

Dmitrii V Pasechnik

List of Publications by Year in descending order

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61
papers

18,494
citations

567281

15
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168389

53
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62
all docs

62
docs citations

62
times ranked

27489
citing authors

#	ARTICLE	IF	CITATIONS
1	Splitting fields of real irreducible representations of finite groups. Representation Theory, 2021, 25, 897-902.	0.5	1
2	SciPy 1.0: fundamental algorithms for scientific computing in Python. Nature Methods, 2020, 17, 261-272.	19.0	17,539
3	RepnDecomp: A GAP package for decomposing linear representations of finite groups. Journal of Open Source Software, 2020, 5, 1835.	4.6	3
4	On moments of a polytope. Analysis and Mathematical Physics, 2018, 8, 255-287.	1.3	5
5	Random Chain Complexes. Arnold Mathematical Journal, 2017, 3, 197-204.	0.4	2
6	Implementing Brouwer's database of strongly regular graphs. Designs, Codes, and Cryptography, 2017, 84, 223-235.	1.6	3
7	Edge-dominating cycles, k -walks and Hamilton prisms in $2K_2$ -free graphs. Journal of Knot Theory and Its Ramifications, 2016, 25, 1642011.	0.3	1
8	Sandpile groups of generalized de Bruijn and Kautz graphs and circulant matrices over finite fields. Journal of Algebra, 2015, 421, 268-295.	0.7	2
9	On polygonal measures with vanishing harmonic moments. Journal D'Analyse Mathématique, 2014, 123, 281-301.	0.8	2
10	Book drawings of complete bipartite graphs. Discrete Applied Mathematics, 2014, 167, 80-93.	0.9	5
11	Computing symmetry groups of polyhedra. LMS Journal of Computation and Mathematics, 2014, 17, 565-581.	0.9	21
12	CSS-Like Constructions of Asymmetric Quantum Codes. IEEE Transactions on Information Theory, 2013, 59, 6732-6754.	2.4	37
13	Critical groups of generalized de Bruijn and Kautz graphs and circulant matrices over finite fields. , 2013, , 97-104.		0
14	The Inverse Moment Problem for Convex Polytopes. Discrete and Computational Geometry, 2012, 48, 596-621.	0.6	39
15	On semidefinite programming relaxations of maximum k -section. Mathematical Programming, 2012, 136, 253-278.	2.4	12
16	Two distance-regular graphs. Journal of Algebraic Combinatorics, 2012, 36, 403-407.	0.8	1
17	Relaxations of Combinatorial Problems Via Association Schemes. Profiles in Operations Research, 2012, , 171-199.	0.4	11
18	Numerical block diagonalization of matrix $*$ -algebras with application to semidefinite programming. Mathematical Programming, 2011, 129, 91.	2.4	21

#	ARTICLE	IF	CITATIONS
19	Majorana representations of the symmetric group of degree 4. <i>Journal of Algebra</i> , 2010, 324, 2432-2463.	0.7	40
20	Bounding the Betti numbers and computing the Euler-Poincaré characteristic of semi-algebraic sets defined by partly quadratic systems of polynomials. <i>Journal of the European Mathematical Society</i> , 2010, 12, 529-553.	1.4	10
21	A GAP Package for Computation with Coherent Configurations. <i>Lecture Notes in Computer Science</i> , 2010, , 69-72.	1.3	2
22	Computing the nucleolus of weighted voting games. , 2009, , .		15
23	Exploiting group symmetry in truss topology optimization. <i>Optimization and Engineering</i> , 2009, 10, 331-349.	2.4	38
24	Computing the Betti numbers of semi-algebraic sets defined by partly quadratic systems of polynomials. <i>Journal of Algebra</i> , 2009, 321, 2206-2229.	0.7	8
25	On Semidefinite Programming Relaxations of the Traveling Salesman Problem. <i>SIAM Journal on Optimization</i> , 2009, 19, 1559-1573.	2.0	32
26	On the Irreducibility of a Truncated Binomial Expansion. <i>Rocky Mountain Journal of Mathematics</i> , 2007, 37, .	0.4	5
27	Reduction of symmetric semidefinite programs using the regular \ast -representation. <i>Mathematical Programming</i> , 2007, 109, 613-624.	2.4	84
28	Improved Bounds for the Crossing Numbers of $K_{m,n}$ and K_n . <i>SIAM Journal on Discrete Mathematics</i> , 2006, 20, 189-202.	0.8	46
29	The isometries of the cut, metric and hypermetric cones. <i>Journal of Algebraic Combinatorics</i> , 2006, 23, 197-203.	0.8	4
30	On NP-hardness of the clique partition-Independence number gap recognition and related problems. <i>Discrete Mathematics</i> , 2006, 306, 460-463.	0.7	8
31	Polynomial-time computing over quadratic maps i: sampling in real algebraic sets. <i>Computational Complexity</i> , 2005, 14, 20-52.	0.3	30
32	On Approximate Graph Colouring and MAX-k-CUT Algorithms Based on the \hat{I}_k -Function. <i>Journal of Combinatorial Optimization</i> , 2004, 8, 267-294.	1.3	55
33	Products of positive forms, linear matrix inequalities, and Hilbert 17th problem for ternary forms. <i>European Journal of Operational Research</i> , 2004, 157, 39-45.	5.7	7
34	Approximation of the Stability Number of a Graph via Copositive Programming. <i>SIAM Journal on Optimization</i> , 2002, 12, 875-892.	2.0	229
35	Exponential Lower Bound for Static Semi-algebraic Proofs. <i>Lecture Notes in Computer Science</i> , 2002, , 257-268.	1.3	6
36	Complexity of Semi-algebraic Proofs. <i>Lecture Notes in Computer Science</i> , 2002, , 419-430.	1.3	22

