with Fractional Nonlocal Conditions. <i>Fractional Calculus and Applied Analysis</i> , 2015, 18, 95-121.	2.2	68
5	Approximate controllability of fractional delay dynamic inclusions with nonlocal control conditions. <i>Applied Mathematics and Computation</i> , 2014, 243, 161-175.	2.2	67
6	Solvability and optimal controls of impulsive Hilfer fractional delay evolution inclusions with Clarke subdifferential. <i>Journal of Computational and Applied Mathematics</i> , 2018, 344, 725-737.	2.0	65
7	On the iterative learning control for stochastic impulsive differential equations with randomly varying trial lengths. <i>Journal of Computational and Applied Mathematics</i> , 2017, 312, 47-57.	2.0	64
8	A class of time-fractional reaction-diffusion equation with nonlocal boundary condition. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 2987-2999.	2.3	64
9	Approximate controllability of semilinear Hilfer fractional differential inclusions with impulsive control inclusion conditions in Banach spaces. <i>Chaos, Solitons and Fractals</i> , 2017, 102, 140-148.	5.1	61
10	Approximate controllability of fractional nonlocal delay semilinear systems in Hilbert spaces. <i>International Journal of Control</i> , 2013, 86, 1577-1585.	1.9	60
11	ILC method for solving approximate controllability of fractional differential equations with noninstantaneous impulses. <i>Journal of Computational and Applied Mathematics</i> , 2018, 339, 343-355.	2.0	45
12	Relative controllability in fractional differential equations with pure delay. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 8906-8914.	2.3	36
13	Optimal Solutions to Relaxation in Multiple Control Problems of Sobolev Type with Nonlocal Nonlinear Fractional Differential Equations. <i>Journal of Optimization Theory and Applications</i> , 2017, 174, 7-31.	1.5	34
14	Numerical Solutions for Time-Fractional Cancer Invasion System With Nonlocal Diffusion. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	32
15	Nonlocal nonlinear integrodifferential equations of fractional orders. <i>Boundary Value Problems</i> , 2012, 2012, .	0.7	30
16	Existence and regularity of final value problems for time fractional wave equations. <i>Computers and Mathematics With Applications</i> , 2019, 78, 1396-1414.	2.7	30
17	Study of HIV mathematical model under nonsingular kernel type derivative of fractional order. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110095.	5.1	28
18	Approximate Controllability of Sobolev Type Nonlocal Fractional Stochastic Dynamic Systems in Hilbert Spaces. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-10.	0.7	27

#	ARTICLE	IF	CITATIONS
19	On the iterative learning control of fractional impulsive evolution equations in Banach spaces. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 6061-6069.	2.3	27
20	Optimal controls for second-order stochastic differential equations driven by mixed fractional Brownian motion with impulses. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 4107.	2.3	27
21	Random fractional generalized Airy differential equations: A probabilistic analysis using mean square calculus. <i>Applied Mathematics and Computation</i> , 2019, 352, 15-29.	2.2	24
22	Mathematical modeling and analysis for controlling the spread of infectious diseases. <i>Chaos, Solitons and Fractals</i> , 2021, 144, 110707.	5.1	24
23	Analysis of Hilfer Fractional Integro-Differential Equations with Almost Sectorial Operators. <i>Fractal and Fractional</i> , 2021, 5, 22.	3.3	23
24	Analytic in a Sector Resolving Families of Operators for Degenerate Evolution Fractional Equations. <i>Journal of Mathematical Sciences</i> , 2018, 228, 380-394.	0.4	22
25	Exact Null Controllability for Fractional Nonlocal Integrodifferential Equations via Implicit Evolution System. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-17.	0.9	21
26	Time Optimal Control of a System Governed by Non-instantaneous Impulsive Differential Equations. <i>Journal of Optimization Theory and Applications</i> , 2019, 182, 573-587.	1.5	20
27	Traveling wave solutions of some important Wick-type fractional stochastic nonlinear partial differential equations. <i>Chaos, Solitons and Fractals</i> , 2020, 131, 109542.	5.1	20
28	Approximate controllability of Sobolev type fractional stochastic nonlocal nonlinear differential equations in Hilbert spaces. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , 2014, , 1-16.	0.5	19
29	Finite element error analysis of a time-fractional nonlocal diffusion equation with the Dirichlet energy. <i>Journal of Computational and Applied Mathematics</i> , 2021, 382, 113066.	2.0	18
30	Total controllability of neutral fractional differential equation with non-instantaneous impulsive effects. <i>Journal of Computational and Applied Mathematics</i> , 2021, 383, 113158.	2.0	18
31	Existence of Solutions for Fractional Differential Inclusions with Separated Boundary Conditions in Banach Space. <i>Advances in Mathematical Physics</i> , 2013, 2013, 1-5.	0.8	15
32	A class of degenerate fractional evolution systems in banach spaces. <i>Differential Equations</i> , 2013, 49, 1569-1576.	0.7	14
33	Impulsive fractional differential equations with Riemann-Liouville derivative and iterative learning control. <i>Chaos, Solitons and Fractals</i> , 2017, 102, 111-118.	5.1	14
34	A time-fractional competition ecological model with cross-diffusion. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 5197-5211.	2.3	14
35	Weakness and Mittag-Leffler Stability of Solutions for Time-Fractional Keller-Segel Models. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2018, 19, 753-761.	1.0	13
36	Distributed optimal control of a tumor growth treatment model with cross-diffusion effect. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	13

