Vladimir Matveev

List of Publications by Year
in descending order

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95	1,331	304743	454955
papers	citations	22 h-index	30 g-index

99	99	99	258
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A solution of a problem of Sophus Lie: normal forms of two-dimensional metrics admitting two projective vector fields. Mathematische Annalen, 2008, 340, 437-463.	1.4	59
2	Geometrical interpretation of Benenti systems. Journal of Geometry and Physics, 2003, 44, 489-506.	1.4	58
3	Two-dimensional Riemannian metrics with integrable geodesic flows. Local and global geometry. Sbornik Mathematics, 1998, 189, 1441-1466.	0.6	50
4	Geodesic Equivalence via Integrability. Geometriae Dedicata, 2003, 96, 91-115.	0.3	50
5	Proof of the projective Lichnerowicz-Obata conjecture. Journal of Differential Geometry, 2007, 75, .	1.1	41
6	Integrable Hamiltonian system with two degrees of freedom. The topological structure of saturated neighbourhoods of points of focus-focus and saddle-saddle type. Sbornik Mathematics, 1996, 187, 495-524.	0.6	40
7	Metric Connections in Projective Differential Geometry. The IMA Volumes in Mathematics and Its Applications, 2008, , 339-350.	0.5	38
8	The Binetâ€“Legendre Metric in Finsler Geometry. Geometry and Topology, 2012, 16, 2135-2170.	1.3	38
9	Complete Einstein Metrics are Geodesically Rigid. Communications in Mathematical Physics, 2009, 289, 383-400.	2.2	37
10	Hyperbolic manifolds are geodesically rigid. Inventiones Mathematicae, 2003, 151, 579-609.	2.5	34
11	Two-dimensional superintegrable metrics with one linear and one cubic integral. Journal of Geometry and Physics, 2011, 61, 1353-1377.	1.4	34
12	Quantum integrability of Beltrami-Laplace operator as geodesic equivalence. Mathematische Zeitschrift, 2001, 238, 833-866.	0.9	32
13	Proof of the Projective Lichnerowicz Conjecture for Pseudo-Riemannian Metrics with Degree of Mobility Greater than Two. Communications in Mathematical Physics, 2010, 297, 401-426.	2.2	32
14	Geodesically equivalent metrics in general relativity. Journal of Geometry and Physics, 2012, 62, 675-691.	1.4	32
15	A new integrable system on the sphere. Mathematical Research Letters, 2004, 11, 715-722.	0.5	30
16	Gallotâ€“Tanno theorem for closed incomplete pseudo-Riemannian manifolds and applications. Annals of Global Analysis and Geometry, 2010, 38, 259-271.	0.6	25
17	There exist no 4-dimensional geodesically equivalent metrics with the same stressâ€“energy tensor. Journal of Geometry and Physics, 2014, 78, 1-11.	1.4	25
18	A Fubini theorem for pseudo-Riemannian geodesically equivalent metrics. Journal of the London Mathematical Society, 2009, 80, 341-356.	1.0	23

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19	There are no conformal Einstein rescalings of complete pseudo-Riemannian Einstein metrics. Comptes Rendus Mathematique, 2009, 347, 1067-1069.	0.3	23
20	Splitting and gluing lemmas for geodesically equivalent pseudo-Riemannian metrics. Transactions of the American Mathematical Society, 2011, 363, 4081-4081.	0.9	23
21	The only KÃhler manifold with degree of mobility at least 3 is (â„„P (n), <sub> É¡) Tj ETQq1 1 0.784314 rgBT /Ov	1.3	23
22	Finsler Conformal Lichnerowicz-Obata conjecture. Annales De L'Institut Fourier, 2009, 59, 937-949.	0.6	23
23	Lichnerowicz-Obata conjecture in dimension two. Commentarii Mathematici Helvetici, 2005, 80, 541-570.	0.7	22
24	Local normal forms for geodesically equivalent pseudo-Riemannian metrics. Transactions of the American Mathematical Society, 2014, 367, 6719-6749.	0.9	22
25	GEOMETRIC EXPLANATION OF THE BELTRAMI THEOREM. International Journal of Geometric Methods in Modern Physics, 2006, 03, 623-629.	2.0	21
26	On the degree of geodesic mobility for Riemannian metrics. Mathematical Notes, 2010, 87, 586-587.	0.4	21
27	The geodesic flow of a generic metric does not admit nontrivial integrals polynomial in momenta. Nonlinearity, 2016, 29, 1755-1768.	1.4	21
28	Normal forms for pseudo-Riemannian 2-dimensional metrics whose geodesic flows admit integrals quadratic in momenta. Journal of Geometry and Physics, 2009, 59, 1048-1062.	1.4	19
29	Two-dimensional metrics admitting precisely one projective vector field. Mathematische Annalen, 2012, 352, 865-909.	1.4	18
30	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
31	Three-dimensional manifolds having metrics with the same geodesics. Topology, 2003, 42, 1371-1395.	0.3	17
32	Nonexistence of an integral of the 6th degree in momenta for the Zipoy-Voorhees metric. Physical Review D, 2012, 85, .	4.7	14
33	A Criterion for Compatibility of Conformal and Projective Structures. Communications in Mathematical Physics, 2014, 329, 821-825.	2.2	14
34	Nijenhuis geometry. Advances in Mathematics, 2022, 394, 108001.	1.1	14
35	Proof of the Yano-Obata conjecture for h-projective transformations. Journal of Differential Geometry, 2012, 92, .	1.1	14
36	Integrability in the theory of geodesically equivalent metrics. Journal of Physics A, 2001, 34, 2415-2433.	1.6	13

