

Achill SchÄ¼rmann

List of Publications by Year in descending order

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papers

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840776

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37
all docs

37
docs citations

37
times ranked

195
citing authors

#	ARTICLE	IF	CITATIONS
1	A Data Processing Framework for Polar Performance Diagrams. Applied Sciences (Switzerland), 2022, 12, 3085.	2.5	0
2	A simplex algorithm for rational cp-factorization. Mathematical Programming, 2021, 187, 25-45.	2.4	3
3	Local energy optimality of periodic sets. Communications in Number Theory and Physics, 2021, 15, 489-516.	1.0	2
4	Local formulas for Ehrhart coefficients from lattice tiles. Beitrage Zur Algebra Und Geometrie, 2020, 61, 157-185.	0.5	1
5	On the topological computation of K_4 of the Gaussian and Eisenstein integers. Journal of Homotopy and Related Structures, 2019, 14, 281-291.	0.7	2
6	Equivalence of Lattice Orbit Polytopes. SIAM Journal on Applied Algebra and Geometry, 2018, 2, 259-280.	1.4	0
7	Rational factorizations of completely positive matrices. Linear Algebra and Its Applications, 2017, 523, 46-51.	0.9	6
8	The impact of dependence among voters' preferences with partial indifference. Quality and Quantity, 2017, 51, 2793-2812.	3.7	2
9	The complete classification of five-dimensional Dirichlet-Voronoi polyhedra of translational lattices. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 673-683.	0.1	6
10	On the cohomology of linear groups over imaginary quadratic fields. Journal of Pure and Applied Algebra, 2016, 220, 2564-2589.	0.6	16
11	On Lattice-Free Orbit Polytopes. Discrete and Computational Geometry, 2015, 53, 144-172.	0.6	4
12	Computing symmetry groups of polyhedra. LMS Journal of Computation and Mathematics, 2014, 17, 565-581.	0.9	21
13	Exploiting polyhedral symmetries in social choice. Social Choice and Welfare, 2013, 40, 1097-1110.	0.8	25
14	Exploiting symmetry in integer convex optimization using core points. Operations Research Letters, 2013, 41, 298-304.	0.7	8
15	Exploiting Symmetries in Polyhedral Computations. Fields Institute Communications, 2013, , 265-278.	1.3	6
16	Energy Minimization, Periodic Sets and Spherical Designs. International Mathematics Research Notices, 2012, 2012, 829-848.	1.0	20
17	BASES OF MINIMAL VECTORS IN LATTICES, III. International Journal of Number Theory, 2012, 08, 551-567.	0.5	8
18	Neue Bücher aus Oberwolfach. Mitteilungen Der Deutschen Mathematiker-Vereinigung, 2012, 20, 135-135.	0.0	0

#	ARTICLE	IF	CITATIONS
19	On the integral homology of $\mathrm{PSL}(2, \mathbb{Z})$. <i>Journal of Number Theory</i> , 2011, 131, 2368-2375.	0.4	9
20	Bounds on generalized Frobenius numbers. <i>European Journal of Combinatorics</i> , 2011, 32, 361-368.	0.8	11
21	The Contact Polytope of the Leech Lattice. <i>Discrete and Computational Geometry</i> , 2010, 44, 904-911.	0.6	4
22	Point configurations that are asymmetric yet balanced. <i>Proceedings of the American Mathematical Society</i> , 2010, 138, 2863-2863.	0.8	5
23	Complexity and algorithms for computing Voronoi cells of lattices. <i>Mathematics of Computation</i> , 2009, 78, 1713-1731.	2.1	42
24	Experimental Study of Energy-Minimizing Point Configurations on Spheres. <i>Experimental Mathematics</i> , 2009, 18, 257-283.	0.7	40
25	Polyhedral representation conversion up to symmetries. <i>CRM Proceedings & Lecture Notes</i> , 2009, , 45-71.	0.1	23
26	Classification of eight-dimensional perfect forms. <i>Electronic Research Announcements in Mathematical Sciences</i> , 2007, 13, 21-32.	0.7	27
27	Lattice Delone simplices with super-exponential volume. <i>European Journal of Combinatorics</i> , 2007, 28, 801-806.	0.8	1
28	Instability of discrete point sets. <i>Periodica Mathematica Hungarica</i> , 2006, 53, 257-264.	0.9	0
29	Computational Approaches to Lattice Packing and Covering Problems. <i>Discrete and Computational Geometry</i> , 2006, 35, 73-116.	0.6	23
30	Ehrhart Polynomials and Successive Minima. <i>Mathematika</i> , 2005, 52, 1-16.	0.5	38
31	Lattices of Optimal Finite Lattice Packings. <i>Monatshefte Fur Mathematik</i> , 2005, 144, 31-38.	0.9	0
32	Local covering optimality of lattices: Leech lattice versus root lattice E8. <i>International Mathematics Research Notices</i> , 2005, 2005, 1937.	1.0	4
33	The spherical conjecture in Minkowski geometry. <i>Archiv Der Mathematik</i> , 2004, 83, 381-384.	0.5	0
34	Dense ellipsoid packings. <i>Discrete Mathematics</i> , 2002, 247, 243-249.	0.7	3
35	A criterion for finite lattice coverings. <i>Periodica Mathematica Hungarica</i> , 2002, 45, 131-134.	0.9	0