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37	Stability and controllability analysis of fractional damped differential system with non-instantaneous impulses. <i>Applied Mathematics and Computation</i> , 2021, 391, 125633.	2.2	13
38	Approximation techniques of optimal control problems for fractional dynamic systems in separable Hilbert spaces. <i>Chaos, Solitons and Fractals</i> , 2019, 118, 234-241.	5.1	12
39	Analysis and Optimal Control of \mathbb{I}^{α} -Hilfer Fractional Semilinear Equations Involving Nonlocal Impulsive Conditions. <i>Symmetry</i> , 2021, 13, 2084.	2.2	12
40	Controllability of switched Hilfer neutral fractional dynamic systems with impulses. <i>IMA Journal of Mathematical Control and Information</i> , 2022, 39, 807-836.	1.7	12
41	Existence and approximations of solutions for time-fractional Navier-Stokes equations. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 8973-8984.	2.3	11
42	Editorial: Modern Fractional Dynamic Systems and Applications, MFDSA 2017. <i>Journal of Computational and Applied Mathematics</i> , 2018, 339, 1-2.	2.0	11
43	On the stability of stationary solutions in diffusion models of oncological processes. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	10
44	Fractional Modeling Applied to the Dynamics of the Action Potential in Cardiac Tissue. <i>Fractal and Fractional</i> , 2022, 6, 149.	3.3	9
45	Focus point: cancer and HIV/AIDS dynamics—from optimality to modelling. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	8
46	Fractional nonlocal impulsive quasilinear multi-delay integro-differential systems. <i>Advances in Difference Equations</i> , 2011, 2011, .	3.5	7
47	Blowing-up solutions to two-times fractional differential equations. <i>Mathematische Nachrichten</i> , 2013, 286, 1797-1804.	0.8	5
48	Relative controllability analysis of fractional order differential equations with multiple time delays. <i>Applied Mathematics and Computation</i> , 2022, 428, 127192.	2.2	5
49	Asymptotically Almost Periodicity for a Class of Weyl-Liouville fractional Evolution Equations. <i>Mediterranean Journal of Mathematics</i> , 2018, 15, 1.	0.8	4
50	The role of diagnosis at early stages to control cervical cancer: a mathematical prediction. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	4
51	A time-fractional HIV infection model with nonlinear diffusion. <i>Results in Physics</i> , 2021, 25, 104293.	4.1	4
52	Stability of stationary solutions for the glioma growth equations with radial or axial symmetries. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 12021-12034.	2.3	4
53	Controllability analysis of multiple fractional order integro-differential damping systems with impulsive interpretation. <i>Journal of Computational and Applied Mathematics</i> , 2022, 410, 114204.	2.0	4
54	A Class of Fractional Degenerate Evolution Equations with Delay. <i>Mathematics</i> , 2020, 8, 1700.	2.2	3

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55	Doubly-weighted pseudo almost automorphic solutions for stochastic dynamic equations with Stepanov-like coefficients on time scales. <i>Chaos, Solitons and Fractals</i> , 2020, 137, 109899.	5.1	3
56	Approximate controllability of impulsive non-local non-linear fractional dynamical systems and optimal control. <i>Miskolc Mathematical Notes</i> , 2018, 19, 255.	0.6	3
57	Optimal control of a heroin epidemic mathematical model. <i>Optimization</i> , 2022, 71, 3107-3131.	1.7	3
58	Systems of semilinear evolution inequalities with temporal fractional derivative on the Heisenberg group. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	2
59	Asymptotic Almost-Periodicity for a Class of Weyl-Like Fractional Difference Equations. <i>Mathematics</i> , 2019, 7, 592.	2.2	2
60	On local fractional Volterra integral equations in fractal heat transfer. <i>Thermal Science</i> , 2016, 20, 795-800.	1.1	2
61	Approximate controllability of Hilfer fractional Sobolev type integrodifferential inclusions with nonlocal conditions. <i>International Journal of Dynamical Systems and Differential Equations</i> , 2020, 10, 59.	0.0	2
62	Nonlinear Degenerate Fractional Evolution Equations with Nonlocal Conditions. <i>Fundamenta Informaticae</i> , 2017, 151, 473-485.	0.4	1
63	Timeâ€partial differential equations: Modeling and simulation. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 11767-11767.	2.3	1
64	The International Conference: Mathematical and computational modelling in science and technology. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 6053-6053.	2.3	0
65	Biomathematics/advanced analysis in pure and applied sciences. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 8363-8364.	2.3	0