

Hugo J Woerdeman

List of Publications by Year in descending order

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37
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416
citing authors

#	ARTICLE	IF	CITATIONS
1	Parametrized quasi-soft thresholding operator for compressed sensing and matrix completion. Computational and Applied Mathematics, 2020, 39, 1.	2.2	194
2	Positive extensions, Fejér-Riesz factorization and autoregressive filters in two variables. Annals of Mathematics, 2004, 160, 839-906.	4.2	70
3	The higher rank numerical range is convex. Linear and Multilinear Algebra, 2008, 56, 65-67.	1.0	46
4	Inertia and Rank Characterizations of Some Matrix Expressions. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 1187-1226.	1.4	30
5	Classes of tuples of commuting contractions satisfying the multivariable von Neumann inequality. Journal of Functional Analysis, 2009, 256, 3035-3054.	1.4	29
6	Minimal rank completions of partial banded matrices. Linear and Multilinear Algebra, 1993, 36, 59-68.	1.0	28
7	Carathéodory-Toeplitz and Nehari problems for matrix valued almost periodic functions. Transactions of the American Mathematical Society, 1998, 350, 2185-2227.	0.9	25
8	Stable and real-zero polynomials in two variables. Multidimensional Systems and Signal Processing, 2016, 27, 1-26.	2.6	24
9	A new iterative firm-thresholding algorithm for inverse problems with sparsity constraints. Applied and Computational Harmonic Analysis, 2013, 35, 151-164.	2.2	20
10	The truncated matrix-valued K -moment problem on \mathbb{R}^d , \mathbb{C}^d , and \mathbb{T}^d . Transactions of the American Mathematical Society, 2013, 365, 5393-5430.	0.9	17
11	Maximum Entropy Elements in the Intersection of an Affine Space and the Cone of Positive Definite Matrices. SIAM Journal on Matrix Analysis and Applications, 1995, 16, 369-376.	1.4	16
12	Two Variable Orthogonal Polynomials on the BiCircle and Structured Matrices. SIAM Journal on Matrix Analysis and Applications, 2007, 29, 796-825.	1.4	16
13	Outer factorizations in one and several variables. Transactions of the American Mathematical Society, 2005, 357, 4661-4679.	0.9	14
14	Norm-Constrained Determinantal Representations of Multivariable Polynomials. Complex Analysis and Operator Theory, 2013, 7, 635-654.	0.6	14
15	Hermitian and normal completions. Linear and Multilinear Algebra, 1997, 42, 239-280.	1.0	12
16	Bounds for eigenvalues and singular values of matrix completions. Linear and Multilinear Algebra, 1992, 33, 233-249.	1.0	10
17	Contractive determinantal representations of stable polynomials on a matrix polyball. Mathematische Zeitschrift, 2016, 283, 25-37.	0.9	9
18	The Operator Valued Autoregressive Filter Problem and the Suboptimal Nehari Problem in Two Variables. Integral Equations and Operator Theory, 2005, 53, 343-361.	0.8	6

#	ARTICLE	IF	CITATIONS
19	Non-minimal factorization of nonlinear systems: the observable case. <i>International Journal of Control</i> , 1996, 63, 1069-1104.	1.9	4
20	Positive Carathéodory interpolation on the polydisc. <i>Integral Equations and Operator Theory</i> , 2002, 42, 229-242.	0.8	4
21	A General Christoffel-Darboux Type Formula. <i>Integral Equations and Operator Theory</i> , 2010, 67, 203-213.	0.8	4
22	Matrices with normal defect one. <i>Operators and Matrices</i> , 2009, , 401-438.	0.3	4
23	Estimates of inverses of multivariable Toeplitz matrices. <i>Operators and Matrices</i> , 2008, , 507-515.	0.3	3
24	Rational Inner Functions on a Square-Matrix Polyball. <i>Association for Women in Mathematics Series</i> , 2017, , 267-277.	0.4	3
25	Real zero polynomials and A. Horn's problem. <i>Linear Algebra and Its Applications</i> , 2018, 552, 147-158.	0.9	2
26	Fractional minimal rank. <i>Linear and Multilinear Algebra</i> , 2021, 69, 19-39.	1.0	2
27	Spectral density functions of bivariable stable polynomials. <i>Ramanujan Journal</i> , 2021, 56, 265-295.	0.7	2
28	Isospectrality and matrices with concentric circular higher rank numerical ranges. <i>Linear Algebra and Its Applications</i> , 2021, 631, 174-180.	0.9	2
29	A research problem:. <i>Linear and Multilinear Algebra</i> , 1996, 41, 41-47.	1.0	1
30	The normal defect of some classes of matrices. <i>Linear Algebra and Its Applications</i> , 2013, 438, 3530-3546.	0.9	1
31	A Linear-algebraic Proof of Hilbert's Ternary Quartic Theorem. <i>American Mathematical Monthly</i> , 2019, 126, 620-627.	0.3	1
32	Location of Ritz values in the numerical range of normal matrices. <i>Linear and Multilinear Algebra</i> , 2020, , 1-30.	1.0	1
33	Determinantal Representations of Stable Polynomials. <i>Operator Theory: Advances and Applications</i> , 2013, , 241-246.	0.2	1
34	Minimal Realizations and Determinantal Representations in the Indefinite Setting. <i>Integral Equations and Operator Theory</i> , 2022, 94, 1.	0.8	1
35	On the preservers of maximally entangled states. <i>Linear Algebra and Its Applications</i> , 2019, 583, 171-194.	0.9	0
36	Continuity of submatrices and Ritz sets associated to a point in the numerical range. <i>Linear Algebra and Its Applications</i> , 2021, 624, 1-13.	0.9	0