Rudolf Gorenflo

List of Publications by Year
in descending order

53 papers	5,497 citations	185998 28 h-index	276539 41 g-index
55 all docs	55 docs citations	55 times ranked	2214 citing authors

#	Article	IF	Citations
1	Fractional differentiation of the product of Bessel functions of the first kind. Analysis (Germany), 2016, 36, .	0.2	0
2	Time series models associated with Mittag-Leffler type distributions and its properties. Communications in Statistics - Theory and Methods, 2016, 45, 7210-7225.	0.6	0
3	On the Fractional Poisson Process and the Discretized Stable Subordinator. Axioms, 2015, 4, 321-344.	0.9	18
4	Time-fractional diffusion equation in the fractional Sobolev spaces. Fractional Calculus and Applied Analysis, 2015, 18, 799-820.	1.2	147
5	Mittag-Leffler Functions, Related Topics and Applications. Springer Monographs in Mathematics, 2014, , .	0.1	645
6	Applications to Fractional Order Equations. Springer Monographs in Mathematics, 2014, , 165-200.	0.1	2
7	Hilferâ€“Prabhakar derivatives and some applications. Applied Mathematics and Computation, 2014, 242, 576-589.	1.4	153
8	Mittag-Leffler Functions with Three Parameters. Springer Monographs in Mathematics, 2014, , 97-128.	0.1	1
9	Applications to Deterministic Models. Springer Monographs in Mathematics, 2014, , 201-233.	0.1	0
10	The Two-Parametric Mittag-Leffler Function. Springer Monographs in Mathematics, 2014, , 55-96.	0.1	0
11	Applications to Stochastic Models. Springer Monographs in Mathematics, 2014, , 235-268.	0.1	0
12	The Classical Mittag-Leffler Function. Springer Monographs in Mathematics, 2014, , 17-54.	0.1	1
13	Historical Overview of the Mittag-Leffler Functions. Springer Monographs in Mathematics, 2014, , 7-16.	0.1	0
14	Fundamental solution of a distributed order time-fractional diffusion-wave equation as probability density. Fractional Calculus and Applied Analysis, 2013, 16, 297-316.	1.2	113
15	Nonlinear two-term time fractional diffusion-wave problem. Nonlinear Analysis: Real World Applications, 2010, 11, 3512-3523.	0.9	25
16	Some recent advances in theory and simulation of fractional diffusion processes. Journal of Computational and Applied Mathematics, 2009, 229, 400-415.	1.1	116
17	Time-fractional Diffusion of Distributed Order. JVC/Journal of Vibration and Control, 2008, 14, 1267-1290.	1.5	170
18	The Two Forms of Fractional Relaxation of Distributed Order. JVC/Journal of Vibration and Control, 2007, 13, 1249-1268.	1.5	106

