

# Homer F Walker

## List of Publications by Year in descending order

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31  
papers

5,047  
citations

411340

20  
h-index

466096

32  
g-index

32  
all docs

32  
docs citations

32  
times ranked

3337  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerating the Uzawa Algorithm. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, S461-S476.	1.3	11
2	Anderson acceleration and application to the three-temperature energy equations. <i>Journal of Computational Physics</i> , 2017, 347, 1-19.	1.9	34
3	Anderson Acceleration for Fixed-Point Iterations. <i>SIAM Journal on Numerical Analysis</i> , 2011, 49, 1715-1735.	1.1	358
4	Inexact Newton Dogleg Methods. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 2112-2132.	1.1	21
5	On Using Approximate Finite Differences in Matrix-Free Newton-Krylov Methods. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 1892-1911.	1.1	12
6	Globalization Techniques for Newton-Krylov Methods and Applications to the Fully Coupled Solution of the Navier-Stokes Equations. <i>SIAM Review</i> , 2006, 48, 700-721.	4.2	57
7	On Backtracking Failure in Newton-GMRES Methods with a Demonstration for the Navier-Stokes Equations. <i>Journal of Computational Physics</i> , 2002, 180, 549-558.	1.9	34
8	An Adaptation of Krylov Subspace Methods to Path Following Problems. <i>SIAM Journal of Scientific Computing</i> , 1999, 21, 1191-1198.	1.3	12
9	A new adaptive GMRES algorithm for achieving high accuracy. <i>Numerical Linear Algebra With Applications</i> , 1998, 5, 275-297.	0.9	19
10	NITSOL: A Newton Iterative Solver for Nonlinear Systems. <i>SIAM Journal of Scientific Computing</i> , 1998, 19, 302-318.	1.3	209
11	Algorithm 777: HOMPAC90. <i>ACM Transactions on Mathematical Software</i> , 1997, 23, 514-549.	1.6	137
12	GMRES On (Nearly) Singular Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1997, 18, 37-51.	0.7	143
13	An Inexact Newton Method for Fully Coupled Solution of the Navier-Stokes Equations with Heat and Mass Transport. <i>Journal of Computational Physics</i> , 1997, 137, 155-185.	1.9	60
14	Choosing the Forcing Terms in an Inexact Newton Method. <i>SIAM Journal of Scientific Computing</i> , 1996, 17, 16-32.	1.3	547
15	Residual smoothing and peak/plateau behavior in Krylov subspace methods. <i>Applied Numerical Mathematics</i> , 1995, 19, 279-286.	1.2	18
16	A simpler GMRES. <i>Numerical Linear Algebra With Applications</i> , 1994, 1, 571-581.	0.9	77
17	Globally Convergent Inexact Newton Methods. <i>SIAM Journal on Optimization</i> , 1994, 4, 393-422.	1.2	345
18	Residual Smoothing Techniques for Iterative Methods. <i>SIAM Journal of Scientific Computing</i> , 1994, 15, 297-312.	1.3	75

#	ARTICLE	IF	CITATIONS
19	Efficient High Accuracy Solutions with $\{\text{ext}\{\text{GMRES}\}\}(m)$ . SIAM Journal on Scientific and Statistical Computing, 1992, 13, 815-825.	1.5	31
20	Least-Change Secant Updates of Nonsquare Matrices. SIAM Journal on Numerical Analysis, 1990, 27, 1263-1294.	1.1	4
21	Least-Change Secant Update Methods for Underdetermined Systems. SIAM Journal on Numerical Analysis, 1990, 27, 1227-1262.	1.1	46
22	Implementations of the GMRES method. Computer Physics Communications, 1989, 53, 311-320.	3.0	20
23	Implementation of the GMRES Method Using Householder Transformations. SIAM Journal on Scientific and Statistical Computing, 1988, 9, 152-163.	1.5	195
24	Least-Change Sparse Secant Update Methods with Inaccurate Secant Conditions. SIAM Journal on Numerical Analysis, 1985, 22, 760-778.	1.1	13
25	Mixture Densities, Maximum Likelihood and the EM Algorithm. SIAM Review, 1984, 26, 195-239.	4.2	2,194
26	Convergence Theorems for Least-Change Secant Update Methods. SIAM Journal on Numerical Analysis, 1981, 18, 949-987.	1.1	125
27	Estimating the proportions of two populations in a mixture using linear maps. Communications in Statistics - Theory and Methods, 1980, 9, 837-849.	0.6	4
28	An Iterative Procedure for Obtaining Maximum-Likelihood Estimates of the Parameters for a Mixture of Normal Distributions. SIAM Journal on Applied Mathematics, 1978, 35, 362-378.	0.8	59
29	The Numerical Evaluation of the Maximum-Likelihood Estimate of a Subset of Mixture Proportions. SIAM Journal on Applied Mathematics, 1978, 35, 447-452.	0.8	11
30	On the null-spaces of partially elliptic operators of a certain type. Journal of Mathematical Analysis and Applications, 1976, 55, 375-379.	0.5	1
31	The null spaces of elliptic partial differential operators in $R^n$ . Journal of Mathematical Analysis and Applications, 1973, 42, 271-301.	0.5	146