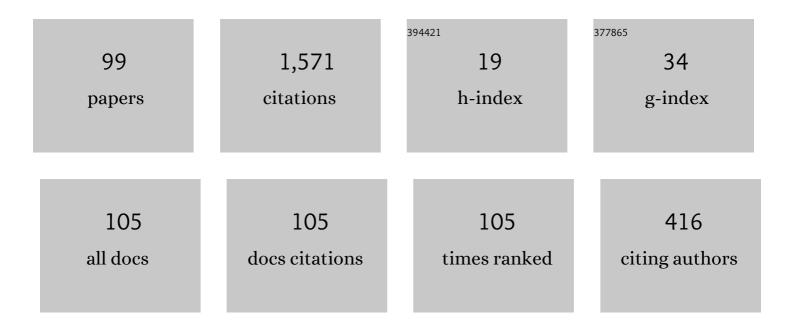
List of Publications by Year in descending order

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SEDCEL TABACHNIKOV

#	Article	IF	CITATIONS
1	Chapter 13 Rational billiards and flat structures. Handbook of Dynamical Systems, 2002, 1, 1015-1089.	0.6	150
2	Invariants of Legendrian and transverse knots in the standard contact space. Topology, 1997, 36, 1025-1053.	0.3	92
3	The Pentagram Map: A Discrete Integrable System. Communications in Mathematical Physics, 2010, 299, 409-446.	2.2	76
4	Title is missing!. International Mathematics Research Notices, 2003, 2003, 1853.	1.0	57
5	Pseudo-Riemannian geodesics and billiards. Advances in Mathematics, 2009, 221, 1364-1396.	1.1	56
6	More on Paperfolding. American Mathematical Monthly, 1999, 106, 27-35.	0.3	42
7	The Poncelet Grid and Billiards in Ellipses. American Mathematical Monthly, 2007, 114, 895-908.	0.3	36
8	Billiards in Finsler and Minkowski geometries. Journal of Geometry and Physics, 2002, 40, 277-301.	1.4	35
9	Topology of cyclic configuration spaces and periodic trajectories of multi-dimensional billiards. Topology, 2002, 41, 553-589.	0.3	32
10	Liouville–Arnold integrability of the pentagram map on closed polygons. Duke Mathematical Journal, 2013, 162, .	1.5	32
11	Dual Billiards. Mathematical Intelligencer, 2005, 27, 18-25.	0.2	27
12	Tractrices, Bicycle Tire Tracks, Hatchet Planimeters, and a 100-year-old Conjecture. American Mathematical Monthly, 2013, 120, 199.	0.3	27
13	2-frieze patterns and the cluster structure of the space of polygons. Annales De L'Institut Fourier, 2012, 62, 937-987.	0.6	26
14	Tire track geometry: Variations on a theme. Israel Journal of Mathematics, 2006, 151, 1-28.	0.8	25
15	More on Paperfolding. American Mathematical Monthly, 1999, 106, 27.	0.3	24
16	Linear difference equations, frieze patterns, and the combinatorial Gale transform. Forum of Mathematics, Sigma, 2014, 2, .	0.7	22
17	Estimates for the Bennequin number of Legendrian links from state models for knot polynomials. Mathematical Research Letters, 1997, 4, 143-156.	0.5	21
18	Totally skew embeddings of manifolds. Mathematische Zeitschrift, 2008, 258, 499-512.	0.9	20

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19	Osculating Curves: Around the Tait-Kneser Theorem. Mathematical Intelligencer, 2013, 35, 61-66.	0.2	20
20	Integrable cluster dynamics of directed networks and pentagram maps. Advances in Mathematics, 2016, 300, 390-450.	1.1	20
21	lvory's theorem revisited. Journal of Integrable Systems, 2017, 2, .	0.4	20
22	Dan Reznik's identities and more. European Journal of Mathematics, 2022, 8, 1341-1354.	0.5	19
23	Open problems, questions and challenges in finite- dimensional integrable systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170430.	3.4	18
24	On Bicycle Tire Tracks Geometry, Hatchet Planimeter, Menzin's Conjecture, and Oscillation of Unicycle Tracks. Experimental Mathematics, 2009, 18, 173-186.	0.7	17
25	Elementary Surprises in Projective Geometry. Mathematical Intelligencer, 2010, 32, 31-34.	0.2	17
26	Billiards in ellipses revisited. European Journal of Mathematics, 2022, 8, 1313-1327.	0.5	17
27	Centers of Mass of Poncelet Polygons, 200 Years After. Mathematical Intelligencer, 2016, 38, 29-34.	0.2	16
28	Tire Tracks and Integrable Curve Evolution. International Mathematics Research Notices, 2020, 2020, 2698-2768.	1.0	16
29	Dragon Curves Revisited. Mathematical Intelligencer, 2014, 36, 13-17.	0.2	15
30	On algebraically integrable outer billiards. Pacific Journal of Mathematics, 2008, 235, 89-92.	0.5	15
31	Introducing projective billiards. Ergodic Theory and Dynamical Systems, 1997, 17, 957-976.	0.6	13
32	Asymptotic dynamics of the dual billiard transformation. Journal of Statistical Physics, 1996, 83, 27-37.	1.2	12
33	Dual billiards in the hyperbolic plane*. Nonlinearity, 2002, 15, 1051-1072.	1.4	12
34	Commuting dual billiard maps. Geometriae Dedicata, 1994, 53, 57-68.	0.3	11
35	On fibrations with flat fibres. Bulletin of the London Mathematical Society, 2013, 45, 625-632.	0.8	11
36	Higher pentagram maps, weighted directed networks, and cluster dynamics. Electronic Research Announcements in Mathematical Sciences, 2012, 19, 1-17.	0.6	11

