

# Miroslav Rozloznik

## List of Publications by Year in descending order

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25  
papers

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citations

1163117

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h-index

888059

17  
g-index

25  
all docs

25  
docs citations

25  
times ranked

211  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rounding error analysis of the classical Gram-Schmidt orthogonalization process. <i>Numerische Mathematik</i> , 2005, 101, 87-100.	1.9	82
2	Modified Gram-Schmidt (MGS), Least Squares, and Backward Stability of MGS-GMRES. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2006, 28, 264-284.	1.4	74
3	On the Numerical Behavior of Matrix Splitting Iteration Methods for Solving Linear Systems. <i>SIAM Journal on Numerical Analysis</i> , 2015, 53, 1716-1737.	2.3	23
4	How to Make Simpler GMRES and GCR More Stable. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2009, 30, 1483-1499.	1.4	19
5	Numerical stability of orthogonalization methods with a non-standard inner product. <i>BIT Numerical Mathematics</i> , 2012, 52, 1035-1058.	2.0	19
6	Adaptive version of Simpler GMRES. <i>Numerical Algorithms</i> , 2010, 53, 93-112.	1.9	14
7	Block Gram-Schmidt algorithms and their stability properties. <i>Linear Algebra and Its Applications</i> , 2022, 638, 150-195.	0.9	12
8	Partitioned Triangular Tridiagonalization. <i>ACM Transactions on Mathematical Software</i> , 2011, 37, 1-16.	2.9	11
9	By How Much Can Residual Minimization Accelerate the Convergence of Orthogonal Residual Methods?. <i>Numerical Algorithms</i> , 2001, 27, 189-213.	1.9	10
10	Saddle-Point Problems and Their Iterative Solution. <i>Nec̆as Center Series</i> , 2018, , .	1.0	9
11	The Stability of Block Variants of Classical Gram-Schmidt. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2021, 42, 1365-1380.	1.4	8
12	Maximum Attainable Accuracy of Inexact Saddle Point Solvers. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2008, 29, 1297-1321.	1.4	7
13	Approximate inverse preconditioners with adaptive dropping. <i>Advances in Engineering Software</i> , 2015, 84, 13-20.	3.8	5
14	Factorized Approximate Inverses with Adaptive Dropping. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, A1807-A1820.	2.8	5
15	Limiting accuracy of segregated solution methods for nonsymmetric saddle point problems. <i>Journal of Computational and Applied Mathematics</i> , 2008, 215, 28-37.	2.0	4
16	G-matrices, J-orthogonal matrices, and their sign patterns. <i>Czechoslovak Mathematical Journal</i> , 2016, 66, 653-670.	0.3	4
17	An adaptive multilevel factorized sparse approximate inverse preconditioning. <i>Advances in Engineering Software</i> , 2017, 113, 19-24.	3.8	4
18	Analysis of the self projected matching pursuit algorithm. <i>Journal of the Franklin Institute</i> , 2020, 357, 8980-8994.	3.4	3

#	ARTICLE	IF	CITATIONS
19	A note on iterative refinement for seminormal equations. Applied Numerical Mathematics, 2014, 75, 167-174.	2.1	1
20	Sign patterns of J-orthogonal matrices. Special Matrices, 2017, 5, 225-241.	0.5	1
21	A note on adaptivity in factorized approximate inverse preconditioning. Analele Stiintifice Ale Universitatii Ovidius Constanta, Seria Matematica, 2020, 28, 149-159.	0.3	1
22	Miroslav Fiedler (7.4.1926–20.11.2015). Czechoslovak Mathematical Journal, 2016, 66, 585-590.	0.3	0
23	Solution Approaches for Saddle-Point Problems. NeclEas Center Series, 2018, , 33-39.	1.0	0
24	Numerical Behavior of Saddle-Point Solvers. NeclEas Center Series, 2018, , 79-101.	1.0	0
25	Nearly optimal scaling in the SR decomposition. Linear Algebra and Its Applications, 2021, 613, 295-319.	0.9	0