# Vladimir Matveev

List of Publications by Year
in descending order

| | |
|---|---|
| 95 papers | 1,331 citations |

304743

| | |
|---|---|
| 22 h-index | |

454955

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|---|---|
| 30 g-index | |

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|---|---|
| 99 all docs | 99 docs citations |

| | |
|---|---|
| 99 times ranked | 258 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Applications of Nijenhuis geometry: non-degenerate singular points of Poisson–Nijenhuis structures. European Journal of Mathematics, 2022, 8, 1355-1376. | 0.5 | 7 |
| 2 | Proof of Laugwitz Conjecture and Landsberg Unicorn Conjecture for Minkowski norms with -symmetry. Canadian Journal of Mathematics, 2022, 74, 1486-1516. | 0.6 | 4 |
| 3 | Nijenhuis geometry. Advances in Mathematics, 2022, 394, 108001. | 1.1 | 14 |
| 4 | On the equation DutHDu=G. Nonlinear Analysis: Theory, Methods & Applications, 2022, 214, 112554. | 1.1 | 1 |
| 5 | Almost All Finsler Metrics have Infinite Dimensional Holonomy Group. Journal of Geometric Analysis, 2021, 31, 6067-6079. | 1.0 | 2 |
| 6 | Conformally related Douglas metrics in dimension two are Randers. Archiv Der Mathematik, 2021, 116, 221-231. | 0.5 | 1 |
| 7 | Open problems and questions about geodesics. Ergodic Theory and Dynamical Systems, 2021, 41, 641-684. | 0.6 | 12 |
| 8 | Applications of Nijenhuis geometry II: maximal pencils of multi-Hamiltonian structures of hydrodynamic type. Nonlinearity, 2021, 34, 5136-5162. | 1.4 | 12 |
| 9 | Geodesic Random Walks, Diffusion Processes and Brownian Motion on Finsler Manifolds. Journal of Geometric Analysis, 2021, 31, 12446-12484. | 1.0 | 3 |
| 10 | Geodesic behavior for Finsler metrics of constant positive flag curvature on $S^2$. Journal of Differential Geometry, 2021, 117, . | 1.1 | 3 |
| 11 | Light cone and Weyl compatibility of conformal and projective structures. General Relativity and Gravitation, 2020, 52, 1. | 2.0 | 8 |
| 12 | Chains in CR geometry as geodesics of a Kropina metric. Advances in Mathematics, 2019, 350, 973-999. | 1.1 | 10 |
| 13 | Monochromatic metrics are generalized Berwald. Differential Geometry and Its Applications, 2018, 58, 264-271. | 0.5 | 5 |
| 14 | 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 |
| 15 | 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 |
| 16 | On the Lichnerowicz conjecture for CR manifolds with mixed signature. Comptes Rendus Mathematique, 2018, 356, 532-537. | 0.3 | 1 |
| 17 | On the groups of c-projective transformations of complete Kähler manifolds. Annals of Global Analysis and Geometry, 2018, 54, 329-352. | 0.6 | 1 |
| 18 | Zermelo deformation of finsler metrics by killing vector fields. Electronic Research Announcements in Mathematical Sciences, 2018, 25, 1-7. | 0.6 | 9 |

