

# Nestor Thome

## List of Publications by Year in descending order

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75  
papers

964  
citations

489802

18  
h-index

563245

28  
g-index

75  
all docs

75  
docs citations

75  
times ranked

218  
citing authors

#	ARTICLE	IF	CITATIONS
1	On a new generalized inverse for matrices of an arbitrary index. Applied Mathematics and Computation, 2014, 226, 575-580.	1.4	110
2	Revisiting the core EP inverse and its extension to rectangular matrices. Quaestiones Mathematicae, 2018, 41, 265-281.	0.2	85
3	Maximal classes of matrices determining generalized inverses. Applied Mathematics and Computation, 2018, 333, 42-52.	1.4	47
4	Characterizations of $k$ -commutative equalities for some outer generalized inverses. Linear and Multilinear Algebra, 2020, 68, 177-192.	0.5	38
5	A geometrical approach on generalized inverses by Neumann-type series. Linear Algebra and Its Applications, 2001, 332-334, 533-540.	0.4	34
6	The diamond partial order in rings. Linear and Multilinear Algebra, 2014, 62, 386-395.	0.5	29
7	Idempotency of linear combinations of an idempotent matrix and a $t$ -potent matrix that commute. Linear Algebra and Its Applications, 2005, 403, 414-418.	0.4	28
8	Further properties on the core partial order and other matrix partial orders. Linear and Multilinear Algebra, 2014, 62, 1629-1648.	0.5	28
9	The generalized Schur complement in group inverses and $(k+1)$ -potent matrices. Linear and Multilinear Algebra, 2006, 54, 405-413.	0.5	24
10	Characterizations and linear combinations of $k$ -generalized projectors. Linear Algebra and Its Applications, 2005, 410, 150-159.	0.4	23
11	$\{k\}$ -Group Periodic Matrices. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 9-25.	0.7	23
12	An algorithm to check the nonnegativity of singular systems. Applied Mathematics and Computation, 2007, 189, 355-365.	1.4	23
13	The class of $m$ -EP and $m$ -normal matrices. Linear and Multilinear Algebra, 2016, 64, 2119-2132.	0.5	23
14	On a partial order defined by the weighted Moore-Penrose inverse. Applied Mathematics and Computation, 2013, 219, 7310-7318.	1.4	22
15	On some new pre-orders defined by weighted Drazin inverses. Applied Mathematics and Computation, 2016, 282, 108-116.	1.4	22
16	The star partial order and the eigenprojection at 0 on EP matrices. Applied Mathematics and Computation, 2012, 218, 10669-10678.	1.4	21
17	Weighted binary relations involving the Drazin inverse. Applied Mathematics and Computation, 2015, 253, 215-223.	1.4	21
18	Group inverse and group involutory Matrices. Linear and Multilinear Algebra, 1998, 45, 207-218.	0.5	19

