

Victor Vinnikov

List of Publications by Year in descending order

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53
papers

1,189
citations

471371

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33
g-index

54
all docs

54
docs citations

54
times ranked

236
citing authors

#	ARTICLE	IF	CITATIONS
1	Pole placement for overdetermined 2D systems. <i>Linear Algebra and Its Applications</i> , 2021, 610, 529-559.	0.4	1
2	Realizations of non-commutative rational functions around a matrix centre, I: synthesis, minimal realizations and evaluation on stably finite algebras. <i>Journal of the London Mathematical Society</i> , 2021, 104, 1250-1299.	0.5	1
3	de Branges spaces on compact Riemann surfaces and a Beurling-Lax type theorem. <i>Advances in Mathematics</i> , 2020, 373, 107315.	0.5	4
4	Local theory of free noncommutative functions: germs, meromorphic functions, and Hermite interpolation. <i>Transactions of the American Mathematical Society</i> , 2020, 373, 5587-5625.	0.5	5
5	How to count zeroes of polynomials on quadrature domains using the Bezout matrix. <i>Advances in Mathematics</i> , 2019, 352, 1-26.	0.5	1
6	Representations of Lie algebras by non-skewselfadjoint operators in Hilbert space. <i>Journal of Functional Analysis</i> , 2019, 276, 1-44.	0.7	4
7	Real Algebraic Geometry With a View Toward Moment Problems and Optimization. <i>Oberwolfach Reports</i> , 2018, 14, 771-862.	0.0	1
8	H^2 Spaces of Non-commutative Functions. <i>Complex Analysis and Operator Theory</i> , 2018, 12, 945-967.	0.3	3
9	Null- and Positivstellensätze for rationally resolvable ideals. <i>Linear Algebra and Its Applications</i> , 2017, 527, 260-293.	0.4	2
10	Dilations of Semigroups of Contractions Through Vessels. <i>Integral Equations and Operator Theory</i> , 2017, 87, 45-80.	0.4	4
11	Rational Inner Functions on a Square-Matrix Polyball. <i>Association for Women in Mathematics Series</i> , 2017, , 267-277.	0.1	3
12	Stable and real-zero polynomials in two variables. <i>Multidimensional Systems and Signal Processing</i> , 2016, 27, 1-26.	1.7	24
13	Noncommutative reproducing kernel Hilbert spaces. <i>Journal of Functional Analysis</i> , 2016, 271, 1844-1920.	0.7	35
14	Convex Entire Noncommutative Functions are Polynomials of Degree Two or Less. <i>Integral Equations and Operator Theory</i> , 2016, 86, 151-163.	0.4	3
15	Contractive determinantal representations of stable polynomials on a matrix polyball. <i>Mathematische Zeitschrift</i> , 2016, 283, 25-37.	0.4	9
16	Meromorphic matrix trivializations of factors of automorphy over a Riemann surface. <i>Operators and Matrices</i> , 2016, , 785-828.	0.1	3
17	Scattering Systems with Several Evolutions and Formal Reproducing Kernel Hilbert Spaces. <i>Complex Analysis and Operator Theory</i> , 2015, 9, 827-931.	0.3	6
18	Null/Pole Interpolation Problem in the Class \mathcal{R}_l of Rational Functions Intertwining Solutions of Linear Differential Equations. <i>Complex Analysis and Operator Theory</i> , 2015, 9, 1-19.	0.3	3