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|---|---------|-----|-----------|
| 19 | Projectively related metrics, Weyl nullity and metric projectively invariant equations. Proceedings of the London Mathematical Society, 2017, 114, 242-292. | 1.3 | 13 |
| 20 | The Myers-Steenrod theorem for Finsler manifolds of low regularity. Proceedings of the American Mathematical Society, 2017, 145, 2699-2712. | 0.8 | 4 |
| 21 | Locally 2-fold symmetric manifolds are locally symmetric. Archiv Der Mathematik, 2017, 108, 521-525. | 0.5 | 0 |
| 22 | On the Number of Nontrivial Projective Transformations of Closed Manifolds. Journal of Mathematical Sciences, 2017, 223, 734-738. | 0.4 | 0 |
| 23 | Editors' foreword for the special issue "Finsler geometry, new methods and perspectives" European Journal of Mathematics, 2017, 3, 763-766. | 0.5 | 1 |
| 24 | Locally conformally Berwald manifolds and compact quotients of reducible manifolds by homotheties. Annales De L'Institut Fourier, 2017, 67, 843-862. | 0.6 | 1 |
| 25 | Curvature and the c-projective mobility of Kähler metrics with hamiltonian 2-forms. Compositio Mathematica, 2016, 152, 1555-1575. | 0.8 | 3 |
| 26 | The geodesic flow of a generic metric does not admit nontrivial integrals polynomial in momenta. Nonlinearity, 2016, 29, 1755-1768. | 1.4 | 21 |
| 27 | Submaximally symmetric c-projective structures. International Journal of Mathematics, 2016, 27, 1650022. | 0.5 | 6 |
| 28 | The degree of mobility of Einstein metrics. Journal of Geometry and Physics, 2016, 99, 42-56. | 1.4 | 2 |
| 29 | Isometries of two dimensional Hilbert geometries. L'Enseignement Mathematique, 2015, 61, 453-460. | 0.1 | 4 |
| 30 | Completeness and incompleteness of the Binet–Legendre metric. European Journal of Mathematics, 2015, 1, 483-502. | 0.5 | 2 |
| 31 | A counterexample to Belgun–Moroianu conjecture. Comptes Rendus Mathematique, 2015, 353, 455-457. | 0.3 | 2 |
| 32 | Four-dimensional Kähler metrics admitting c-projective vector fields. Journal Des Mathematiques Pures Et Appliquees, 2015, 103, 619-657. | 1.6 | 6 |
| 33 | Conification construction for Kähler manifolds and its application in c-projective geometry. Advances in Mathematics, 2015, 274, 1-38. | 1.1 | 11 |
| 34 | There exist no locally symmetric Finsler spaces of positive or negative flag curvature. Comptes Rendus Mathematique, 2015, 353, 81-83. | 0.3 | 2 |
| 35 | Smoothing 3-dimensional polyhedral spaces. Electronic Research Announcements in Mathematical Sciences, 2015, 22, 12-19. | 0.6 | 3 |
| 36 | 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 |

