Awad H Al-Mohy

List of Publications by Year
in descending order

		1163117	1125743
13 papers	855 citations	8 h-index	13 g-index
13 all docs	13 docs citations	13 times ranked	687 citing authors

#	Article	IF	Citations
1	Computing the Action of the Matrix Exponential, with an Application to Exponential Integrators. SIAM Journal of Scientific Computing, 2011, 33, 488-511.	2.8	321
2	A New Scaling and Squaring Algorithm for the Matrix Exponential. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 970-989.	1.4	215
3	Computing matrix functions. Acta Numerica, 2010, 19, 159-208.	10.7	72
4	Improved Inverse Scaling and Squaring Algorithms for the Matrix Logarithm. SIAM Journal of Scientific Computing, 2012, 34, C153-C169.	2.8	60
5	Computing the FrÃ©chet Derivative of the Matrix Exponential, with an Application to Condition Number Estimation. SIAM Journal on Matrix Analysis and Applications, 2009, 30, 1639-1657.	1.4	57
6	Computing the FrÃ©chet Derivative of the Matrix Logarithm and Estimating the Condition Number. SIAM Journal of Scientific Computing, 2013, 35, C394-C410.	2.8	43
7	The complex step approximation to the FrÃ©chet derivative of a matrix function. Numerical Algorithms, 2010, 53, 133-148.	1.9	41
8	New Algorithms for Computing the Matrix Sine and Cosine Separately or Simultaneously. SIAM Journal of Scientific Computing, 2015, 37, A456-A487.	2.8	27
9	A Truncated Taylor Series Algorithm for Computing the Action of Trigonometric and Hyperbolic Matrix Functions. SIAM Journal of Scientific Computing, 2018, 40, A1696-A1713.	2.8	8
10	A more accurate Briggs method for the logarithm. Numerical Algorithms, 2012, 59, 393-402.	1.9	4
11	The complex step approximation to the higher order FrÃ©chet derivatives of a matrix function. Numerical Algorithms, 2021, 87, 1061-1074.	1.9	3
12	Arbitrary Precision Algorithms for Computing the Matrix Cosine and its FrÃ©chet Derivative. SIAM Journal on Matrix Analysis and Applications, 2022, 43, 233-256.	1.4	3
13	An efficient bound for the condition number of the matrix exponential. Journal of Taibah University for Science, 2017, 11, 280-289.	2.5	1