

Karoly Bezdek

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	On k -diametral point configurations in Minkowski spaces. <i>Discrete Mathematics</i> , 2022, 345, 112700.	0.7	0
2	ON CONTACT NUMBERS OF LOCALLY SEPARABLE UNIT SPHERE PACKINGS. <i>Mathematika</i> , 2021, 67, 714-729.	0.5	1
3	Volumetric bounds for intersections of congruent balls in Euclidean spaces. <i>Aequationes Mathematicae</i> , 2021, 95, 653-665.	0.8	0
4	Bounds for Totally Separable Translative Packings in the Plane. <i>Discrete and Computational Geometry</i> , 2020, 63, 49-72.	0.6	1
5	From spherical to Euclidean illumination. <i>Monatshefte Fur Mathematik</i> , 2020, 192, 483-492.	0.9	1
6	ON UNIFORM CONTRACTIONS OF BALLS IN MINKOWSKI SPACES. <i>Mathematika</i> , 2020, 66, 448-457.	0.5	0
7	Minimizing the mean projections of finite δ -separable packings. <i>Monatshefte Fur Mathematik</i> , 2019, 188, 611-620.	0.9	3
8	On contact graphs of totally separable domains. <i>Aequationes Mathematicae</i> , 2019, 93, 757-780.	0.8	1
9	On the intrinsic volumes of intersections of congruent balls. <i>Discrete Optimization</i> , 2019, , 100539.	0.9	1
10	The Kneser-Poulsen Conjecture for Special Contractions. <i>Discrete and Computational Geometry</i> , 2018, 60, 967-980.	0.6	5
11	From r -dual sets to uniform contractions. <i>Aequationes Mathematicae</i> , 2018, 92, 123-134.	0.8	5
12	Contact Numbers for Sphere Packings. <i>Bolyai Society Mathematical Studies</i> , 2018, , 25-47.	0.3	3
13	On contact graphs of totally separable packings in low dimensions. <i>Advances in Applied Mathematics</i> , 2018, 101, 266-280.	0.7	1
14	The Geometry of Homothetic Covering and Illumination. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 1-30.	0.2	13
15	On Non-separable Families of Positive Homothetic Convex Bodies. <i>Discrete and Computational Geometry</i> , 2016, 56, 802-813.	0.6	3
16	On the covering index of convex bodies. <i>Aequationes Mathematicae</i> , 2016, 90, 879-903.	0.8	4
17	Packing Convex Bodies by Cylinders. <i>Discrete and Computational Geometry</i> , 2016, 55, 725-738.	0.6	3
18	On contact numbers of totally separable unit sphere packings. <i>Discrete Mathematics</i> , 2016, 339, 668-676.	0.7	6

#	ARTICLE	IF	CITATIONS
19	Spindle starshaped sets. <i>Aequationes Mathematicae</i> , 2015, 89, 803-819.	0.8	2
20	Density bounds for outer parallel domains of unit ball packings. <i>Proceedings of the Steklov Institute of Mathematics</i> , 2015, 288, 209-225.	0.3	6
21	Contact graphs of unit sphere packings revisited. <i>Journal of Geometry</i> , 2013, 104, 57-83.	0.4	15
22	Lectures on Sphere Arrangements – the Discrete Geometric Side. <i>Fields Institute Monographs</i> , 2013, , .	0.4	14
23	Proofs on Coverings by Cylinders. <i>Fields Institute Monographs</i> , 2013, , 143-156.	0.4	0
24	Rigid Ball-Polyhedra in Euclidean \mathbb{S}^3 -Space. <i>Discrete and Computational Geometry</i> , 2013, 49, 189-199.	0.6	1
25	ON A STRONG VERSION OF THE KEPLER CONJECTURE. <i>Mathematika</i> , 2013, 59, 23-30.	0.5	3
26	Selected Open Problems in Discrete Geometry and Optimization. <i>Fields Institute Communications</i> , 2013, , 321-336.	1.3	1
27	Contractions of Sphere Arrangements. <i>Fields Institute Monographs</i> , 2013, , 57-66.	0.4	0
28	Unit Sphere Packings. <i>Fields Institute Monographs</i> , 2013, , 1-16.	0.4	0
29	Coverings by Cylinders. <i>Fields Institute Monographs</i> , 2013, , 131-142.	0.4	0
30	Proofs on Ball-Polyhedra and Spindle Convex Bodies. <i>Fields Institute Monographs</i> , 2013, , 99-129.	0.4	0
31	On Minimal Tilings with Convex Cells Each Containing a Unit Ball. <i>Fields Institute Communications</i> , 2013, , 45-54.	1.3	0
32	Ball-Polyhedra and Spindle Convex Bodies. <i>Fields Institute Monographs</i> , 2013, , 83-98.	0.4	0
33	Contact Numbers for Congruent Sphere Packings in Euclidean 3-Space. <i>Discrete and Computational Geometry</i> , 2012, 48, 298-309.	0.6	13
34	Illuminating Spindle Convex Bodies and Minimizing the Volume of Spherical Sets of Constant Width. <i>Discrete and Computational Geometry</i> , 2012, 47, 275-287.	0.6	12
35	The illumination conjecture for spindle convex bodies. <i>Proceedings of the Steklov Institute of Mathematics</i> , 2011, 275, 169-176.	0.3	1
36	Classical Topics in Discrete Geometry. <i>CMS Books in Mathematics</i> , 2010, , .	0.8	31

