Arran Fernandez

List of Publications by Year
in descending order

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57	1,615	331538	302012
papers	citations	21 h-index	39 g-index

59	59	59	812
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On some new properties of fractional derivatives with Mittag-Leffler kernel. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 444-462.	1.7	237
2	On a Fractional Operator Combining Proportional and Classical Differintegrals. Mathematics, 2020, 8, 360.	1.1	193
3	On Fractional Operators and Their Classifications. Mathematics, 2019, 7, 830.	1.1	147
4	On fractional calculus with general analytic kernels. Applied Mathematics and Computation, 2019, 354, 248-265.	1.4	130
5	Series representations for fractional-calculus operators involving generalised Mittag-Leffler functions. Communications in Nonlinear Science and Numerical Simulation, 2019, 67, 517-527.	1.7	114
6	Hermiteâ€Hadamard inequalities in fractional calculus defined using Mittagâ€Leffler kernels. Mathematical Methods in the Applied Sciences, 2021, 44, 8414-8431.	1.2	73
7	A naturally emerging bivariate Mittag-Leffler function and associated fractional-calculus operators. Computational and Applied Mathematics, 2020, 39, 1.	1.0	45
8	On some analytic properties of tempered fractional calculus. Journal of Computational and Applied Mathematics, 2020, 366, 112400.	1.1	42
9	Solving PDEs of fractional order using the unified transform method. Applied Mathematics and Computation, 2018, 339, 738-749.	1.4	38
10	Some New Fractional-Calculus Connections between Mittagâ€“Leffler Functions. Mathematics, 2019, 7, 485.	1.1	35
11	Classes of operators in fractional calculus: A case study. Mathematical Methods in the Applied Sciences, 2021, 44, 9143-9162.	1.2	33
12	Tempered and Hadamard-Type Fractional Calculus with Respect to Functions. Mediterranean Journal of Mathematics, 2021, 18, 1.	0.4	33
13	The mean value theorem and Taylorâ€™s theorem for fractional derivatives with Mittagâ€“Leffler kernel. Advances in Difference Equations, 2018, 2018, 86.	3.5	31
14	Trivariate Mittag-Leffler functions used to solve multi-order systems of fractional differential equations. Communications in Nonlinear Science and Numerical Simulation, 2021, 97, 105735.	1.7	31
15	A complex analysis approach to Atanganaâ€“Baleanu fractional calculus. Mathematical Methods in the Applied Sciences, 2021, 44, 8070-8087.	1.2	30
16	On Laplace transforms with respect to functions and their applications to fractional differential equations. Mathematical Methods in the Applied Sciences, 2023, 46, 8304-8323.	1.2	30
17	Diffusion on Middle-Î¾ Cantor Sets. Entropy, 2018, 20, 504.	1.1	28
18	Operational calculus for Caputo fractional calculus with respect to functions and the associated fractional differential equations. Applied Mathematics and Computation, 2021, 409, 126400.	1.4	28

#	Article	IF	Citations
19	Random Variables and Stable Distributions on Fractal Cantor Sets. Fractal and Fractional, 2019, 3, 31.	1.6	26
20	Fractal Calculus of Functions on Cantor Tartan Spaces. Fractal and Fractional, 2018, 2, 30.	1.6	25
21	Explicit analytical solutions of incommensurate fractional differential equation systems. Applied Mathematics and Computation, 2021, 390, 125590.	1.4	22
22	Operational Calculus for the Riemannâ€“Liouville Fractional Derivative with Respect to a Function and its Applications. Fractional Calculus and Applied Analysis, 2021, 24, 518-540.	1.2	19
23	Relations between fractional models with three-parameter Mittag-Leffler kernels. Advances in Difference Equations, 2020, 2020, .	3.5	19
24	Weighted Fractional Calculus: A General Class of Operators. Fractal and Fractional, 2022, 6, 208.	1.6	17
25	On tempered fractional calculus with respect to functions and the associated fractional differential equations. Mathematical Methods in the Applied Sciences, 2022, 45, 11134-11157.	1.2	14
26	On a new definition of fractional differintegrals with Mittag-Leffer kernel. Filomat, 2019, 33, 245-254.	0.2	13
27	Differintegration with Respect to Functions in Fractional Models Involving Mittag-Leffler Functions. SSRN Electronic Journal, 2018, , .	0.4	12
28	Modified Mittag-Leffler Functions with Applications in Complex Formulae for Fractional Calculus. Fractal and Fractional, 2020, 4, 45.	1.6	11
29	On the fractional calculus of multivariate Mittag-Leffler functions. International Journal of Computer Mathematics, 2022, 99, 247-273.	1.0	11
30	On a New Class of Fractional Difference-Sum Operators with Discrete Mittag-Leffler Kernels. Mathematics, 2019, 7, 772.	1.1	10
31	On a certain bivariate Mittagâ€Leffler function analysed from a fractionalâ€calculus point of view. Mathematical Methods in the Applied Sciences, 2021, 44, 2600-2620.	1.2	9
32	On a Five-Parameter Mittag-Leffler Function and the Corresponding Bivariate Fractional Operators. Fractal and Fractional, 2021, 5, 45.	1.6	9
33	On fractional calculus with analytic kernels with respect to functions. Computational and Applied Mathematics, 2021, 40, 1.	1.0	8
34	A generalisation of the Malgrangeâ€“Ehrenpreis theorem to find fundamental solutions to fractional PDEs. Electronic Journal of Qualitative Theory of Differential Equations, 2017, , 1-12.	0.2	8
35	An elliptic regularity theorem for fractional partial differential operators. Computational and Applied Mathematics, 2018, 37, 5542-5553.	1.3	7
36	Well-posedness results for fractional semi-linear wave equations. Discrete and Continuous Dynamical Systems - Series B, 2020, 25, 569-597.	0.5	7

