

# Dmitrii V Pasechnik

## List of Publications by Year in Descending Order

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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.

58

papers

6,997

citations

15

h-index

62

g-index

62

ext. papers

12,538

ext. citations

1.5

avg, IF

4.82

L-index

#	Paper	IF	Citations
58	Splitting fields of real irreducible representations of finite groups. <i>Representation Theory</i> , <b>2021</b> , 25, 897-902	0.2	1
57	SciPy 1.0: fundamental algorithms for scientific computing in Python. <i>Nature Methods</i> , <b>2020</b> , 17, 261-272	21.6	6244
56	RepnDecomp: A GAP package for decomposing linear representations of finite groups. <i>Journal of Open Source Software</i> , <b>2020</b> , 5, 1835	5.2	2
55	On moments of a polytope. <i>Analysis and Mathematical Physics</i> , <b>2018</b> , 8, 255-287	1.3	1
54	Random Chain Complexes. <i>Arnold Mathematical Journal</i> , <b>2017</b> , 3, 197-204	0.3	2
53	Implementing Brouwer's database of strongly regular graphs. <i>Designs, Codes, and Cryptography</i> , <b>2017</b> , 84, 223-235	1.2	3
52	Edge-dominating cycles, k-walks and Hamilton prisms in 2K2-free graphs. <i>Journal of Knot Theory and Its Ramifications</i> , <b>2016</b> , 25, 1642011	0.3	1
51	Sandpile groups of generalized de Bruijn and Kautz graphs and circulant matrices over finite fields. <i>Journal of Algebra</i> , <b>2015</b> , 421, 268-295	0.6	1
50	On polygonal measures with vanishing harmonic moments. <i>Journal DsAnalyse Mathematique</i> , <b>2014</b> , 123, 281-301	0.8	1
49	Book drawings of complete bipartite graphs. <i>Discrete Applied Mathematics</i> , <b>2014</b> , 167, 80-93	1	3
48	Computing symmetry groups of polyhedra. <i>LMS Journal of Computation and Mathematics</i> , <b>2014</b> , 17, 565-581		15
47	CSS-Like Constructions of Asymmetric Quantum Codes. <i>IEEE Transactions on Information Theory</i> , <b>2013</b> , 59, 6732-6754	2.8	31
46	The Inverse Moment Problem for Convex Polytopes. <i>Discrete and Computational Geometry</i> , <b>2012</b> , 48, 596-621	0.6	31
45	On semidefinite programming relaxations of maximum (k)-section. <i>Mathematical Programming</i> , <b>2012</b> , 136, 253-278	2.1	10
44	Two distance-regular graphs. <i>Journal of Algebraic Combinatorics</i> , <b>2012</b> , 36, 403-407	0.8	0
43	Relaxations of Combinatorial Problems Via Association Schemes. <i>Profiles in Operations Research</i> , <b>2012</b> , 171-199	1	8
42	Numerical block diagonalization of matrix *-algebras with application to semidefinite programming. <i>Mathematical Programming</i> , <b>2011</b> , 129, 91	2.1	18

41	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> , <b>2010</b> , 529-553	1.8	5
40	Majorana representations of the symmetric group of degree 4. <i>Journal of Algebra</i> , <b>2010</b> , 324, 2432-2463	0.6	29
39	A GAP Package for Computation with Coherent Configurations. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 69-72	0.9	2
38	Computing the nucleolus of weighted voting games <b>2009</b> ,		15
37	Exploiting group symmetry in truss topology optimization. <i>Optimization and Engineering</i> , <b>2009</b> , 10, 331-349	3.4	33
36	Computing the Betti numbers of semi-algebraic sets defined by partly quadratic systems of polynomials. <i>Journal of Algebra</i> , <b>2009</b> , 321, 2206-2229	0.6	5
35	On Semidefinite Programming Relaxations of the Traveling Salesman Problem. <i>SIAM Journal on Optimization</i> , <b>2009</b> , 19, 1559-1573	2	25
34	On the Irreducibility of a Truncated Binomial Expansion. <i>Rocky Mountain Journal of Mathematics</i> , <b>2007</b> , 37,	1.4	4
33	Reduction of symmetric semidefinite programs using the regular (ast)-representation. <i>Mathematical Programming</i> , <b>2007</b> , 109, 613-624	2.1	72
32	On NP-hardness of the clique partition independence number gap recognition and related problems. <i>Discrete Mathematics</i> , <b>2006</b> , 306, 460-463	0.7	7
31	Improved Bounds for the Crossing Numbers of $K_{m,n}$ and $K_n$ . <i>SIAM Journal on Discrete Mathematics</i> , <b>2006</b> , 20, 189-202	0.7	37
30	The isometries of the cut, metric and hypermetric cones. <i>Journal of Algebraic Combinatorics</i> , <b>2006</b> , 23, 197-203	0.8	3
29	Polynomial-time computing over quadratic maps i: sampling in real algebraic sets. <i>Computational Complexity</i> , <b>2005</b> , 14, 20-52	0.6	24
28	On Approximate Graph Colouring and MAX-k-CUT Algorithms Based on the $\mathbb{E}$ -Function. <i>Journal of Combinatorial Optimization</i> , <b>2004</b> , 8, 267-294	0.9	42
27	Products of positive forms, linear matrix inequalities, and Hilbert 17th problem for ternary forms. <i>European Journal of Operational Research</i> , <b>2004</b> , 157, 39-45	5.6	5
26	Approximation of the Stability Number of a Graph via Copositive Programming. <i>SIAM Journal on Optimization</i> , <b>2002</b> , 12, 875-892	2	190
25	Exponential Lower Bound for Static Semi-algebraic Proofs. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 257-268	2.6	4
24	Complexity of Semi-algebraic Proofs. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 419-430	0.9	16

