Awad H Al-Mohy

List of Publications by Year
in descending order

13 papers	855 citations	1162367 8 h-index	1125271 13 g-index
13 all docs	13 docs citations	13 times ranked	687 citing authors

#	Article	IF	Citations
1	Arbitrary Precision Algorithms for Computing the Matrix Cosine and its Fréchet Derivative. SIAM Journal on Matrix Analysis and Applications, 2022, 43, 233-256.	0.7	3
2	The complex step approximation to the higher order Fréchet derivatives of a matrix function. Numerical Algorithms, 2021, 87, 1061-1074.	1.1	3
3	A Truncated Taylor Series Algorithm for Computing the Action of Trigonometric and Hyperbolic Matrix Functions. SIAM Journal of Scientific Computing, 2018, 40, A1696-A1713.	1.3	8
4	An efficient bound for the condition number of the matrix exponential. Journal of Taibah University for Science, 2017, 11, 280-289.	1.1	1
5	New Algorithms for Computing the Matrix Sine and Cosine Separately or Simultaneously. SIAM Journal of Scientific Computing, 2015, 37, A456-A487.	1.3	27
6	Computing the Fréchet Derivative of the Matrix Logarithm and Estimating the Condition Number. SIAM Journal of Scientific Computing, 2013, 35, C394-C410.	1.3	43
7	Improved Inverse Scaling and Squaring Algorithms for the Matrix Logarithm. SIAM Journal of Scientific Computing, 2012, 34, C153-C169.	1.3	60
8	A more accurate Briggs method for the logarithm. Numerical Algorithms, 2012, 59, 393-402.	1.1	4
9	Computing the Action of the Matrix Exponential, with an Application to Exponential Integrators. SIAM Journal of Scientific Computing, 2011, 33, 488-511.	1.3	321
10	The complex step approximation to the Fréchet derivative of a matrix function. Numerical Algorithms, 2010, 53, 133-148.	1.1	41
11	Computing matrix functions. Acta Numerica, 2010, 19, 159-208.	6.3	72
12	A New Scaling and Squaring Algorithm for the Matrix Exponential. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 970-989.	0.7	215
13	Computing the Fréchet Derivative of the Matrix Exponential, with an Application to Condition Number Estimation. SIAM Journal on Matrix Analysis and Applications, 2009, 30, 1639-1657.	0.7	57