Plamen Koev

List of Publications by Year
in descending order

24 papers	835 citations	567281 15 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	305 citing authors

#	Article	IF	Citations
1	The efficient evaluation of the hypergeometric function of a matrix argument. Mathematics of Computation, 2006, 75, 833-847.	2.1	134
2	Accurate Eigenvalues and SVDs of Totally Nonnegative Matrices. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 1-23.	1.4	116
3	The Accurate and Efficient Solution of a Totally Positive Generalized Vandermonde Linear System. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 142-152.	1.4	112
4	Accurate Computations with Totally Nonnegative Matrices. SIAM Journal on Matrix Analysis and Applications, 2007, 29, 731-751.	1.4	105
5	Accurate and efficient expression evaluation and linear algebra. Acta Numerica, 2008, 17, 87-145.	10.7	49
6	On the largest principal angle between random subspaces. Linear Algebra and Its Applications, 2006, 414, 288-294.	0.9	45
7	Accurate SVDs of weakly diagonally dominant M-matrices. Numerische Mathematik, 2004, 98, 99-104.	1.9	40
8	Accurate SVDs of polynomial Vandermonde matrices involving orthonormal polynomials. Linear Algebra and Its Applications, 2006, 417, 382-396.	0.9	29
9	Accurate Symmetric Rank Revealing and Eigendecompositions of Symmetric Structured Matrices. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 1126-1156.	1.4	26
10	Perturbation theory for the LDU factorization and accurate computations for diagonally dominant matrices. Numerische Mathematik, 2011, 119, 337-371.	1.9	26
11	Distributions of the Extreme Eigenvaluesof Betaâ€"Jacobi Random Matrices. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 1-6.	1.4	25
12	Implicit standard Jacobi gives high relative accuracy. Numerische Mathematik, 2009, 113, 519-553.	1.9	23
13	Accurate eigenvalues of certain sign regular matrices. Linear Algebra and Its Applications, 2007, 424, 435-447.	0.9	21
14	Accurate and efficient evaluation of Schur and Jack functions. Mathematics of Computation, 2005, 75, 223-240.	2.1	19
15	LDU Factorization of Nonsingular Totally Nonpositive Matrices. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 777-782.	1.4	17
16	The beta-Wishart ensemble. Journal of Mathematical Physics, 2013, 54, 083507.	1.1	12
17	Eigenvalue distributions of beta-Wishart matrices. Random Matrices: Theory and Application, 2014, 03, 1450009.	1.1	7
18	Computational Approach to Polynomial Identities of Matrices â€" a Survey. , 2003, , .		6

#	Article	IF	Citations
19	On computing Schur functions and series thereof. Journal of Algebraic Combinatorics, 2019, 50, 127-141.	0.8	5
20	Generic 2 Ã— 2 matrices in positive characteristic. Journal of Algebra, 2000, 225, 451-486.	0.7	4
21	Accurate eigenvalues and exact zero Jordan blocks of totally nonnegative matrices. Numerische Mathematik, 2019, 141, 693-713.	1.9	4
22	Densities of the extreme eigenvalues of Betaâ€"MANOVA matrices. Random Matrices: Theory and Application, 2019, 08, 1950002.	1.1	3
23	Bidiagonal decompositions of oscillating systems of vectors. Linear Algebra and Its Applications, 2008, 428, 2536-2548.	0.9	2
24	The densities and distributions of the largest eigenvalue and the trace of a Betaâ€"Wishart matrix. Random Matrices: Theory and Application, 2021, 10, 2150010.	1.1	0