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37	On configuration spaces of plane polygons, sub-Riemannian geometry and periodic orbits of outer billiards. Journal of Modern Dynamics, 2007, 1, 155-173.	0.5	11
38	A proof of Culter's theorem on the existence of periodic orbits in polygonal outer billiards. Geometriae Dedicata, 2007, 129, 83-87.	0.3	10
39	Billiard transformations of parallel flows: A periscope theorem. Journal of Geometry and Physics, 2017, 115, 157-166.	1.4	10
40	On the bicycle transformation and the filament equation: Results and conjectures. Journal of Geometry and Physics, 2017, 115, 116-123.	1.4	10
41	Geometry of Lagrangian and Legendrian 2-web. Differential Geometry and Its Applications, 1993, 3, 265-284.	0.5	9
42	Periodic trajectories in 3-dimensional convex billiards. Manuscripta Mathematica, 2002, 108, 431-437.	0.6	9
43	Circumcenter of Mass and Generalized Euler Line. Discrete and Computational Geometry, 2014, 51, 815-836.	0.6	9
44	Hopf Fibrations and Hurwitz-Radon Numbers. Mathematical Intelligencer, 2016, 38, 11-18.	0.2	9
45	Wire billiards, the first steps. Advances in Mathematics, 2020, 368, 107154.	1.1	9
46	Self-dual polygons and self-dual curves. Functional Analysis and Other Mathematics, 2009, 2, 203-220.	0.3	8
47	Fagnano Orbits of Polygonal Dual Billiards. Geometriae Dedicata, 1999, 77, 279-286.	0.3	7
48	Going in Circles: Variations on the Money-Coutts Theorem. Geometriae Dedicata, 2000, 80, 201-209.	0.3	7
49	Introducing symplectic billiards. Advances in Mathematics, 2018, 333, 822-867.	1.1	7
50	Non-existence of \$n\$-dimensional \$T\$-embedded discs in \$mathbb R^{2n}\$. Commentarii Mathematici Helvetici, 2006, 81, 877-882.	0.7	7
51	A Four Vertex Theorem for Polygons. American Mathematical Monthly, 2000, 107, 830-833.	0.3	6
52	Dual Numbers, Weighted Quivers, and Extended Somos and Gale-Robinson Sequences. Algebras and Representation Theory, 2018, 21, 1119-1132.	0.7	6
53	On three-periodic trajectories of multi-dimensional dual billiards. Algebraic and Geometric Topology, 2003, 3, 993-1004.	0.4	6
54	The Pentagram Integrals on Inscribed Polygons. Electronic Journal of Combinatorics, 2011, 18, .	0.4	6

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55	Cross-ratio Dynamics on Ideal Polygons. International Mathematics Research Notices, 2022, 2022, 6770-6853.	1.0	6
56	The (Un)equal Tangents Problem. American Mathematical Monthly, 2012, 119, 398.	0.3	5
57	On curves and polygons with the equiangular chord property. Pacific Journal of Mathematics, 2015, 274, 305-324.	0.5	5
58	Remarks on the Circumcenter of Mass. Arnold Mathematical Journal, 2015, 1, 101-112.	0.4	5
59	Iterating Evolutes and Involutes. Discrete and Computational Geometry, 2017, 58, 80-143.	0.6	5
60	Variations on the Tait–Kneser Theorem. Mathematical Intelligencer, 2021, 43, 8-14.	0.2	5
61	Quasiperiodic motion for the pentagram map. Electronic Research Announcements in Mathematical Sciences, 2009, 16, 1-8.	0.6	5
62	Hyperbolic Carathéodory conjecture. Proceedings of the Steklov Institute of Mathematics, 2007, 258, 178-193.	0.3	4
63	Chases and Escapes. The Mathematics of Pursuit and Evasion by Paul J. Nahin. Mathematical Intelligencer, 2009, 31, 78-79.	0.2	4
64	TOPOLOGICAL ASPECTS OF THE DVORETZKY THEOREM. Journal of Topology and Analysis, 2010, 02, 453-467.	0.5	4
65	Variations on R. Schwartz's Inequality for the Schwarzian Derivative. Discrete and Computational Geometry, 2011, 46, 724-742.	0.6	4
66	Introducing supersymmetric frieze patterns and linear difference operators. Mathematische Zeitschrift, 2015, 281, 1061-1087.	0.9	4
67	On Centro-Affine Curves and BĀælund Transformations of the KdV Equation. Arnold Mathematical Journal, 2018, 4, 445-458.	0.4	4
68	Coxeter's frieze patterns and discretization of the Virasoro orbit. Journal of Geometry and Physics, 2015, 87, 373-381.	1.4	3
69	A Four Vertex Theorem for Polygons. American Mathematical Monthly, 2000, 107, 830.	0.3	3
70	Title is missing!. International Mathematics Research Notices, 1996, 1996, 705.	1.0	2
71	A Baker's Dozen of Problems. Arnold Mathematical Journal, 2015, 1, 59-67.	0.4	2
72	Polynomials as Polygons. Mathematical Intelligencer, 2017, 39, 41-43.	0.2	2