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37	On computing Hilbert bases via the Elliot-MacMahon algorithm. Theoretical Computer Science, 2001, 263, 37-46.	0.9	9
38	On the Skeleton of the Metric Polytope. Lecture Notes in Computer Science, 2001, , 125-136.	1.3	9
39	On Transitive Permutation Groups with Primitive Subconstituents. Bulletin of the London Mathematical Society, 1999, 31, 257-268.	0.8	4
40	A New Family of Extended Generalized Quadrangles. European Journal of Combinatorics, 1997, 18, 155-169.	0.8	3
41	The Universal Covers of Certain Semiplanes. European Journal of Combinatorics, 1997, 18, 491-496.	0.8	6
42	Local characterizations of geometries. Bulletin of the Australian Mathematical Society, 1996, 53, 175-176.	0.5	0
43	The Universal Covers of the Sporadic Semiplanes. European Journal of Combinatorics, 1996, 17, 595-604.	0.8	1
44	The Extensions of the Generalized Quadrangle of Order (3, 9). European Journal of Combinatorics, 1996, 17, 751-755.	0.8	12
45	Non-Abelian Representations of Some Sporadic Geometries. Journal of Algebra, 1996, 181, 523-557.	0.7	19
46	Multiple Extensions of Generalized Hexagons Related to the Simple Groups M_{23} and Co_3 . Journal of the London Mathematical Society, 1996, 54, 16-24.	1.0	2
47	Extended generalized octagons and the group He_4 . Geometriae Dedicata, 1995, 56, 85-101.	0.3	1
48	Extending polar spaces of rank at least 3. Journal of Combinatorial Theory - Series A, 1995, 72, 232-242.	0.8	14
49	Subsets close to invariant subsets for group actions. Proceedings of the American Mathematical Society, 1995, 123, 2283-2295.	0.8	7
50	Geometric characterization of the sporadic groups Fi_{22} , Fi_{23} , and Fi_{24} . Journal of Combinatorial Theory - Series A, 1994, 68, 100-114.	0.8	11
51	Geometric Characterization of Graphs from the Suzuki Chain. European Journal of Combinatorics, 1993, 14, 491-499.	0.8	8
52	The Automorphism Group and the Convex Subgraphs of the Quadratic Forms Graph in Characteristic 2. Journal of Algebraic Combinatorics, 1993, 2, 411-419.	0.8	8
53	New examples of finite C_2 -geometries. Geometriae Dedicata, 1993, 46, 161-164.	0.3	0
54	Skew-symmetric association schemes with two classes and strongly regular graphs of type $L_{2n-1}(4n-1)$. Acta Applicandae Mathematicae, 1992, 29, 129-138.	1.0	10

#	ARTICLE	IF	CITATIONS
55	Affine extensions of the Petersen graph and 2-arc-transitive graphs of girth 5. European Journal of Combinatorics, 1992, 13, 279-290.	0.8	1
56	Dual Linear Extensions of Generalised Quadrangles. European Journal of Combinatorics, 1991, 12, 541-548.	0.8	7
57	Distance-transitive Graphs of Type q . K_q, q and Projective Planes. European Journal of Combinatorics, 1990, 11, 341-346.	0.8	4
58	Bounds on the Cost of Stabilizing a Cooperative Game. Journal of Artificial Intelligence Research, 0, 63, 987-1023.	7.0	7
59	A Note on the Stability Number of an Orthogonality Graph. SSRN Electronic Journal, 0, , .	0.4	2
60	Exploiting Group Symmetry in Truss Topology Optimization. SSRN Electronic Journal, 0, , .	0.4	2
61	On the Lovasz α -number of Almost Regular Graphs with Application to Erdos-Renyi Graphs. SSRN Electronic Journal, 0, , .	0.4	1