#	Article	IF	Citations
37	MikusiÅ„ski's operational calculus for Prabhakar fractional calculus. Integral Transforms and Special Functions, 2022, 33, 945-965.	0.8	7
38	Linear differential equations with variable coefficients and Mittag-Leffler kernels. AEJ - Alexandria Engineering Journal, 2022, 61, 4757-4763.	3.4	6
39	Asymptotics to all orders of the Hurwitz zeta function. Journal of Mathematical Analysis and Applications, 2018, 465, 423-458.	0.5	5
40	Balance equations with generalised memory and the emerging fractional kernels. Nonlinear Dynamics, 2021, 104, 4149.	2.7	5
41	On nonâ€instantaneous impulsive fractional differential equations and their equivalent integral equations. Mathematical Methods in the Applied Sciences, 2021, 44, 13979-13988.	1.2	5
42	On the importance of conjugation relations in fractional calculus. Computational and Applied Mathematics, 2022, 41, .	1.0	5
43	Fractionalisation of complex d-bar derivatives. Complex Variables and Elliptic Equations, 2021, 66, 437-475.	0.4	4
44	On the analytical development of incomplete Riemannâ€“Liouville fractional calculus. Turkish Journal of Mathematics, 2021, 45, 1418-1443.	0.3	4
45	The Lerch zeta function as a fractional derivative. Banach Center Publications, 0, 118, 113-124.	0.1	4
46	A catalogue of semigroup properties for integral operators with Foxâ€“Wright kernel functions. Studies in Applied Mathematics, 2022, 148, 1477-1518.	1.1	4
47	Solving Prabhakar differential equations using MikusiÅ„skiâ€™s operational calculus. Computational and Applied Mathematics, 2022, 41, 1.	1.0	4
48	Interior Regularity Estimates for a Degenerate Elliptic Equation with Mixed Boundary Conditions. Axioms, 2018, 7, 65.	0.9	2
49	Brownian Motion on Cantor Sets. International Journal of Nonlinear Sciences and Numerical Simulation, 2020, 21, 275-281.	0.4	2
50	Characterising Extended Lipschitz Type Conditions with Moduli of Continuity. Results in Mathematics, 2021, 76, 1.	0.4	2
51	On linear fractional differential equationsÂwith variable coefficients. Applied Mathematics and Computation, 2022, 432, 127370.	1.4	2
52	Uniform asymptotics as a stationary point approaches an endpoint. IMA Journal of Applied Mathematics, 2018, 83, 204-242.	0.8	1
53	Solving a well-posed fractional initial value problem by a complex approach. Fixed Point Theory and Algorithms for Sciences and Engineering, 2021, 2021, .	0.2	1
54	Fractional differential relations for the Lerch zeta function. Archiv Der Mathematik, 2021, 117, 515-527.	0.3	1

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55	Lipschitz and Fourier type conditions with moduli of continuity in rank 1 symmetric spaces. Monatshefte Fur Mathematik, 2022, 197, 353-364.	0.5	1
56	Editorial for Special Issue â€œFractional Calculus and Special Functions with Applicationsâ€• Fractal and Fractional, 2021, 5, 224.	1.6	0
57	MikusiÅ„skiâ€™s Operational Calculus Applied inÂGeneral Classes ofÂFractional Calculus. Lecture Notes in Networks and Systems, 2022, , 171-176.	0.5	0