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37	Die Vermutung von Obata fï¿½r Dimension 2. Archiv Der Mathematik, 2004, 82, 273-281.	0.5	13
38	Projectively related metrics, Weyl nullity and metric projectively invariant equations. Proceedings of the London Mathematical Society, 2017, 114, 242-292.	1.3	13
39	Metric with ergodic geodesic flow is completely determined by unparameterized geodesics. Electronic Research Announcements in Mathematical Sciences, 2000, 6, 98-104.	0.7	12
40	Geschlossene hyperbolische 3-Mannigfaltigkeiten sind geodÃtisch starr. Manuscripta Mathematica, 2001, 105, 343-352.	0.6	12
41	Open problems and questions about geodesics. Ergodic Theory and Dynamical Systems, 2021, 41, 641-684.	0.6	12
42	Applications of Nijenhuis geometry II: maximal pencils of multi-Hamiltonian structures of hydrodynamic type. Nonlinearity, 2021, 34, 5136-5162.	1.4	12
43	Projectively equivalent metrics on the torus. Differential Geometry and Its Applications, 2004, 20, 251-265.	0.5	11
44	Conification construction for KÃhler manifolds and its application in c-projective geometry. Advances in Mathematics, 2015, 274, 1-38.	1.1	11
45	Gallotâ€“Tanno theorem for pseudo-Riemannian metrics and a proof that decomposable cones over closed complete pseudo-Riemannian manifolds do not exist. Differential Geometry and Its Applications, 2010, 28, 236-240.	0.5	10
46	Chains in CR geometry as geodesics of a Kropina metric. Advances in Mathematics, 2019, 350, 973-999.	1.1	10
47	Degree of mobility for metrics of Lorentzian signature and parallel (0,2)-tensor fields on cone manifolds. Proceedings of the London Mathematical Society, 2014, 108, 1277-1312.	1.3	9
48	Projectively Invariant Objects and the Index of the Group of Affine Transformations in the Group of Projective Transformations. Bulletin of the Iranian Mathematical Society, 2018, 44, 341-375.	1.0	9
49	Zermelo deformation of finsler metrics by killing vector fields. Electronic Research Announcements in Mathematical Sciences, 2018, 25, 1-7.	0.6	9
50	Differential invariants for cubic integrals of geodesic flows on surfaces. Journal of Geometry and Physics, 2010, 60, 833-856.	1.4	8
51	ON PROJECTIVE EQUIVALENCE AND POINTWISE PROJECTIVE RELATION OF RANDERS METRICS. International Journal of Mathematics, 2012, 23, 1250093.	0.5	8
52	Light cone and Weyl compatibility of conformal and projective structures. General Relativity and Gravitation, 2020, 52, 1.	2.0	8
53	Three-manifolds admitting metrics with the same geodesics. Mathematical Research Letters, 2002, 9, 267-276.	0.5	8
54	Pseudo-Riemannian metrics on closed surfaces whose geodesic flows admit nontrivial integrals quadratic in momenta, and proof of the projective Obata conjecture for two-dimensional pseudo-Riemannian metrics. Journal of the Mathematical Society of Japan, 2012, 64, .	0.4	7

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55	Applications of Nijenhuis geometry: non-degenerate singular points of Poissonâ€“Nijenhuis structures. European Journal of Mathematics, 2022, 8, 1355-1376.	0.5	7
56	On degree of mobility for complete metrics. , 0, , .		7
57	Strictly non-proportional geodesically equivalent metrics have h top (g) = 0. Ergodic Theory and Dynamical Systems, 2006, 26, 247.	0.6	6
58	Compatibility of GauÃŸ maps with metrics. Differential Geometry and Its Applications, 2010, 28, 228-235.	0.5	6
59	Submaximal metric projective and metric affine structures. Differential Geometry and Its Applications, 2014, 33, 70-80.	0.5	6
60	Four-dimensional KÃhler metrics admitting c-projective vector fields. Journal Des Mathematiques Pures Et Appliquees, 2015, 103, 619-657.	1.6	6
61	Submaximally symmetric c-projective structures. International Journal of Mathematics, 2016, 27, 1650022.	0.5	6
62	On the rigidity of magnetic systems with the same magnetic geodesics. Proceedings of the American Mathematical Society, 2006, 134, 427-434.	0.8	6
63	The eigenvalues of the Sinyukov mapping for geodesically equivalent metrics are globally ordered. Mathematical Notes, 2005, 77, 380-390.	0.4	5
64	Vanishing of the entropy pseudonorm for certain integrable systems. Electronic Research Announcements in Mathematical Sciences, 2006, 12, 19-28.	0.7	5
65	Monochromatic metrics are generalized Berwald. Differential Geometry and Its Applications, 2018, 58, 264-271.	0.5	5
66	Singularities of momentum maps of integrable Hamiltonian systems with two degrees of freedom. Journal of Mathematical Sciences, 1999, 94, 1477-1500.	0.4	4
67	Isometries of two dimensional Hilbert geometries. L'Enseignement Mathematique, 2015, 61, 453-460.	0.1	4
68	The Myers-Steenrod theorem for Finsler manifolds of low regularity. Proceedings of the American Mathematical Society, 2017, 145, 2699-2712.	0.8	4
69	Proof of Laugwitz Conjecture and Landsberg Unicorn Conjecture for Minkowski norms with -symmetry. Canadian Journal of Mathematics, 2022, 74, 1486-1516.	0.6	4
70	Can We Make a Finsler Metric Complete by a Trivial Projective Change?. Springer Proceedings in Mathematics and Statistics, 2012, , 231-242.	0.2	4
71	CLOSED MANIFOLDS ADMITTING METRICS WITH THE SAME GEODESICS. , 2005, , .		4
72	Some remarks on Nijenhuis brackets, formality, and KÃhler manifolds. Advances in Geometry, 2013, 13, 571-581.	0.4	3

