

Zoltán M Balogh

List of Publications by Year in descending order

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papers

697
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516710

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24
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51
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docs citations

51
times ranked

236
citing authors

#	ARTICLE	IF	CITATIONS
1	Geometric characterizations of Gromov hyperbolicity. <i>Inventiones Mathematicae</i> , 2003, 153, 261-301.	2.5	58
2	Polar coordinates in Carnot groups. <i>Mathematische Zeitschrift</i> , 2002, 241, 697-730.	0.9	46
3	Sub-Riemannian vs. Euclidean dimension comparison and fractal geometry on Carnot groups. <i>Advances in Mathematics</i> , 2009, 220, 560-619.	1.1	36
4	Intrinsic curvature of curves and surfaces and a Gauss-Bonnet theorem in the Heisenberg group. <i>Mathematische Zeitschrift</i> , 2017, 287, 1-38.	0.9	35
5	Singular solutions, homogeneous norms, and quasiconformal mappings in Carnot groups. <i>Mathematische Annalen</i> , 2002, 324, 159-186.	1.4	34
6	Fundamental solution for the Q -Laplacian and sharp Moser-Trudinger inequality in Carnot groups. <i>Journal of Functional Analysis</i> , 2003, 204, 35-49.	1.4	32
7	Projection and slicing theorems in Heisenberg groups. <i>Advances in Mathematics</i> , 2012, 231, 569-604.	1.1	27
8	Absolute Continuity of Quasiconformal Mappings on Curves. <i>Geometric and Functional Analysis</i> , 2007, 17, 645-664.	1.8	26
9	Hausdorff dimension distribution of quasiconformal mappings on the Heisenberg group. <i>Journal D'Analyse Mathématique</i> , 2001, 83, 289-312.	0.8	25
10	Lifts of Lipschitz maps and horizontal fractals in the Heisenberg group. <i>Ergodic Theory and Dynamical Systems</i> , 2006, 26, 621.	0.6	24
11	Quasiconformality, quasisymmetry, and removability in Loewner spaces. Appendice par Jussi Väisälä. <i>Duke Mathematical Journal</i> , 2000, 101, .	1.5	23
12	Lions-type compactness and Rubik actions on the Heisenberg group. <i>Calculus of Variations and Partial Differential Equations</i> , 2013, 48, 89-109.	1.7	21
13	The effect of projections on dimension in the Heisenberg group. <i>Revista Matemática Iberoamericana</i> , 2013, 29, 381-432.	0.9	20
14	Rectifiability and Lipschitz extensions into the Heisenberg group. <i>Mathematische Zeitschrift</i> , 2009, 263, 673-683.	0.9	19
15	Size of tangencies to non-involutive distributions. <i>Indiana University Mathematics Journal</i> , 2011, 60, 2061-2092.	0.9	19
16	Sharp isoperimetric and Sobolev inequalities in spaces with nonnegative Ricci curvature. <i>Mathematische Annalen</i> , 2023, 385, 1747-1773.	1.4	19
17	Sphericalization and flattening. <i>Conformal Geometry and Dynamics</i> , 2005, 09, 76-102.	0.5	16
18	Functional Inequalities and Hamilton-Jacobi Equations in Geodesic Spaces. <i>Potential Analysis</i> , 2012, 36, 317-337.	0.9	16