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37	On the X-ray Number of Almost Smooth Convex Bodies and of Convex Bodies of Constant Width. Canadian Mathematical Bulletin, 2009, 52, 342-348.	0.5	10
38	Shortest billiard trajectories. Geometriae Dedicata, 2009, 141, 197-206.	0.3	14
39	Covering Convex Bodies by Cylinders and Lattice Points by Flats. Journal of Geometric Analysis, 2009, 19, 233-243.	1.0	8
40	On the weighted Kneser-Poulsen conjecture. Periodica Mathematica Hungarica, 2008, 57, 121-129.	0.9	1
41	From the Kneser-Poulsen conjecture to ball-polyhedra. European Journal of Combinatorics, 2008, 29, 1820-1830.	0.8	1
42	From the Kneser-Poulsen conjecture to ball-polyhedra via Voronoi diagrams. , 2007, , .		1
43	Ball-Polyhedra. Discrete and Computational Geometry, 2007, 38, 201-230.	0.6	57
44	On the vertex index of convex bodies. Advances in Mathematics, 2007, 215, 626-641.	1.1	23
45	Rigidity of ball-polyhedra in Euclidean 3-space. European Journal of Combinatorics, 2006, 27, 255-268.	0.8	16
46	Sphere packings revisited. European Journal of Combinatorics, 2006, 27, 864-883.	0.8	34
47	The illumination conjecture and its extensions. Periodica Mathematica Hungarica, 2006, 53, 59-69.	0.9	28
48	On the successive illumination parameters of convex bodies. Periodica Mathematica Hungarica, 2006, 53, 71-82.	0.9	3
49	On the transversal Helly numbers of disjoint and overlapping disks. Archiv Der Mathematik, 2006, 87, 86-96.	0.5	6
50	Antipodality in hyperbolic space. Journal of Geometry, 2006, 85, 22-31.	0.4	1
51	Finding the Best Face on a Voronoi Polyhedron - The Strong Dodecahedral Conjecture Revisited. Monatshefte Fur Mathematik, 2005, 145, 191-206.	0.9	10
52	The Kneser-Poulsen Conjecture for Spherical Polytopes. Discrete and Computational Geometry, 2004, 32, 101-106.	0.6	12
53	The Radon Number of the Three-Dimensional Integer Lattice. Discrete and Computational Geometry, 2003, 30, 181-184.	0.6	38
54	Pushing disks apart - the Kneser-Poulsen conjecture in the plane. Journal Fur Die Reine Und Angewandte Mathematik, 2002, 2002, .	0.9	16