#	ARTICLE	IF	CITATIONS
19	Oblique projectors and group involutory matrices. Applied Mathematics and Computation, 2003, 140, 517-522.	1.4	18
20	A weak group inverse for rectangular matrices. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2019, 113, 3727-3740.	0.6	18
21	Generalized inverses and a block-rank equation. Applied Mathematics and Computation, 2003, 141, 471-476.	1.4	17
22	The inverse eigenvalue problem for a Hermitian reflexive matrix and the optimization problem. Journal of Computational and Applied Mathematics, 2016, 291, 449-457.	1.1	17
23	A note on $k$ -generalized projections. Linear Algebra and Its Applications, 2007, 420, 572-575.	0.4	16
24	Characterizations of $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x" \rangle$	0.4	16
25	Relationships between different sets involving group and Drazin projectors and nonnegativity. Linear Algebra and Its Applications, 2013, 438, 1688-1699.	0.4	16
26	Weighted G-Drazin inverses and a new pre-order on rectangular matrices. Applied Mathematics and Computation, 2018, 317, 12-24.	1.4	16
27	Idempotency of linear combinations of an idempotent matrix and a $\langle b \rangle \langle i \rangle \langle /i \rangle \langle /b \rangle$ -potent matrix that do not commute. Linear and Multilinear Algebra, 2008, 56, 679-687.	0.5	14
28	Nonnegativity, stability, and regularization of discrete-time descriptor systems. Linear Algebra and Its Applications, 2010, 432, 837-846.	0.4	11
29	Inverse eigenvalue problem for normal $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"} \langle \text{mml:mi} \rangle \langle /mml:mi \rangle \langle /mml:math \rangle$ -hamiltonian using the GSVD and the lifting technique to find $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" display="inline" overflow="scroll"} \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \{ \langle /mml:mo \rangle \langle \text{mml:mi} \rangle P \langle /mml:mi \rangle \langle \text{mml:mo} \rangle, \langle /mml:mo \rangle \langle \text{mml:mi} \rangle k \langle /mml:mi \rangle \langle \text{mml:mo} \rangle + \langle /mml:mrow \rangle \langle /mml:math \rangle$	1.5	11
30	and anti-reflexive solutions of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" display="inline" altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x" \rangle$	1.5	9
31	Sharp partial order and linear autonomous systems. Applied Mathematics and Computation, 2020, 366, 124736.	0.4	9
32	Sharp partial order and linear autonomous systems. Applied Mathematics and Computation, 2020, 366, 124736.	1.4	9
33	A dynamic model for a study of diabetes. Mathematical and Computer Modelling, 2009, 50, 713-716.	2.0	8
34	New matrix partial order based on spectrally orthogonal matrix decomposition. Linear and Multilinear Algebra, 2016, 64, 362-374.	0.5	8
35	The weak core inverse. Aequationes Mathematicae, 2021, 95, 351-373.	0.4	8
36	Balancing singular discrete-time systems. Applied Mathematics Letters, 2000, 13, 7-13.	1.5	7

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37	Output feedback stabilization for symmetric control systems. Journal of the Franklin Institute, 2005, 342, 814-823.	1.9	7
38	Algorithms for $\{K, s+1\}$ -potent matrix constructions. Journal of Computational and Applied Mathematics, 2013, 249, 157-162.	1.1	7
39	From projectors to 1MP and MP1 generalized inverses and their induced partial orders. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2021, 115, 1.	0.6	7
40	Symmetric singular linear control systems. Applied Mathematics Letters, 2002, 15, 671-675.	1.5	5
41	Applications of differential geometry to cartography. International Journal of Mathematical Education in Science and Technology, 2004, 35, 29-38.	0.8	5
42	Nilpotent matrices and the minus partial order. Quaestiones Mathematicae, 2017, 40, 519-525.	0.2	5
43	On the minus partial order in control systems. Applied Mathematics and Computation, 2020, 386, 125529.	1.4	5
44	Parametrized solutions $XX$ of the system $AXA = AY A$ and $A^k Y AX = XAY A^k$ . Electronic Journal of Linear Algebra, 0, 35, 503-510.	0.6	5
45	Compensating periodic descriptor systems. Systems and Control Letters, 2001, 43, 133-139.	1.3	4
46	Gramian matrices and balanced model of generalized systems. Applied Mathematics and Computation, 2004, 148, 341-350.	1.4	4
47	Matrices $A$ such that $RA=As+1R$ when $Rk=I$ . Linear Algebra and Its Applications, 2013, 439, 1017-1023.	0.4	4
48	A simultaneous canonical form of a pair of matrices and applications involving the weighted Moore-Penrose inverse. Applied Mathematics Letters, 2016, 53, 112-118.	1.5	4
49	GDMP-inverses of a matrix and their duals. Linear and Multilinear Algebra, 2022, 70, 3923-3935.	0.5	4
50	Characterizations and perturbation analysis of a class of matrices related to core-EP inverses. Journal of Computational and Applied Mathematics, 2021, 393, 113496.	1.1	4
51	When is the hermitian/skew-hermitian part of a matrix a potent matrix?. Electronic Journal of Linear Algebra, 0, 24, .	0.6	4
52	Nonnegative singular control systems using the Drazin projector. Applied Mathematics Letters, 2013, 26, 799-803.	1.5	3
53	Special elements in a ring related to Drazin inverses. Linear and Multilinear Algebra, 2013, 61, 1017-1027.	0.5	3
54	Generalized centro-invertible matrices with applications. Applied Mathematics Letters, 2014, 38, 106-109.	1.5	3