23	On computing Hilbert bases via the Elliott-MacMahon algorithm. <i>Theoretical Computer Science</i> , <b>2001</b> , 263, 37-46	1.1	6
22	On the Skeleton of the Metric Polytope. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 125-136	0.9	7
21	On Transitive Permutation Groups with Primitive Subconstituents. <i>Bulletin of the London Mathematical Society</i> , <b>1999</b> , 31, 257-268	0.9	1
20	A New Family of Extended Generalized Quadrangles. <i>European Journal of Combinatorics</i> , <b>1997</b> , 18, 155-169	0.7	2
19	The Universal Covers of Certain Semiplanes. <i>European Journal of Combinatorics</i> , <b>1997</b> , 18, 491-496	0.7	4
18	Multiple Extensions of Generalized Hexagons Related to the Simple Groups $M_{24}$ and $Co_3$ . <i>Journal of the London Mathematical Society</i> , <b>1996</b> , 54, 16-24	0.7	2
17	Local characterizations of geometries. <i>Bulletin of the Australian Mathematical Society</i> , <b>1996</b> , 53, 175-176	0.4	
16	The Extensions of the Generalized Quadrangle of Order (3, 9). <i>European Journal of Combinatorics</i> , <b>1996</b> , 17, 751-755	0.7	9
15	Non-Abelian Representations of Some Sporadic Geometries. <i>Journal of Algebra</i> , <b>1996</b> , 181, 523-557	0.6	16
14	Extended generalized octagons and the group $He$ . <i>Geometriae Dedicata</i> , <b>1995</b> , 56, 85-101	0.5	1
13	Extending polar spaces of rank at least 3. <i>Journal of Combinatorial Theory - Series A</i> , <b>1995</b> , 72, 232-242	1	10
12	Subsets close to invariant subsets for group actions. <i>Proceedings of the American Mathematical Society</i> , <b>1995</b> , 123, 2283-2283	0.8	5
11	Geometric characterization of the sporadic groups $Fi_{22}$ , $Fi_{23}$ , and $Fi_{24}$ . <i>Journal of Combinatorial Theory - Series A</i> , <b>1994</b> , 68, 100-114	1	9
10	Geometric Characterization of Graphs from the Suzuki Chain. <i>European Journal of Combinatorics</i> , <b>1993</b> , 14, 491-499	0.7	7
9	The Automorphism Group and the Convex Subgraphs of the Quadratic Forms Graph in Characteristic 2. <i>Journal of Algebraic Combinatorics</i> , <b>1993</b> , 2, 411-419	0.8	5
8	New examples of finite $(C_2 \tilde{C}_2)$ -geometries. <i>Geometriae Dedicata</i> , <b>1993</b> , 46, 161-164	0.5	
7	Skew-symmetric association schemes with two classes and strongly regular graphs of type L $2n \square (4n \square)$ . <i>Acta Applicandae Mathematicae</i> , <b>1992</b> , 29, 129-138	1.1	8
6	Affine extensions of the Petersen graph and 2-arc-transitive graphs of girth 5. <i>European Journal of Combinatorics</i> , <b>1992</b> , 13, 279-290	0.7	1

- 5 Dual Linear Extensions of Generalised Quadrangles. *European Journal of Combinatorics*, **1991**, 12, 541-548.7 4
- 4 Distance-transitive Graphs of Type  $q$ .  $Kq, q$  and Projective Planes. *European Journal of Combinatorics*, **1990**, 11, 341-346 0.7 3
- 3 Bounds on the Cost of Stabilizing a Cooperative Game. *Journal of Artificial Intelligence Research*, **63**, 987-1023 1 3
- 2 A Note on the Stability Number of an Orthogonality Graph. *SSRN Electronic Journal*, 1 2
- 1 Exploiting Group Symmetry in Truss Topology Optimization. *SSRN Electronic Journal*, 1 2