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55	On the Maximum Number of Touching Pairs in a Finite Packing of Translates of a Convex Body. <i>Journal of Combinatorial Theory - Series A</i> , 2002, 98, 192-200.	0.8	14
56	Improving Rogers's™ Upper Bound for the Density of Unit Ball Packings via Estimating the Surface Area of Voronoi Cells from Below in Euclidean s -Space for All $s \geq 8$. <i>Discrete and Computational Geometry</i> , 2002, 28, 75-106.	0.6	7
57	The polyhedral Tammes problem. <i>Archiv Der Mathematik</i> , 2001, 76, 314-320.	0.5	4
58	ALMOST EQUIDISTANT POINTS ON S^{D-1} . <i>Periodica Mathematica Hungarica</i> , 2000, 39, 139-144.	0.9	2
59	TWO-DISTANCE PRESERVING FUNCTIONS FROM EUCLIDEAN SPACE. <i>Periodica Mathematica Hungarica</i> , 2000, 39, 185-200.	0.9	5
60	DANZER-GRÄUBAUM'S THEOREM REVISITED. <i>Periodica Mathematica Hungarica</i> , 2000, 39, 7-15.	0.9	0
61	VORONOI POLYHEDRA OF UNIT BALL PACKINGS WITH SMALL SURFACE AREA. <i>Periodica Mathematica Hungarica</i> , 2000, 39, 107-118.	0.9	3
62	4th GEOMETRY FESTIVAL, BUDAPEST. <i>Periodica Mathematica Hungarica</i> , 2000, 39, 1-6.	0.9	0
63	Isoperimetric Inequalities and the Dodecahedral Conjecture. <i>International Journal of Mathematics</i> , 1997, 08, 759-780.	0.5	7
64	3rd Geometry Festival: An International Conference on Packings, Coverings and Tilings. <i>Periodica Mathematica Hungarica</i> , 1997, 34, 1-1.	0.9	0
65	Light-Sources That Illuminate the Boundary Points All But the Vertices of a Convex Polyhedron. <i>Periodica Mathematica Hungarica</i> , 1997, 34, 17-21.	0.9	2
66	Minimal Translation Covers For Sets of Diameter 1. <i>Periodica Mathematica Hungarica</i> , 1997, 34, 23-27.	0.9	2
67	A Proof of Hadwiger's Covering Conjecture for Dual Cyclic Polytopes. <i>Geometriae Dedicata</i> , 1997, 68, 29-41.	0.3	13
68	Finite and uniform stability of sphere coverings. <i>Discrete and Computational Geometry</i> , 1995, 13, 313-319.	0.6	1
69	A Solution of Conway's Fried Potato Problem. <i>Bulletin of the London Mathematical Society</i> , 1995, 27, 492-496.	0.8	8
70	An illumination problem for zonoids. <i>Israel Journal of Mathematics</i> , 1993, 81, 265-272.	0.8	7
71	A note on the illumination of convex bodies. <i>Geometriae Dedicata</i> , 1993, 45, 89-91.	0.3	3
72	Hadwiger's covering conjecture and low dimensional dual cyclic polytopes. <i>Geometriae Dedicata</i> , 1993, 46, 279-286.	0.3	6

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73	Hadwiger-Levi's Covering Problem Revisited. Algorithms and Combinatorics, 1993, , 199-233.	0.6	20
74	Hadwiger's Covering Conjecture and its Relatives. American Mathematical Monthly, 1992, 99, 954.	0.3	4
75	Hadwiger's Covering Conjecture and Its Relatives. American Mathematical Monthly, 1992, 99, 954-956.	0.3	6
76	On illumination in the plane by line segments. Geometriae Dedicata, 1992, 41, 39.	0.3	1
77	On the illumination of smooth convex bodies. Archiv Der Mathematik, 1992, 58, 611-614.	0.5	10
78	On the illumination of unbounded closed convex sets. Israel Journal of Mathematics, 1992, 80, 87-96.	0.8	3
79	The problem of illumination of the boundary of a convex body by affine subspaces. Mathematika, 1991, 38, 362-375.	0.5	28
80	Lower bounds for packing densities. Acta Mathematica Hungarica, 1991, 57, 291-311.	0.5	1
81	Interior points of the convex hull of few points in \mathbb{E}^d . Monatshefte Fur Mathematik, 1991, 111, 181-186.	0.9	1
82	On the $(n-2)$ -transversals of n convex subsets of the plane. Geometriae Dedicata, 1991, 40, 263.	0.3	0
83	On hyperplanes and polytopes. Monatshefte Fur Mathematik, 1990, 109, 39-48.	0.9	5
84	Facets with fewest vertices. Monatshefte Fur Mathematik, 1990, 109, 89-96.	0.9	4
85	On the second smallest distance between finitely many points on the sphere. Geometriae Dedicata, 1989, 29, 141.	0.3	1
86	The thinnest holding-lattice of a set. Monatshefte Fur Mathematik, 1987, 103, 177-185.	0.9	2
87	Circle packings into convex domains of the Euclidean and hyperbolic plane and the sphere. Geometriae Dedicata, 1986, 21, 249-255.	0.3	3