

Vakhtang Lomadze

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

145
citations

6
h-index

9
g-index

51
ext. papers

149
ext. citations

1.6
avg, IF

3.44
L-index

#	Paper	IF	Citations
50	When are linear differentiation-invariant spaces differential?. <i>Linear Algebra and Its Applications</i> , 2007 , 424, 540-554	0.9	19
49	Applications of vector bundles to factorization of rational matrices. <i>Linear Algebra and Its Applications</i> , 1999 , 288, 249-258	0.9	10
48	State and internal variables for linear systems. <i>Linear Algebra and Its Applications</i> , 2007 , 425, 534-547	0.9	8
47	On some basics of linear systems theory. <i>Systems and Control Letters</i> , 2009 , 58, 83-90	2.4	7
46	On duality for partial differential (and difference) equations. <i>Journal of Algebra</i> , 2004 , 275, 791-800	0.6	7
45	Smooth/impulsive linear systems: Axiomatic description. <i>Linear Algebra and Its Applications</i> , 2010 , 433, 1997-2009	0.9	6
44	Duality in the behavioral systems theory. <i>Automatica</i> , 2013 , 49, 1510-1514	5.7	5
43	On the regular feedback interconnection problem. <i>International Journal of Control</i> , 2006 , 79, 858-865	1.5	5
42	Axiomatic characterization of linear differential systems (and operators). <i>Automatica</i> , 2012 , 48, 815-819	5.7	4
41	"Reduced Polynomial Matrices" in Several Variables. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 3258-3273	1.9	4
40	The PBH test for multidimensional LTID systems. <i>Automatica</i> , 2013 , 49, 2933-2937	5.7	4
39	Controllability as Minimality. <i>SIAM Journal on Control and Optimization</i> , 2012 , 50, 357-367	1.9	4
38	ARMA-models and their equivalences. <i>International Journal of Control</i> , 2009 , 82, 2034-2039	1.5	4
37	(Generalised) autoregressive models and their trajectories. <i>International Journal of Control</i> , 2009 , 82, 1929-1936	1.5	4
36	Relative completeness and specifiedness properties of continuous linear dynamical systems. <i>Systems and Control Letters</i> , 2010 , 59, 695-703	2.4	4
35	Convolutional Codes and Coherent Sheaves. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 2001 , 12, 273-326	0.6	4
34	Linear systems, and ARMA- and Fliess models. <i>International Journal of Control</i> , 2010 , 83, 2165-2180	1.5	3

33	Linear systems with locally integrable trajectories. <i>Linear Algebra and Its Applications</i> , 2009 , 430, 2277-2289	2.8	3
32	Singular 2D Behaviors: Fornasini-Marchesini and Givone-Boesser Models. <i>Georgian Mathematical Journal</i> , 2009 , 16, 105-130	0.5	3
31	Singular Linear Behaviors and Their AR-Representations. <i>Mathematics of Control, Signals, and Systems</i> , 2001 , 14, 194-211	1.3	3
30	Fractional representations of linear systems. <i>Systems and Control Letters</i> , 2000 , 39, 275-281	2.4	3
29	Proper representations of (multivariate) linear differential systems. <i>Systems and Control Letters</i> , 2016 , 94, 25-30	2.4	3
28	Converting high order linear PDEs to first order. <i>Systems and Control Letters</i> , 2016 , 94, 107-110	2.4	3
27	Characterization of linear differential systems (in several variables). <i>Systems and Control Letters</i> , 2014 , 68, 20-24	2.4	2
26	A note on Ehrenpreis-Fundamental principle. <i>Linear Algebra and Its Applications</i> , 2013 , 438, 2083-2089	0.9	2
25	Lifting discrete trajectories. <i>Applied Mathematics Letters</i> , 2012 , 25, 1716-1720	3.5	2
24	On Homotopy and Similarity in Linear Systems Theory. <i>Acta Applicandae Mathematicae</i> , 2011 , 116, 87-105	5.1	2
23	How to define the dual of a higher-dimensional linear system. <i>Linear Algebra and Its Applications</i> , 2009 , 431, 2084-2101	0.9	2
22	A Behavioral Approach to Singular Systems. <i>Acta Applicandae Mathematicae</i> , 1998 , 54, 331-344	1.1	2
21	Linear constant coefficient differential (or difference) equations. <i>Journal of Pure and Applied Algebra</i> , 2000 , 147, 143-157	0.6	2
20	Linear system theory: An algebraist's point of view. <i>Systems and Control Letters</i> , 1996 , 29, 73-79	2.4	2
19	Polynomial solutions to linear PDEs with constant coefficients. <i>Georgian Mathematical Journal</i> , 2019 , 26, 287-293	0.5	2
18	Behaviors and symbols of rational matrices. <i>Systems and Control Letters</i> , 2012 , 61, 98-106	2.4	1
17	Rational differential operators and their kernels. <i>Linear Algebra and Its Applications</i> , 2011 , 435, 2870-2888	8.9	1
16	A note on interconnections. <i>Applied Mathematics Letters</i> , 2011 , 24, 1835-1839	3.5	1

15	State representations of ARMA-models. <i>International Journal of Control</i> , 2010 , 83, 2091-2097	1.5	1
14	Smooth/impulsive linear systems: controllability. <i>International Journal of Control</i> , 2011 , 84, 679-692	1.5	1
13	Continuous dependence of linear differential systems on polynomial modules. <i>Mathematics of Control, Signals, and Systems</i> , 2020 , 32, 385-409	1.3	1
12	The predictable degree property and minimality in multidimensional convolutional coding. <i>Discrete Mathematics</i> , 2019 , 342, 784-792	0.7	1
11	On the reduction of high order linear PDEs to first order. <i>Linear Algebra and Its Applications</i> , 2017 , 530, 1-14	0.9	
10	Non-catastrophicity in multidimensional convolutional coding. <i>Discrete Mathematics</i> , 2020 , 343, 111789	0.7	
9	KW Models for (Multivariate) Linear Differential Systems. <i>SIAM Journal on Control and Optimization</i> , 2018 , 56, 456-472	1.9	
8	Taylor approximations of multidimensional linear differential systems. <i>International Journal of Control</i> , 2016 , 89, 1091-1095	1.5	
7	Addendum to (Singular) state models and (singular) LTID systems. <i>International Journal of Control</i> , 2014 , 87, 1312-1315	1.5	
6	Converting high order linear PDEs to first order: Noncommutative case. <i>Systems and Control Letters</i> , 2017 , 109, 49-52	2.4	
5	(Singular) state models and (singular) LTID systems. <i>International Journal of Control</i> , 2014 , 87, 567-580	1.5	
4	First order representations of Fliess models. <i>Linear Algebra and Its Applications</i> , 2011 , 434, 1027-1057	0.9	
3	Continuity of the solution set to a linear PDE with constant coefficients. <i>International Journal of Control</i> , 1-5	1.5	
2	Duality for Multidimensional Linear Systems with Homological Dimension ≤ 1 . <i>SIAM Journal on Control and Optimization</i> , 2021 , 59, 417-433	1.9	
1	On the Wiener-Hopf factorization of rational matrices. <i>Transactions of A Razmadze Mathematical Institute</i> , 2018 , 172, 73-81		