

Karsten Grove

List of Publications by Year in descending order

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51
papers

1,938
citations

236925

25
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

324
citing authors

#	ARTICLE	IF	CITATIONS
1	A Generalized Sphere Theorem. <i>Annals of Mathematics</i> , 1977, 106, 201.	4.2	225
2	Curvature and Symmetry of Milnor Spheres. <i>Annals of Mathematics</i> , 2000, 152, 331.	4.2	135
3	How to conjugate C^1 -close group actions. <i>Mathematische Zeitschrift</i> , 1973, 132, 11-20.	0.9	110
4	Bounding Homotopy Types by Geometry. <i>Annals of Mathematics</i> , 1988, 128, 195.	4.2	96
5	Cohomogeneity one manifolds with positive Ricci curvature. <i>Inventiones Mathematicae</i> , 2002, 149, 619-646.	2.5	92
6	Jacobi fields and Finsler metrics on compact Lie groups with an application to differentiable pinching problems. <i>Mathematische Annalen</i> , 1974, 211, 7-21.	1.4	89
7	Geometric finiteness theorems via controlled topology. <i>Inventiones Mathematicae</i> , 1990, 99, 205-213.	2.5	88
8	Positively curved cohomogeneity one manifolds and 3-Sasakian geometry. <i>Journal of Differential Geometry</i> , 2008, 78, .	1.1	80
9	The low-dimensional metric foliations of Euclidean spheres. <i>Journal of Differential Geometry</i> , 1988, 28, 143.	1.1	66
10	Group actions and curvature. <i>Inventiones Mathematicae</i> , 1974, 23, 31-48.	2.5	61
11	Dupin hypersurfaces, group actions and the double mapping cylinder. <i>Journal of Differential Geometry</i> , 1987, 26, .	1.1	58
12	Manifolds near the boundary of existence. <i>Journal of Differential Geometry</i> , 1991, 33, 379.	1.1	57
13	An Exotic $T^1\text{-}\mathbb{S}^4$ with Positive Curvature. <i>Geometric and Functional Analysis</i> , 2011, 21, 499-524.	1.8	56
14	A generalization of Berger's rigidity theorem for positively curved manifolds. <i>Annales Scientifiques De L'Ecole Normale Supérieure</i> , 1987, 20, 227-239.	0.8	52
15	A radius sphere theorem. <i>Inventiones Mathematicae</i> , 1993, 112, 577-583.	2.5	47
16	Diagonalizing matrices over $C(X)$. <i>Journal of Functional Analysis</i> , 1984, 59, 65-89.	1.4	46
17	Differential topological restrictions curvature and symmetry. <i>Journal of Differential Geometry</i> , 1997, 47, 530.	1.1	43
18	New extremal problems for the Riemannian recognition program via Alexandrov geometry. <i>Journal of the American Mathematical Society</i> , 1995, 8, 1-28.	3.9	41

#	ARTICLE	IF	CITATIONS
19	Condition (C) for the energy integral on certain path spaces and applications to the theory of geodesics. <i>Journal of Differential Geometry</i> , 1973, 8, .	1.1	40
20	A knot characterization and 1 -connected nonnegatively curved 4 -manifolds with circle symmetry. <i>Geometry and Topology</i> , 2014, 18, 3091-3110.	1.3	37
21	Geometry of, and via, symmetries. <i>University Lecture Series</i> , 2002, , 31-53.	0.0	36
22	Metric differential geometri. <i>Lecture Notes in Mathematics</i> , 1987, , 171-227.	0.2	33
23	Contributions of rational homotopy theory to global problems in geometry. <i>Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques</i> , 1982, 56, 171-177.	4.3	31
24	Isometry-invariant geodesics. <i>Topology</i> , 1974, 13, 281-292.	0.3	30
25	The rational homotopy theory of certain path spaces with applications to geodesics. <i>Acta Mathematica</i> , 1978, 140, 277-303.	3.9	27
26	Polar manifolds and actions. <i>Journal of Fixed Point Theory and Applications</i> , 2012, 11, 279-313.	1.1	25
27	Hard and Soft Packing Radius Theorems. <i>Annals of Mathematics</i> , 1995, 142, 213.	4.2	23
28	A pinching theorem for homotopy spheres. <i>Journal of the American Mathematical Society</i> , 1990, 3, 671-677.	3.9	22
29	On the number of invariant closed geodesics. <i>Acta Mathematica</i> , 1978, 140, 33-48.	3.9	21
30	Sub-Stonian spaces and corona sets. <i>Journal of Functional Analysis</i> , 1984, 56, 124-143.	1.4	21
31	Rank two fundamental groups of positively curved manifolds. <i>Journal of Geometric Analysis</i> , 2000, 10, 679-682.	1.0	19
32	Lifting group actions and nonnegative curvature. <i>Transactions of the American Mathematical Society</i> , 2011, 363, 2865-2865.	0.9	17
33	Volume comparison $\tilde{\text{A}}$ la Aleksandrov. <i>Acta Mathematica</i> , 1992, 169, 131-151.	3.9	15
34	Global G-Manifold Reductions and Resolutions. <i>Annals of Global Analysis and Geometry</i> , 2000, 18, 437-446.	0.6	13
35	Homotopy Types of Positively Curved Manifolds with Large Volume. <i>American Journal of Mathematics</i> , 1988, 110, 1183.	1.1	11
36	Elliptic isometries, condition (C) and proper maps. <i>Archiv Der Mathematik</i> , 1991, 56, 288-299.	0.5	10

#	ARTICLE	IF	CITATIONS
37	Developments around positive sectional curvature. <i>Journal of Differential Geometry</i> , 2008, 13, 117-134.	1.0	9
38	Curvature, triameter, and beyond. <i>Bulletin of the American Mathematical Society</i> , 1992, 27, 261-265.	1.5	8
39	RIGIDITY OF POSITIVELY CURVED MANIFOLDS WITH LARGE DIAMETER. , 1982, , 203-208.		7
40	Tits geometry and positive curvature. <i>Acta Mathematica</i> , 2017, 218, 1-53.	3.9	6
41	On the number of invariant closed geodesics. <i>Bulletin of the American Mathematical Society</i> , 1976, 82, 497-498.	3.9	5
42	Rigidity theorems for submetries in positive curvature. <i>Advances in Mathematics</i> , 2016, 289, 784-796.	1.1	5
43	Involution-invariant geodesics.. <i>Mathematica Scandinavica</i> , 0, 36, 97.	0.2	5
44	Group actions and curvature. <i>Bulletin of the American Mathematical Society</i> , 1975, 81, 89-93.	3.9	4
45	The isometry-invariant geodesics problem: Closed and open. <i>Lecture Notes in Mathematics</i> , 1985, , 125-140.	0.2	3
46	The even dimensional pinching problem and $SU(3)/T$. <i>Geometriae Dedicata</i> , 1989, 29, 327-334.	0.3	3
47	Reflection groups in non-negative curvature. <i>Journal of Differential Geometry</i> , 2016, 102, .	1.1	3
48	Rank three geometry and positive curvature. <i>Communications in Analysis and Geometry</i> , 2016, 24, 487-520.	0.4	3
49	Center of Mass and G-Local Triviality of G-Bundles. <i>Proceedings of the American Mathematical Society</i> , 1976, 54, 352.	0.8	2
50	Metric constraints on exotic spheres via Alexandrov geometry.. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 1997, 1997, 201-217.	0.9	2
51	Guest Editors' Introduction to a Special Issue in Memory of Alfred Gray (1939â€“1998). <i>Annals of Global Analysis and Geometry</i> , 2000, 18, 205-206.	0.6	0