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55	On a matrix group constructed from an $\{R,s+1,k\}$ -potent matrix. Linear Algebra and Its Applications, 2014, 461, 200-210.	0.4	3
56	Inequalities and equalities for $\hat{a}, " = \hat{A}^2$ (Sylvester), $\hat{a}, " = \hat{A}^3$ (Frobenius), and $\hat{a}, " > \hat{A}^3$ matrices. Aequationes Mathematicae, 2016, 90, 951-960.	0.4	3
57	Matrices $A$ such that $A+1R\hat{a}^{-}=\hat{a}^{-}RA\hat{a}^{\check{}}$ with $R\hat{a}^{-}=\hat{a}^{-}1$ . Linear Algebra and Its Applications, 2018, 552, 85-104.	0.4	3
58	The $W$ -weighted Drazin-star matrix and its dual. Electronic Journal of Linear Algebra, 2021, 37, 72-87.	0.6	3
59	Properties of a matrix group associated to a $\{K,s+1\}$ -potent matrix. Electronic Journal of Linear Algebra, 0, 24, .	0.6	3
60	Solving an Open Problem About the $G$ -Drazin Partial Order. Electronic Journal of Linear Algebra, 2020, 36, 55-66.	0.6	3
61	On a revisited Moore-Penrose inverse of a linear operator on Hilbert spaces. Filomat, 2017, 31, 1927-1931.	0.2	3
62	An algorithm to study the nonnegativity, regularity and stability via state-feedbacks of singular systems of arbitrary index. Linear and Multilinear Algebra, 2015, 63, 882-892.	0.5	2
63	Algorithms for solving the inverse problem associated with $KAK=As+1$ . Journal of Computational and Applied Mathematics, 2017, 309, 333-341.	1.1	2
64	Left and right generalized Drazin invertible operators on Banach spaces and applications. Operators and Matrices, 2019, , 569-583.	0.1	2
65	The $\langle i \rangle W \langle /i \rangle$ -weighted BT inverse. Quaestiones Mathematicae, 2023, 46, 359-374.	0.2	2
66	An algorithm for normalizing variable control systems. Applied Mathematics and Computation, 2007, 192, 439-445.	1.4	1
67	Drazin inverse based numerical methods for singular linear differential systems. Advances in Engineering Software, 2012, 50, 37-43.	1.8	1
68	Spectral study of $\{R,s+1,k\}$ - and $\{R,s+1,k,\hat{a}^{\check{}}\}$ -potent matrices. Journal of Computational and Applied Mathematics, 2020, 373, 112414.	1.1	1
69	Nonnegativity of Control Singular Systems via State-Feedbacks. , 0, , 25-32.		1
70	Further results on generalized centro-invertible matrices. Numerical Algorithms, 2019, 80, 1309-1328.	1.1	0
71	Ordered matrices with nonnegative group projector. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2020, 114, 1.	0.6	0
72	Pole-assignment of discrete time-delay systems with symmetries. Discrete and Continuous Dynamical Systems - Series B, 2006, 6, 641-649.	0.5	0

#	ARTICLE	IF	CITATIONS
73	Characterization of Matrices with Nonnegative Group-Projector. Lecture Notes in Control and Information Sciences, 2009, , 315-320.	0.6	0
74	Representations of the weighted WG inverse and a rank equation's solution. Linear and Multilinear Algebra, 2023, 71, 226-241.	0.5	0
75	Numerical Methods for Singular Linear Differential Systems. , 0, , .		0