

Julio BenÃ-tez

List of Publications by Year in descending order

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77
papers

929
citations

516215

16
h-index

552369

26
g-index

77
all docs

77
docs citations

77
times ranked

453
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving matrix consistency in AHP through linearization. Applied Mathematical Modelling, 2011, 35, 4449-4457.	2.2	72
2	Balancing consistency and expert judgment in AHP. Mathematical and Computer Modelling, 2011, 54, 1785-1790.	2.0	58
3	Improving consistency in AHP decision-making processes. Applied Mathematics and Computation, 2012, 219, 2432-2441.	1.4	50
4	An approach to AHP decision in a dynamic context. Decision Support Systems, 2012, 53, 499-506.	3.5	42
5	A simple formula to find the closest consistent matrix to a reciprocal matrix. Applied Mathematical Modelling, 2014, 38, 3968-3974.	2.2	38
6	Joint stakeholder decision-making on the management of the Silao-Romita aquifer using AHP. Environmental Modelling and Software, 2014, 51, 310-322.	1.9	36
7	The generalized inverses of tensors and an application to linear models. Computers and Mathematics With Applications, 2017, 74, 385-397.	1.4	32
8	Moore-Penrose inverses and commuting elements of C -algebras. Journal of Mathematical Analysis and Applications, 2008, 345, 766-770.	0.5	29
9	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
10	Consistent completion of incomplete judgments in decision making using AHP. Journal of Computational and Applied Mathematics, 2015, 290, 412-422.	1.1	28
11	ON ONE-SIDED (B;C)-INVERSES OF ARBITRARY MATRICES. Electronic Journal of Linear Algebra, 0, 32, 391-422.	0.6	28
12	Idempotency of linear combinations of three idempotent matrices, two of which are commuting. Linear Algebra and Its Applications, 2007, 424, 320-337.	0.4	25
13	The generalized Schur complement in group inverses and $(k+1)$ -potent matrices. Linear and Multilinear Algebra, 2006, 54, 405-413.	0.5	24
14	Multi-criteria optimization of supply schedules in intermittent water supply systems. Journal of Computational and Applied Mathematics, 2017, 309, 695-703.	1.1	24
15	Characterizations and linear combinations of k -generalized projectors. Linear Algebra and Its Applications, 2005, 410, 150-159.	0.4	23
16	$\{k\}$ -Group Periodic Matrices. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 9-25.	0.7	23
17	The inverse along an element in rings with an involution, Banach algebras and A -algebras. Linear and Multilinear Algebra, 2017, 65, 284-299.	0.5	17
18	The inverse along an element in rings. Electronic Journal of Linear Algebra, 0, 31, 572-592.	0.6	16

#	ARTICLE	IF	CITATIONS
19	Matrices A such that $AA^{\sim}A \in A$ are nonsingular. Applied Mathematics and Computation, 2010, 217, 3493-3503.	1.4	15
20	Idempotency of linear combinations of an idempotent matrix and a $\langle b \rangle$ -potent matrix that do not commute. Linear and Multilinear Algebra, 2008, 56, 679-687.	0.5	14
21	EP Elements in Rings with Involution. Bulletin of the Malaysian Mathematical Sciences Society, 2019, 42, 3409-3426.	0.4	14
22	Nonsingularity and group invertibility of linear combinations of two $\langle b \rangle$ -potent matrices. Linear and Multilinear Algebra, 2010, 58, 1023-1035.	0.5	13
23	Applications of CS decomposition in linear combinations of two orthogonal projectors. Applied Mathematics and Computation, 2008, 203, 761-769.	1.4	12
24	Some results on partial ordering and reverse order law of elements of $\langle C \rangle$ -algebras. Journal of Mathematical Analysis and Applications, 2010, 370, 295-301.	0.5	11
25	Existence Criteria and Expressions of the (b, \hat{A}) -Inverse in Rings and Their Applications. Mediterranean Journal of Mathematics, 2018, 15, 1.	0.4	11
26	Consistent clustering of entries in large pairwise comparison matrices. Journal of Computational and Applied Mathematics, 2018, 343, 98-112.	1.1	11
27	Characterization of the consistent completion of analytic hierarchy process comparison matrices using graph theory. Journal of Multi-Criteria Decision Analysis, 2019, 26, 3-15.	1.0	11
28	A short proof of a matrix decomposition with applications. Linear Algebra and Its Applications, 2013, 438, 1398-1414.	0.4	10
29	A hybrid multi-criteria approach to GPR image mining applied to water supply system maintenance. Journal of Applied Geophysics, 2018, 159, 754-764.	0.9	10
30	New additive results for the generalized Drazin inverse in a Banach algebra. Filomat, 2016, 30, 2289-2294.	0.2	10
31	On the spectrum of linear combinations of two projections in C^* -algebras. Linear and Multilinear Algebra, 2010, 58, 673-679.	0.5	9
32	Additive results for the group inverse in an algebra with applications to block operators. Linear and Multilinear Algebra, 2011, 59, 279-289.	0.5	9
33	Management of uncertain pairwise comparisons in AHP through probabilistic concepts. Applied Soft Computing Journal, 2019, 78, 274-285.	4.1	9
34	Some results on matrix partial orderings and reverse order law. Electronic Journal of Linear Algebra, 20, .	0.6	9
35	Further results on the reverse order law for the group inverse in rings. Applied Mathematics and Computation, 2014, 229, 316-326.	1.4	8
36	I decide, therefore I am (relevant!): A project-based learning experience in linear algebra. Computer Applications in Engineering Education, 2016, 24, 481-492.	2.2	8

