Am Mathai

List of Publications by Year
in descending order

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35	1,057	567144 15	414303 32
papers	citations	h-index	g-index

35	35	35	350
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On generalized fractional kinetic equations. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 657-664.	1.2	137
2	A pathway to matrix-variate gamma and normal densities. Linear Algebra and Its Applications, 2005, 396, 317-328.	0.4	130
3	Pathway model, superstatistics, Tsallis statistics, and a generalized measure of entropy. Physica A: Statistical Mechanics and Its Applications, 2007, 375, 110-122.	1.2	125
4	The fractional kinetic equation and thermonuclear functions. Astrophysics and Space Science, 2000, 273, 53-63.	0.5	124
5	On fractional kinetic equations. Astrophysics and Space Science, 2002, 282, 281-287.	0.5	113
6	Unified Fractional Kinetic Equation and a Fractional Diffusion Equation. Astrophysics and Space Science, 2004, 290, 299-310.	0.5	82
7	On generalized distributions and pathways. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2109-2113.	0.9	42
8	Further solutions of fractional reactionâ€“diffusion equations in terms of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>H</mml:mi></mml:math>-function. Journal of Computational and Applied Mathematics, 2011, 235, 1311-1316.	1.1	34
9	On generalized entropy measures and pathways. Physica A: Statistical Mechanics and Its Applications, 2007, 385, 493-500.	1.2	25
10	Some complex matrix-variate statistical distributions on rectangular matrices. Linear Algebra and Its Applications, 2005, 410, 198-216.	0.4	24
11	Boltzmann-Gibbs Entropy Versus Tsallis Entropy: Recent Contributions to Resolving the Argument of Einstein Concerning â€œNeither Herr Boltzmann nor Herr Planck has Given a Definition of Wâ€?. Astrophysics and Space Science, 2004, 290, 241-245.	0.5	20
12	Astrophysical thermonuclear functions for Boltzmannâ€“Gibbs statistics and Tsallis statistics. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 649-656.	1.2	20
13	Fractional integral operators involving many matrix variables. Linear Algebra and Its Applications, 2014, 446, 196-215.	0.4	18
14	The residual effect of a growth-decay mechanism and the distributions of covariance structures. Canadian Journal of Statistics, 1993, 21, 277-283.	0.6	16
15	Fractional integral operators in the complex matrix variate case. Linear Algebra and Its Applications, 2013, 439, 2901-2913.	0.4	16
16	On Thermonuclear Reaction Rates. Astrophysics and Space Science, 1997, 258, 185-199.	0.5	15
17	Further results on the trace of a noncentral wishart matrix. Communications in Statistics - Theory and Methods, 1982, 11, 1077-1086.	0.6	14
18	A pathway from Bayesian statistical analysis to superstatistics. Applied Mathematics and Computation, 2011, 218, 799-804.	1.4	14

#	Article	IF	Citations
19	Review of mathematical techniques applicable in astrophysical reaction rate theory. Astrophysics and Space Science, 2002, 282, 265-280.	0.5	13
20	On<tex>q</tex>-Logistic and Related Models. IEEE Transactions on Reliability, 2006, 55, 237-244.	3.5	13
21	Random volumes under a general matrix-variate model. Linear Algebra and Its Applications, 2007, 425, 162-170.	0.4	8
22	Fractional differential operators in the complex matrix-variate case. Linear Algebra and Its Applications, 2015, 478, 200-217.	0.4	8
23	Multivariate and matrix-variate analogues of Maxwellâ€“Boltzmann and Raleigh densities. Physica A: Statistical Mechanics and Its Applications, 2017, 468, 668-676.	1.2	8
24	Computational solutions of unified fractional reactionâ€“diffusion equations with composite fractional time derivative. Communications in Nonlinear Science and Numerical Simulation, 2015, 27, 1-11.	1.7	7
25	Pathway parameter and thermonuclear functions. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2462-2470.	1.2	6
26	Analogues of reliability analysis for matrix-variate cases. Linear Algebra and Its Applications, 2017, 532, 287-311.	0.4	6
27	Evaluation of matrix-variate gamma and beta integrals as multiple integrals and Koberfractional integral operators in the complex matrix variate case. Applied Mathematics and Computation, 2014, 247, 312-318.	1.4	5
28	On linear functions of certain noncentral versions of independent gamma variables. Journal of Multivariate Analysis, 1992, 41, 178-193.	0.5	4
29	Maximizing the sum of integers when their sum of squares is fixed. Optimization, 1988, 19, 123-131.	1.0	2
30	Some properties of matrix-variate Laplace transforms and matrix-variate Whittaker functions. Linear Algebra and Its Applications, 1997, 253, 209-226.	0.4	2
31	A whittaker function of matrix argument. Linear Algebra and Its Applications, 1998, 269, 91-103.	0.4	2
32	ErdÃ©lyi-Kober fractional integral operators from a statistical perspective -II. Cogent Mathematics, 2017, 4, 1309769.	0.4	2
33	Hypergeometric Functions of Many Matrix Variables and Distributions of Generalized Quadratic Forms. American Journal of Mathematical and Management Sciences, 1995, 15, 343-354.	0.6	1
34	Generalized Boltzmann factors induced by Weibull-type distributions. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 545-551.	1.2	1
35	Analytical study of thermonuclear reaction probability integrals. Astrophysics and Space Science, 2000, 273, 43-52.	0.5	0