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73	Descartes Circle Theorem, Steiner Porism, and Spherical Designs. American Mathematical Monthly, 2020, 127, 238-248.	0.3	2
74	Two Variations on the Periscope Theorem. Regular and Chaotic Dynamics, 2020, 25, 11-17.	0.8	2
75	Four equivalent properties of integrable billiards. Israel Journal of Mathematics, 2021, 241, 693-719.	0.8	2
76	Projective Configuration Theorems: Old Wine into New Wineskins. , 2019, , 401-434.		2
77	Fun Problems in Geometry and Beyond. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	2
78	MASS program at penn state. Mathematical Intelligencer, 2002, 24, 50-56.	0.2	1
79	Arnold's Problem. Mathematical Intelligencer, 2007, 29, 49-52.	0.2	1
80	Existence and nonexistence of skew branes. Journal of Fixed Point Theory and Applications, 2010, 7, 419-431.	1.1	1
81	Discrete spherical means of directional derivatives and Veronese maps. Journal of Geometry and Physics, 2012, 62, 124-136.	1.4	1
82	The Ice Cube Proof. Mathematical Intelligencer, 2014, 36, 1-3.	0.2	1
83	Skewers. Arnold Mathematical Journal, 2016, 2, 171-193.	0.4	1
84	Configuration Spaces of Plane Polygons and a sub-Riemannian Approach to the Equitangent Problem. Journal of Dynamical and Control Systems, 2016, 22, 227-250.	0.8	1
85	Kasner Meets Poncelet. Mathematical Intelligencer, 2019, 41, 56-59.	0.2	1
86	Remarks on Joachimsthal Integral and Poritsky Property. Arnold Mathematical Journal, 2021, 7, 483-491.	0.4	1
87	Iterating Evolutes of Spacial Polygons and of Spacial Curves. Moscow Mathematical Journal, 2016, 16, 667-689.	0.4	1
88	Tribute to Vladimir Arnold. Notices of the American Mathematical Society, 2012, 59, 378.	0.2	1
89	Contact complete integrability. Regular and Chaotic Dynamics, 2010, 15, 504.	0.8	1
90	Open Problems on Billiards and Geometric Optics. Arnold Mathematical Journal, 0, , 1.	0.4	1

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91	Converse Sturm–Hurwitz–Kellogg theorem and related results. Journal of Fixed Point Theory and Applications, 2008, 3, 121-130.	1.1	0
92	The Six Circles Theorem Revisited. American Mathematical Monthly, 2016, 123, 689.	0.3	0
93	On Lagrangian tangent sweeps and Lagrangian outer billiards. Geometriae Dedicata, 2016, 182, 203-213.	0.3	0
94	Vladimir Igorevich Arnold. 12 June 1937—3 June 2010. Biographical Memoirs of Fellows of the Royal Society, 2018, 64, 7-26.	0.1	0
95	A Four-Vertex Theorem for Frieze Patterns?. Mathematical Intelligencer, 2018, 40, 14-18.	0.2	0
96	Polar Bear or Penguin? Musings on Earth Cartography and Chebyshev Nets. Mathematical Intelligencer, 2021, 43, 20-24.	0.2	0
97	Remarks on Rigidity Properties of Conics. Regular and Chaotic Dynamics, 2022, 27, 18-23.	0.8	0
98	Loewner's "Forgotten―Theorem. Mathematical Intelligencer, 2022, 44, 7-11.	0.2	0
99	Symplectically convex and symplectically star-shaped curves: a variational problem. Journal of Fixed Point Theory and Applications, 2022, 24, 1.	1.1	Ο