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37	A decision support system to assure high-performance maintenance service. <i>Journal of Quality in Maintenance Engineering</i> , 2021, 27, 651-670.	1.0	8
38	Constrained consistency enforcement in AHP. <i>Applied Mathematics and Computation</i> , 2020, 380, 125273.	1.4	8
39	A new decomposition for square matrices. <i>Electronic Journal of Linear Algebra</i> , 0, 20, .	0.6	8
40	Managing Human Factors to Reduce Organisational Risk in Industry. <i>Mathematical and Computational Applications</i> , 2018, 23, 67.	0.7	7
41	On the continuity and differentiability of the (dual) core inverse in C^* -algebras. <i>Linear and Multilinear Algebra</i> , 2020, 68, 686-709.	0.5	7
42	On the group inverse of linear combinations of two group invertible matrices. <i>Electronic Journal of Linear Algebra</i> , 0, 22, .	0.6	7
43	The absorption laws for the generalized inverses in rings. <i>Electronic Journal of Linear Algebra</i> , 0, 30, 827-842.	0.6	7
44	Projections for generalized inverses. <i>Linear and Multilinear Algebra</i> , 2018, 66, 1593-1605.	0.5	6
45	Invertibility of the commutator of an element in a C^* -algebra and its Moore-Penrose inverse. <i>Studia Mathematica</i> , 2010, 200, 163-174.	0.4	6
46	Applications of differential geometry to cartography. <i>International Journal of Mathematical Education in Science and Technology</i> , 2004, 35, 29-38.	0.8	5
47	On linear combinations of two commuting hypergeneralized projectors. <i>Computers and Mathematics With Applications</i> , 2008, 56, 2481-2489.	1.4	5
48	On nonsingularity of combinations of two group invertible matrices and two tripotent matrices. <i>Linear and Multilinear Algebra</i> , 2011, 59, 1409-1417.	0.5	5
49	Invertibility in rings of the commutator $ab^{\circ}a$, where $aba = a$ and $bab = b$. <i>Linear and Multilinear Algebra</i> , 2012, 60, 449-463.	0.5	5
50	On the continuity of the group inverse. <i>Operators and Matrices</i> , 2012, , 859-868.	0.1	5
51	Generalized core inverses of matrices. <i>Miskolc Mathematical Notes</i> , 2019, 20, 565.	0.3	5
52	Canonical angles and limits of sequences of EP and co-EP matrices. <i>Applied Mathematics and Computation</i> , 2012, 218, 8503-8512.	1.4	4
53	Characterization of Consistent Completion of Reciprocal Comparison Matrices. <i>Abstract and Applied Analysis</i> , 2014, 2014, 1-12.	0.3	4
54	On the continuity of the group inverse in C^* -algebras. <i>Banach Journal of Mathematical Analysis</i> , 2014, 8, 204-213.	0.4	4

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73	Design and use of a learning object for finding complex polynomial roots. International Journal of Mathematical Education in Science and Technology, 2013, 44, 365-376.	0.8	0
74	On nonsingularity of combinations of three group invertible matrices and three tripotent matrices. Linear and Multilinear Algebra, 2013, 61, 463-481.	0.5	0
75	Partial Orders Based on the CS Decomposition. Ukrainian Mathematical Journal, 2021, 72, 1294-1313.	0.1	0
76	Simultaneous decomposition of two EP matrices with applications. Electronic Journal of Linear Algebra, 0, 27, .	0.6	0
77	Some generalizations and probability versions of Samuelson's inequality. Mathematical Inequalities and Applications, 2017, , 1-12.	0.1	0