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|---|---------|-----|-----------|
| 37 | Local normal forms for geodesically equivalent pseudo-Riemannian metrics. Transactions of the American Mathematical Society, 2014, 367, 6719-6749. | 0.9 | 22 |
| 38 | There exist no 4-dimensional geodesically equivalent metrics with the same stress–energy tensor. Journal of Geometry and Physics, 2014, 78, 1-11. | 1.4 | 25 |
| 39 | Submaximal metric projective and metric affine structures. Differential Geometry and Its Applications, 2014, 33, 70-80. | 0.5 | 6 |
| 40 | A Criterion for Compatibility of Conformal and Projective Structures. Communications in Mathematical Physics, 2014, 329, 821-825. | 2.2 | 14 |
| 41 | Some remarks on Nijenhuis brackets, formality, and Kähler manifolds. Advances in Geometry, 2013, 13, 571-581. | 0.4 | 3 |
| 42 | TWO REMARKS ON PQÎµ-PROJECTIVITY OF RIEMANNIAN METRICS. Glasgow Mathematical Journal, 2013, 55, 131-138. | 0.3 | 3 |
| 43 | The only Kähler manifold with degree of mobility at least 3 is (â„<i>P</i> (<i>n</i> ), <sub> <i>É¡</i></sub> ) Tj ETQq1 1 0.784314 rgBT /Ove | 1.3 | 23 |
| 44 | Nonexistence of an integral of the 6th degree in momenta for the Zipoy-Voorhees metric. Physical Review D, 2012, 85, . | 4.7 | 14 |
| 45 | ON PROJECTIVE EQUIVALENCE AND POINTWISE PROJECTIVE RELATION OF RANDERS METRICS. International Journal of Mathematics, 2012, 23, 1250093. | 0.5 | 8 |
| 46 | 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 |
| 47 | The Binet–Legendre Metric in Finsler Geometry. Geometry and Topology, 2012, 16, 2135-2170. | 1.3 | 38 |
| 48 | Editors' preface for the topical issue "Finite dimensional integrable systems, dynamics, and Lie theoretic methods in Geometry and Mathematical Physics". Central European Journal of Mathematics, 2012, 10, 1593-1595. | 0.7 | 0 |
| 49 | On Integrable Natural Hamiltonian Systems on the Suspensions of Toric Automorphism. Qualitative Theory of Dynamical Systems, 2012, 11, 443-447. | 1.7 | 0 |
| 50 | Geodesically equivalent metrics in general relativity. Journal of Geometry and Physics, 2012, 62, 675-691. | 1.4 | 32 |
| 51 | Two-dimensional metrics admitting precisely one projective vector field. Mathematische Annalen, 2012, 352, 865-909. | 1.4 | 18 |
| 52 | Can We Make a Finsler Metric Complete by a Trivial Projective Change?. Springer Proceedings in Mathematics and Statistics, 2012, , 231-242. | 0.2 | 4 |
| 53 | Proof of the Yano-Obata conjecture for $h$-projective transformations. Journal of Differential Geometry, 2012, 92, . | 1.1 | 14 |
| 54 | 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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|---|---------|----|-----------|
| 55 | Two-dimensional superintegrable metrics with one linear and one cubic integral. Journal of Geometry and Physics, 2011, 61, 1353-1377. | 1.4 | 34 |
| 56 | Splitting and gluing lemmas for geodesically equivalent pseudo-Riemannian metrics. Transactions of the American Mathematical Society, 2011, 363, 4081-4081. | 0.9 | 23 |
| 57 | 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 |
| 58 | Differential invariants for cubic integrals of geodesic flows on surfaces. Journal of Geometry and Physics, 2010, 60, 833-856. | 1.4 | 8 |
| 59 | Gallotâ€"Tanno theorem for closed incomplete pseudo-Riemannian manifolds and applications. Annals of Global Analysis and Geometry, 2010, 38, 259-271. | 0.6 | 25 |
| 60 | Compatibility of GauÃŸ maps with metrics. Differential Geometry and Its Applications, 2010, 28, 228-235. | 0.5 | 6 |
| 61 | 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 |
| 62 | On the degree of geodesic mobility for Riemannian metrics. Mathematical Notes, 2010, 87, 586-587. | 0.4 | 21 |
| 63 | A Fubini theorem for pseudo-Riemannian geodesically equivalent metrics. Journal of the London Mathematical Society, 2009, 80, 341-356. | 1.0 | 23 |
| 64 | 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 |
| 65 | Complete Einstein Metrics are Geodesically Rigid. Communications in Mathematical Physics, 2009, 289, 383-400. | 2.2 | 37 |
| 66 | There are no conformal Einstein rescalings of complete pseudo-Riemannian Einstein metrics. Comptes Rendus Mathematique, 2009, 347, 1067-1069. | 0.3 | 23 |
| 67 | Finsler Conformal Lichnerowicz-Obata conjecture. Annales De L'Institut Fourier, 2009, 59, 937-949. | 0.6 | 23 |
| 68 | 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 |
| 69 | Metric Connections in Projective Differential Geometry. The IMA Volumes in Mathematics and Its Applications, 2008, , 339-350. | 0.5 | 38 |
| 70 | Proof of the projective Lichnerowicz-Obata conjecture. Journal of Differential Geometry, 2007, 75, . | 1.1 | 41 |
| 71 | Vanishing of the entropy pseudonorm for certain integrable systems. Electronic Research Announcements in Mathematical Sciences, 2006, 12, 19-28. | 0.7 | 5 |
| 72 | GEOMETRIC EXPLANATION OF THE BELTRAMI THEOREM. International Journal of Geometric Methods in Modern Physics, 2006, 03, 623-629. | 2.0 | 21 |

