GÃ¡bor Ivanyos

List of Publications by Year
in descending order

| 45 papers | 621 citations | 623734 14 h-index | 713466 21 g-index |

| 47 all docs | 47 docs citations | 47 times ranked | 185 citing authors |

#	Article	IF	Citations
1	Algorithms Based on *-Algebras, and Their Applications to Isomorphism of Polynomials with One Secret, Group Isomorphism, and Polynomial Identity Testing. SIAM Journal on Computing, 2019, 48, 926-963.	1.0	11
2	Explicit equivalence of quadratic forms over <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="double-struck">F</mml:mi></mml:mrow><mml:mrow><mml:mi>q</mml:mi></mml:mrow></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mi>t</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math>. Finite Fields and Their Applications, 2019, 55, 33-63.	1.0	4
3	Constructive non-commutative rank computation is in deterministic polynomial time. Computational Complexity, 2018, 27, 561-593.	0.3	28
4	Polynomial Interpolation and Identity Testing from High Powers Over Finite Fields. Algorithmica, 2018, 80, 560-575.	1.3	3
5	Computing Explicit Isomorphisms with Full Matrix Algebras over $$\mathbb {F}_q(x)$$ F q (x). Foundations of Computational Mathematics, 2018, 18, 381-397.	2.5	6
6	Algorithms based on *-algebras, and their applications to isomorphism of polynomials with one secret, group isomorphism, and polynomial identity testing. , 2018, , 2357-2376.		1
7	On the complexity of trial and error for constraint satisfaction problems. Journal of Computer and System Sciences, 2018, 92, 48-64.	1.2	3
8	Non-commutative Edmondsâ€™ problem and matrix semi-invariants. Computational Complexity, 2017, 26, 717-763.	0.3	44
9	Solving systems of diagonal polynomial equations over finite fields. Theoretical Computer Science, 2017, 657, 73-85.	0.9	2
10	Irreducibility and Deterministic r-th Root Finding over Finite Fields. , 2017, , .		0
11	Generalized Wong sequences and their applications to Edmonds' problems. Journal of Computer and System Sciences, 2015, 81, 1373-1386.	1.2	14
12	On Solving Systems of Diagonal Polynomial Equations Over Finite Fields. Lecture Notes in Computer Science, 2015, , 125-137.	1.3	1
13	Quantum computation of discrete logarithms in semigroups. Journal of Mathematical Cryptology, 2014, 8, 405-416.	0.7	18
14	Hidden Translation and Translating Coset in Quantum Computing. SIAM Journal on Computing, 2014, 43, 1-24.	1.0	15
15	Deterministic polynomial factoring and association schemes. LMS Journal of Computation and Mathematics, 2014, 17, 123-140.	0.9	3
16	An Efficient Quantum Algorithm for Finding Hidden Parabolic Subgroups in the General Linear Group. Lecture Notes in Computer Science, 2014, , 226-238.	1.3	0
17	Polynomial time quantum algorithms for certain bivariate hidden polynomial problems. Quantum Information and Computation, 2014, 14, 790-806.	0.3	3
18	Hidden Symmetry Subgroup Problems. SIAM Journal on Computing, 2013, 42, 1987-2007.	1.0	8

#	ARTICLE	IF	CITATIONS
19	Trading GRH for algebra: Algorithms for factoring polynomials and related structures. Mathematics of Computation, 2012, 81, 493-531.	2.1	9
20	Splitting full matrix algebras over algebraic number fields. Journal of Algebra, 2012, 354, 211-223.	0.7	21
21	On the distance between non-isomorphic groups. European Journal of Combinatorics, 2012, 33, 474-476.	0.8	1
22	An Efficient Quantum Algorithm for the Hidden Subgroup Problem in Nil-2 Groups. Algorithmica, 2012, 62, 480-498.	1.3	5
23	Finding hidden Borel subgroups of the general linear group. Quantum Information and Computation, 2012, 12, 661-669.	0.3	2
24	Deterministic Polynomial Time Algorithms for Matrix Completion Problems. SIAM Journal on Computing, 2010, 39, 3736-3751.	1.0	30
25	On the Black-Box Complexity of Spernerâ€™sÂLemma. Theory of Computing Systems, 2009, 45, 629-646.	1.1	2
26	Schemes for deterministic polynomial factoring. , 2009, , .		6
27	Simple Lie algebras having extremal elements. Indagationes Mathematicae, 2008, 19, 177-188.	0.4	16
28	An Efficient Quantum Algorithm for the Hidden Subgroup Problem in Nil-2 Groups. Lecture Notes in Computer Science, 2008, , 759-771.	1.3	28
29	Root shadow spaces. European Journal of Combinatorics, 2007, 28, 1419-1441.	0.8	17
30	Deciding universality of quantum gates. Journal of Algebra, 2007, 310, 49-56.	0.7	0
31	Root filtration spaces from Lie algebras and abstract root groups. Journal of Algebra, 2006, 300, 433-454.	0.7	16
32	Locally 2-Dimensional Sperner Problems Complete for the Polynomial Parity Argument Classes. Lecture Notes in Computer Science, 2006, , 380-391.	1.3	4
33	Efficient testing of groups. , 2005, , .		11
34	On the Black-Box Complexity of Spernerâ€™s Lemma. Lecture Notes in Computer Science, 2005, , 245-257.	1.3	16
35	EFFICIENT QUANTUM ALGORITHMS FOR SOME INSTANCES OF THE NON-ABELIAN HIDDEN SUBGROUP PROBLEM. International Journal of Foundations of Computer Science, 2003, 14, 723-739.	1.1	42
36	Hidden translation and orbit coset in quantum computing. , 2003, , .		71

#	Article	IF	Citations
37	Deciding finiteness for matrix semigroups over function fields over finite fields. Israel Journal of Mathematics, 2001, 124, 185-188.	0.8	6
38	Treating the Exceptional Cases of the MeatAxe. Experimental Mathematics, 2000, 9, 373-381.	0.7	22
39	Finding the radical of matrix algebras using Fitting decompositions. Journal of Pure and Applied Algebra, 1999, 139, 159-182.	0.6	6
40	Polynomial time algorithms for modules over finite dimensional algebras. , 1997, , .		25
41	Finding the radical of an algebra of linear transformations. Journal of Pure and Applied Algebra, 1997, 117-118, 177-193.	0.6	24
42	Computing Cartan subalgebras of Lie algebras. Applicable Algebra in Engineering, Communications and Computing, 1996, 7, 339-349.	0.5	13
43	Lattice basis reduction for indefinite forms and an application. Discrete Mathematics, 1996, 153, 177-188.	0.7	13
44	Decomposition of algebras overF_q (X 1,...,X m). Applicable Algebra in Engineering, Communications and Computing, 1994, 5, 71-90.	0.5	10
45	Finding maximal orders in semisimple algebras over Q. Computational Complexity, 1993, 3, 245-261.	0.3	28