#	Article	IF	Citations
19	Beyond the Poisson renewal process: A tutorial survey. Journal of Computational and Applied Mathematics, 2007, 205, 725-735.	1.1	53
20	Continuous-time random walk and parametric subordination in fractional diffusion. Chaos, Solitons and Fractals, 2007, 34, 87-103.	2.5	145
21	Some aspects of fractional diffusion equations of single and distributed order. Applied Mathematics and Computation, 2007, 187, 295-305.	1.4	139
22	Diffusion-wave phenomena. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1030207-1030208.	0.2	0
23	Sub-diffusion equations of fractional order and their fundamental solutions. , 2007, , 23-55.		13
24	FRACTIONAL RELAXATION AND TIME-FRACTIONAL DIFFUSION OF DISTRIBUTED ORDER. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1-21.	0.4	4
25	FRACTIONAL RELAXATION OF DISTRIBUTED ORDER. , 2006, , .		11
26	Simply and multiply scaled diffusion limits for continuous time random walks. Journal of Physics: Conference Series, 2005, 7, 1-16.	0.3	42
27	Cauchy and Nonlocal Multi-Point Problems for Distributed Order Pseudo-Differential Equations, Part One. Zeitschrift Fur Analysis Und Ihre Anwendung, 2005, 24, 449-466.	0.8	17
28	CONTINUOUS TIME RANDOM WALK AND TIME FRACTIONAL DIFFUSION: A NUMERICAL COMPARISON BETWEEN THE FUNDAMENTAL SOLUTIONS. Fluctuation and Noise Letters, 2005, 05, L291-L297.	1.0	12
29	Uncoupled continuous-time random walks: Solution and limiting behavior of the master equation. Physical Review E, 2004, 69, 011107.	0.8	180
30	Anomalous waiting times in high-frequency financial data. Quantitative Finance, 2004, 4, 695-702.	0.9	75
31	Discrete and Continuous Random Walk Models for Space-Time Fractional Diffusion. Nonlinear Dynamics, 2004, 38, 101-116.	2.7	54
32	A RENEWAL PROCESS OF MITTAG-LEFFLER TYPE. , 2004, , .		3
33	Fully discrete random walks for spaceâ€“time fractional diffusion equations. Signal Processing, 2003, 83, 2411-2420.	2.1	39
34	Fractional diffusion Processes: Probability Distributions and Continuous Time Random Walk. Lecture Notes in Physics, 2003, , 148-166.	0.3	68
35	REVISITING THE DERIVATION OF THE FRACTIONAL DIFFUSION EQUATION. Fractals, 2003, 11, 281-289.	1.8	47
36	Discrete random walk models for spaceâ€“time fractional diffusion. Chemical Physics, 2002, 284, 521-541.	0.9	236

#	Article	IF	Citations
37	Fractional diffusion: probability distributions and random walk models. Physica A: Statistical Mechanics and Its Applications, 2002, 305, 106-112.	1.2	79
38	Time Fractional Diffusion: A Discrete Random Walk Approach. Nonlinear Dynamics, 2002, 29, 129-143.	2.7	311
39	Survival probability of LIFFE bond futures via the Mittag-Leffler function. , 2002, , 195-206.		0
40	Fractional Calculus and Continuous-Time Finance III : the Diffusion Limit. , 2001, , 171-180.		134
41	Random walk models approximating symmetric space-fractional diffusion processes. , 2001, , 120-145.		33
42	Wright functions as scale-invariant solutions of the diffusion-wave equation. Journal of Computational and Applied Mathematics, 2000, 118, 175-191.	1.1	251
43	On Mittag-Leffler-type functions in fractional evolution processes. Journal of Computational and Applied Mathematics, 2000, 118, 283-299.	1.1	466
44	Fractional calculus and continuous-time finance. Physica A: Statistical Mechanics and Its Applications, 2000, 284, 376-384.	1.2	679
45	Fractional calculus and continuous-time finance II: the waiting-time distribution. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 468-481.	1.2	450
46	Approximation of Levy-Feller Diffusion by Random Walk. Zeitschrift Fur Analysis Und Ihre Anwendung, 1999, 18, 231-246.	0.8	30
47	Discrete random walk models for symmetric LÃ©vyâ€“Feller diffusion processes. Physica A: Statistical Mechanics and Its Applications, 1999, 269, 79-89.	1.2	61
48	Operator theoretic treatment of linear Abel integral equations of first kind. Japan Journal of Industrial and Applied Mathematics, 1999, 16, 137-161.	0.5	44
49	Operationl method for solving generalized abel integral equation of second kind. Integral Transforms and Special Functions, 1997, 5, 47-58.	0.8	34
50	asymptottcs of singular values of volterra integral operators. Numerical Functional Analysis and Optimization, 1996, 17, 453-461.	0.6	3
51	On the regularization of fractional differentiation of arbitrary positive order. Numerical Functional Analysis and Optimization, 1994, 15, 695-711.	0.6	5
52	NichtnegativitÃts-und substanzerhaltende Differenzenschemata fÃ¼r lineare Diffusionsgleichungen. Numerische Mathematik, 1970, 14, 448-467.	0.9	6
53	Continuous Time Random Walk, Mittag-Leffler Waiting Time and Fractional Diffusion: Mathematical Aspects. , 0, , 93-127.		32