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| 73 | Strictly non-proportional geodesically equivalent metrics have h top ( g ) = 0. Ergodic Theory and Dynamical Systems, 2006, 26, 247. | 0.6 | 6 |
| 74 | On the rigidity of magnetic systems with the same magnetic geodesics. Proceedings of the American Mathematical Society, 2006, 134, 427-434. | 0.8 | 6 |
| 75 | The eigenvalues of the Sinyukov mapping for geodesically equivalent metrics are globally ordered. Mathematical Notes, 2005, 77, 380-390. | 0.4 | 5 |
| 76 | Lichnerowicz-Obata conjecture in dimension two. Commentarii Mathematici Helvetici, 2005, 80, 541-570. | 0.7 | 22 |
| 77 | CLOSED MANIFOLDS ADMITTING METRICS WITH THE SAME GEODESICS. , 2005, , . | | 4 |
| 78 | Die Vermutung von Obata fï¿½r Dimension 2. Archiv Der Mathematik, 2004, 82, 273-281. | 0.5 | 13 |
| 79 | Projectively equivalent metrics on the torus. Differential Geometry and Its Applications, 2004, 20, 251-265. | 0.5 | 11 |
| 80 | A new integrable system on the sphere. Mathematical Research Letters, 2004, 11, 715-722. | 0.5 | 30 |
| 81 | Geodesic Equivalence via Integrability. Geometriae Dedicata, 2003, 96, 91-115. | 0.3 | 50 |
| 82 | Hyperbolic manifolds are geodesically rigid. Inventiones Mathematicae, 2003, 151, 579-609. | 2.5 | 34 |
| 83 | Three-dimensional manifolds having metrics with the same geodesics. Topology, 2003, 42, 1371-1395. | 0.3 | 17 |
| 84 | Geometrical interpretation of Benenti systems. Journal of Geometry and Physics, 2003, 44, 489-506. | 1.4 | 58 |
| 85 | Three-manifolds admitting metrics with the same geodesics. Mathematical Research Letters, 2002, 9, 267-276. | 0.5 | 8 |
| 86 | Quantum integrability of Beltrami-Laplace operator as geodesic equivalence. Mathematische Zeitschrift, 2001, 238, 833-866. | 0.9 | 32 |
| 87 | Geschlossene hyperbolische 3-Mannigfaltigkeiten sind geodätisch starr. Manuscripta Mathematica, 2001, 105, 343-352. | 0.6 | 12 |
| 88 | Integrability in the theory of geodesically equivalent metrics. Journal of Physics A, 2001, 34, 2415-2433. | 1.6 | 13 |
| 89 | Metric with ergodic geodesic flow is completely determined by unparameterized geodesics. Electronic Research Announcements in Mathematical Sciences, 2000, 6, 98-104. | 0.7 | 12 |
| 90 | Commuting Operators and Separation of Variables for Laplacians of Projectively Equivalent Metrics. Letters in Mathematical Physics, 2000, 54, 193-201. | 1.1 | 0 |

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|---|---------|----|-----------|
| 91 | 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 |
| 92 | Singularities of momentum maps of integrable Hamiltonian systems with two degrees of freedom. Journal of Mathematical Sciences, 1999, 94, 1477-1500. | 0.4 | 4 |
| 93 | Two-dimensional Riemannian metrics with integrable geodesic flows. Local and global geometry. Sbornik Mathematics, 1998, 189, 1441-1466. | 0.6 | 50 |
| 94 | 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 |
| 95 | On degree of mobility for complete metrics. , 0, , . | | 7 |