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73	TWO REMARKS ON PQÎµ-PROJECTIVITY OF RIEMANNIAN METRICS. Glasgow Mathematical Journal, 2013, 55, 131-138.	0.3	3
74	Curvature and the c-projective mobility of KÃhlerÂmetricsÂwith hamiltonian 2-forms. Compositio Mathematica, 2016, 152, 1555-1575.	0.8	3
75	Geodesic Random Walks, Diffusion Processes and Brownian Motion on Finsler Manifolds. Journal of Geometric Analysis, 2021, 31, 12446-12484.	1.0	3
76	Geodesic behavior for Finsler metrics of constant positive flag curvature on S^2. Journal of Differential Geometry, 2021, 117, .	1.1	3
77	Smoothing 3-dimensional polyhedral spaces. Electronic Research Announcements in Mathematical Sciences, 2015, 22, 12-19.	0.6	3
78	Geodesic equivalence of metrics as a particular case of integrability of geodesic flows. Theoretical and Mathematical Physics(Russian Federation), 2000, 123, 651-658.	0.9	2
79	Completeness and incompleteness of the Binetâ€“Legendre metric. European Journal of Mathematics, 2015, 1, 483-502.	0.5	2
80	A counterexample to Belgunâ€“Moroianu conjecture. Comptes Rendus Mathematique, 2015, 353, 455-457.	0.3	2
81	There exist no locally symmetric Finsler spaces of positive or negative flag curvature. Comptes Rendus Mathematique, 2015, 353, 81-83.	0.3	2
82	The degree of mobility of Einstein metrics. Journal of Geometry and Physics, 2016, 99, 42-56.	1.4	2
83	Almost All Finsler Metrics have Infinite Dimensional Holonomy Group. Journal of Geometric Analysis, 2021, 31, 6067-6079.	1.0	2
84	Editorsâ€™ foreword for the special issue â€œFinsler geometry, new methods and perspectivesâ€. European Journal of Mathematics, 2017, 3, 763-766.	0.5	1
85	On the Lichnerowicz conjecture for CR manifolds with mixed signature. Comptes Rendus Mathematique, 2018, 356, 532-537.	0.3	1
86	On the groups of c-projective transformations of complete KÃhler manifolds. Annals of Global Analysis and Geometry, 2018, 54, 329-352.	0.6	1
87	Conformally related Douglas metrics in dimension two are Randers. Archiv Der Mathematik, 2021, 116, 221-231.	0.5	1
88	On the equation DutHDu=G. Nonlinear Analysis: Theory, Methods & Applications, 2022, 214, 112554.	1.1	1
89	Locally conformally Berwald manifolds and compact quotients of reducible manifolds by homotheties. Annales De L'Institut Fourier, 2017, 67, 843-862.	0.6	1
90	On the Dimension of the Group of Projective Transformations of Closed Randers and Riemannian Manifolds. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2012, , .	0.5	1

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91	Commuting Operators and Separation of Variables for Laplacians of Projectively Equivalent Metrics. Letters in Mathematical Physics, 2000, 54, 193-201.	1.1	0
92	Editorsâ€™ preface for the topical issue â€œFinite dimensional integrable systems, dynamics, and Lie theoretic methods in Geometry and Mathematical Physicsâ€. Central European Journal of Mathematics, 2012, 10, 1593-1595.	0.7	0
93	On Integrable Natural Hamiltonian Systems on the Suspensions of Toric Automorphism. Qualitative Theory of Dynamical Systems, 2012, 11, 443-447.	1.7	0
94	Locally 2-fold symmetric manifolds are locally symmetric. Archiv Der Mathematik, 2017, 108, 521-525.	0.5	0
95	On the Number of Nontrivial Projective Transformations of Closed Manifolds. Journal of Mathematical Sciences, 2017, 223, 734-738.	0.4	0