#	ARTICLE	IF	CITATIONS
19	The Stepanov differentiability theorem in metric measure spaces. <i>Journal of Geometric Analysis</i> , 2004, 14, 405-422.	1.0	15
20	Hausdorff dimensions of self-similar and self-affine fractals in the Heisenberg group. <i>Proceedings of the London Mathematical Society</i> , 2005, 91, 153-183.	1.3	15
21	Scaled-oscillation and regularity. <i>Proceedings of the American Mathematical Society</i> , 2006, 134, 2667-2675.	0.8	15
22	Geometric inequalities on Heisenberg groups. <i>Calculus of Variations and Partial Differential Equations</i> , 2018, 57, 1.	1.7	13
23	Modulus of curve families and extremality of spiral-stretch maps. <i>Journal D'Analyse Mathématique</i> , 2011, 113, 265-291.	0.8	11
24	Frequency of Sobolev and quasiconformal dimension distortion. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2013, 99, 125-149.	1.6	11
25	Self-similar sets in doubling spaces. <i>Illinois Journal of Mathematics</i> , 2007, 51, .	0.1	11
26	Modulus method and radial stretch map in the Heisenberg group. <i>Annales Academiae Scientiarum Fennicae Mathematica</i> , 2013, 38, 149-180.	0.7	10
27	Uniformly Quasiregular Maps on the Compactified Heisenberg Group. <i>Journal of Geometric Analysis</i> , 2012, 22, 633-665.	1.0	8
28	Lengths of radii under conformal maps of the unit disc. <i>Proceedings of the American Mathematical Society</i> , 1999, 127, 801-804.	0.8	7
29	Jacobian determinant inequality on corank 1 Carnot groups with applications. <i>Journal of Functional Analysis</i> , 2019, 277, 108293.	1.4	7
30	Sharp comparison and maximum principles via horizontal normal mapping in the Heisenberg group. <i>Journal of Functional Analysis</i> , 2015, 269, 2669-2708.	1.4	6
31	Isometric embeddings into Heisenberg groups. <i>Geometriae Dedicata</i> , 2018, 195, 163-192.	0.3	6
32	Equality in Borell-Brascamp-Lieb inequalities on curved spaces. <i>Advances in Mathematics</i> , 2018, 339, 453-494.	1.1	6
33	Gromov's dimension comparison problem on Carnot groups. <i>Comptes Rendus Mathématique</i> , 2008, 346, 135-138.	0.3	5
34	The Hopf-Lax formula in Carnot groups: a control theoretic approach. <i>Calculus of Variations and Partial Differential Equations</i> , 2014, 49, 1379-1414.	1.7	5
35	Steiner's formula in the Heisenberg group. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2015, 126, 201-217.	1.1	5
36	Uniqueness of minimisers for a Grötzsch-Belinski-type inequality in the Heisenberg group. <i>Conformal Geometry and Dynamics</i> , 2015, 19, 122-145.	0.5	5

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37	Functional equations and the Cauchy mean value theorem. <i>Aequationes Mathematicae</i> , 2016, 90, 683-697.	0.8	5
38	Dimensions of projections of sets on Riemannian surfaces of constant curvature. <i>Proceedings of the American Mathematical Society</i> , 2016, 144, 2939-2951.	0.8	4
39	Box-counting by Hölder's traveling salesman. <i>Archiv Der Mathematik</i> , 2020, 114, 561-572.	0.5	4
40	Dimension Distortion by Sobolev Mappings in Foliated Metric Spaces. <i>Analysis and Geometry in Metric Spaces</i> , 2013, 1, 232-254.	0.5	3
41	Grassmannian Frequency of Sobolev Dimension Distortion. <i>Computational Methods and Function Theory</i> , 2014, 14, 505-523.	1.5	3
42	Accessible domains in the Heisenberg group. <i>Proceedings of the American Mathematical Society</i> , 2003, 132, 97-106.	0.8	2
43	Exceptional sets for self-similar fractals in Carnot groups. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2010, 149, 147-172.	0.4	2
44	Geodesic interpolation inequalities on Heisenberg groups. <i>Comptes Rendus Mathematique</i> , 2016, 354, 916-919.	0.3	2
45	Sobolev inequalities with jointly concave weights on convex cones. <i>Proceedings of the London Mathematical Society</i> , 2021, 122, 537-568.	1.3	2
46	Marstrand type projection theorems for normed spaces. <i>Journal of Fractal Geometry</i> , 2019, 6, 367-392.	0.7	1
47	Infinite Geodesics of Sub-Finsler Distances in Heisenberg Groups. <i>International Mathematics Research Notices</i> , 2021, 2021, 4805-4837.	1.0	1
48	On the local boundedness of maximal H-monotone operators. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2017, 148, 88-105.	1.1	0
49	On singular sets of c -concave functions. <i>Manuscripta Mathematica</i> , 2018, 156, 503-519.	0.6	0
50	Projection theorems in hyperbolic space. <i>Archiv Der Mathematik</i> , 2019, 112, 329-336.	0.5	0