#	ARTICLE	IF	CITATIONS
19	Non-commutative functions and the non-commutative free H_{∞} formula. <i>Advances in Mathematics</i> , 2013, 236, 131-157.	0.5	17
20	Schur Algorithm in The Class \mathcal{S}_J of J-contractive Functions Intertwining Solutions of Linear Differential Equations. <i>Integral Equations and Operator Theory</i> , 2012, 74, 313-344.	0.4	4
21	Determinantal representations of singular hypersurfaces in \mathbb{P}^n . <i>Advances in Mathematics</i> , 2012, 231, 1619-1654.	0.5	17
22	Noncommutative rational functions, their difference-differential calculus and realizations. <i>Multidimensional Systems and Signal Processing</i> , 2012, 23, 49-77.	1.7	37
23	A behavioral interpretation of LivÅšic systems. <i>Multidimensional Systems and Signal Processing</i> , 2012, 23, 17-48.	1.7	3
24	LMI Representations of Convex Semialgebraic Sets and Determinantal Representations of Algebraic Hypersurfaces: Past, Present, and Future. , 2012, , 325-349.		24
25	Noncommutative plurisubharmonic polynomials part I: Global assumptions. <i>Journal of Functional Analysis</i> , 2011, 261, 3390-3417.	0.7	6
26	Classes of tuples of commuting contractions satisfying the multivariable von Neumann inequality. <i>Journal of Functional Analysis</i> , 2009, 256, 3035-3054.	0.7	29
27	Singularities of rational functions and minimal factorizations: The noncommutative and the commutative setting. <i>Linear Algebra and Its Applications</i> , 2009, 430, 869-889.	0.4	66
28	Un algorithme de Schur pour les fonctions de transfert des systÅšmes surdÅšterminÅšs invariants dans une direction. <i>Comptes Rendus Mathematique</i> , 2009, 347, 729-733.	0.1	9
29	Convex Matrix Inequalities Versus Linear Matrix Inequalities. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 952-964.	3.6	45
30	Rational functions in noncommuting variables, their realizations, and applications to Linear Matrix inequalities. , 2009, , .		0
31	State feedback for overdetermined 2D systems: pole placement for bundle maps over an algebraic curve. , 2009, , .		1
32	Linear matrix inequality representation of sets. <i>Communications on Pure and Applied Mathematics</i> , 2007, 60, 654-674.	1.2	218
33	Noncommutative convexity arises from linear matrix inequalities. <i>Journal of Functional Analysis</i> , 2006, 240, 105-191.	0.7	92
34	Non-commutative positive kernels and their matrix evaluations. <i>Proceedings of the American Mathematical Society</i> , 2006, 134, 805-816.	0.4	6
35	Scattering Systems with Several Evolutions and Multidimensional Input/State/Output Systems. <i>Integral Equations and Operator Theory</i> , 2005, 52, 323-393.	0.4	66
36	Conservative InputÅšStateÅšOutput Systems with Evolution on a Multidimensional Integer Lattice. <i>Multidimensional Systems and Signal Processing</i> , 2005, 16, 133-198.	1.7	12

#	ARTICLE	IF	CITATIONS
37	Functional Models for Representations of the Cuntz Algebra. , 2005, , 1-60.		10
38	Lax-Phillips scattering and conservative linear systems: a Cuntz-algebra multidimensional setting. Memoirs of the American Mathematical Society, 2005, 178, 0-0.	0.5	30
39	Conservative linear systems, unitary colligations and Lax-Phillips scattering: multidimensional generalizations. International Journal of Control, 2004, 77, 802-811.	1.2	7
40	Formal Reproducing Kernel Hilbert Spaces: The Commutative and Noncommutative Settings. , 2003, , 77-134.		19
41	Overdetermined Multidimensional Systems: State Space and Frequency Domain Methods. The IMA Volumes in Mathematics and Its Applications, 2003, , 63-119.	0.5	9
42	Finite Dimensional de Branges Spaces on Riemann Surfaces. Journal of Functional Analysis, 2002, 189, 283-324.	0.7	25
43	Concrete Interpolation of Meromorphic Matrix Functions on Riemann Surfaces. , 2002, , 137-156.		0
44	Fonctions de Carathéodory sur une surface de Riemann et espaces à noyau reproduisant associés. Comptes Rendus Mathématique, 2001, 333, 523-528.	0.5	1
45	Hardy spaces on a finite bordered Riemann surface, multivariable operator model theory and Fourier analysis along a unimodular curve. , 2001, , 37-56.		11
46	Indefinite Hardy Spaces on Finite Bordered Riemann Surfaces. Journal of Functional Analysis, 2000, 172, 221-248.	0.7	15
47	We shall know: Hilbert's apology. Mathematical Intelligencer, 1999, 21, 42-46.	0.1	7
48	Zero-pole interpolation for matrix meromorphic functions on a compact Riemann surface and a matrix Fay trisecant identity. American Journal of Mathematics, 1999, 121, 841-888.	0.5	40
49	Zero-pole interpolation for meromorphic matrix functions on an algebraic curve and transfer functions of 2D systems. Acta Applicandae Mathematicae, 1996, 45, 239-316.	0.5	34
50	Self-adjoint determinantal representations of real plane curves. Mathematische Annalen, 1993, 296, 453-479.	0.7	86
51	Commuting Nonselfadjoint Operators and Algebraic Curves. , 1992, , 348-371.		7
52	Elementary transformations of determinantal representations of algebraic curves. Linear Algebra and Its Applications, 1990, 135, 1-18.	0.4	7
53	Complete description of determinantal representations of smooth irreducible curves. Linear Algebra and Its Applications, 1989, 125, 103-140.	0.4	55