Alexey V Bolsinov

List of Publications by Year
in descending order

59	1,157	393982	433756
papers	citations	19 h-index	31 g-index

61	61	61	198
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Topological classification of integrable Hamiltonian systems with two degrees of freedom. List of systems of small complexity. Russian Mathematical Surveys, 1990, 45, 59-94.	0.2	89
2	Integrable geodesic flows with positive topological entropy. Inventiones Mathematicae, 2000, 140, 639-650.	1.3	86
3	Geometrical interpretation of Benenti systems. Journal of Geometry and Physics, 2003, 44, 489-506.	0.7	58
4	Noncommutative Integrability, Moment Map and Geodesic Flows. Annals of Global Analysis and Geometry, 2003, 23, 305-322.	0.3	52
5	Topology and stability of integrable systems. Russian Mathematical Surveys, 2010, 65, 259-318.	0.2	52
6	The Maupertuis principle and geodesic flows on the sphere arising from integrable cases in the dynamics of a rigid body. Russian Mathematical Surveys, 1995, 50, 473-501.	0.2	50
7	Hamiltonization of non-holonomic systems in the neighborhood of invariant manifolds. Regular and Chaotic Dynamics, 2011, 16, 443-464.	0.3	45
8	COMPATIBLE POISSON BRACKETS ON LIE ALGEBRAS AND COMPLETENESS OF FAMILIES OF FUNCTIONS IN INVOLUTION. Mathematics of the USSR Izvestija, 1992, 38, 69-90.	0.2	42
9	Compatible Poisson Brackets on Lie Algebras. Mathematical Notes, 2002, 72, 10-30.	0.1	40
10	Commutative families of functions related to consistent Poisson brackets. Acta Applicandae Mathematicae, 1991, 24, 253-274.	0.5	38
11	Orbital classification of geodesic flows on two-dimensional ellipsoids. The Jacobi problem is orbitally equivalent to the integrable Euler case in rigid body dynamics. Functional Analysis and Its Applications, 1995, 29, 149-160.	0.1	31
12	Complete involutive algebras of functions on cotangent bundles of homogeneous spaces. Mathematische Zeitschrift, 2004, 246, 213-236.	0.4	27
13	Bi-Hamiltonian structures and singularities of integrable systems. Regular and Chaotic Dynamics, 2009, 14, 431-454.	0.3	26
14	ORBITAL EQUIVALENCE OF INTEGRABLE HAMILTONIAN SYSTEMS WITH TWO DEGREES OF FREEDOM. A CLASSIFICATION THEOREM. I. Sbornik Mathematics, 1995, 81, 421-465.	0.2	24
15	A Fubini theorem for pseudo-Riemannian geodesically equivalent metrics. Journal of the London Mathematical Society, 2009, 80, 341-356.	0.5	23
16	Splitting and gluing lemmas for geodesically equivalent pseudo-Riemannian metrics. Transactions of the American Mathematical Society, 2011, 363, 4081-4081.	0.5	23
17	Geometrisation of Chaplygin's reducing multiplier theorem. Nonlinearity, 2015, 28, 2307-2318.	0.6	23
18	Local normal forms for geodesically equivalent pseudo-Riemannian metrics. Transactions of the American Mathematical Society, 2014, 367, 6719-6749.	0.5	22

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19	Rolling of a ball without spinning on a plane: the absence of an invariant measure in a system with a complete set of integrals. Regular and Chaotic Dynamics, 2012, 17, 571-579.	0.3	20
20	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.	0.7	19
21	INTEGRABLE GEODESIC FLOWS ON RIEMANNIAN MANIFOLDS: CONSTRUCTION AND OBSTRUCTIONS. , 2004, , .		18
22	Bifurcation analysis and the Conley index in mechanics. Regular and Chaotic Dynamics, 2012, 17, 451-478.	0.3	18
23	JORDANâ€“KRONECKER INVARIANTS OF FINITE-DIMENSIONAL LIE ALGEBRAS. Transformation Groups, 2016, 21, 51-86.	0.4	18
24	Open problems, questions and challenges in finite- dimensional integrable systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170430.	1.6	18
25	Spectra of Sol-Manifolds: Arithmetic and Quantum Monodromy. Communications in Mathematical Physics, 2006, 264, 583-611.	1.0	17
26	Geodesics on the ellipsoid and monodromy. Journal of Geometry and Physics, 2007, 57, 2437-2454.	0.7	17
27	Magnetic geodesic flows on coadjoint orbits. Journal of Physics A, 2006, 39, L247-L252.	1.6	16
28	Singularities of Bi-Hamiltonian Systems. Communications in Mathematical Physics, 2014, 331, 507-543.	1.0	16
29	Magnetic flows on homogeneous spaces. Commentarii Mathematici Helvetici, 2008, 83, 679-700.	0.4	16
30	Nijenhuis geometry. Advances in Mathematics, 2022, 394, 108001.	0.5	14
31	A smooth trajectory classification of integrable Hamiltonian systems with two degrees of freedom. Sbornik Mathematics, 1995, 186, 1-27.	0.2	14
32	Integrable geodesic flows on homogeneous spaces. Sbornik Mathematics, 2001, 192, 951-968.	0.2	13
33	Topology and Bifurcations in Nonholonomic Mechanics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530028.	0.7	13
34	Integrable geodesic flows on the sphere, generated by Goryachev-Chaplygin and Kowalewski systems in the dynamics of a rigid body. Mathematical Notes, 1994, 56, 859-861.	0.1	12
35	Topology of energy surfaces and existence of transversal PoincarÃ© sections. Journal of Physics A, 1996, 29, 4977-4985.	1.6	12
36	Symplectic invariants for parabolic orbits and cusp singularities of integrable systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170424.	1.6	12

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37	Applications of Nijenhuis geometry II: maximal pencils of multi-Hamiltonian structures of hydrodynamic type. Nonlinearity, 2021, 34, 5136-5162.	0.6	12
38	Fomenko invariants in the theory of integrable Hamiltonian systems. Russian Mathematical Surveys, 1997, 52, 997-1015.	0.2	11
39	Finite-dimensional integrable systems: A collection of research problems. Journal of Geometry and Physics, 2017, 115, 2-15.	0.7	10
40	ORBITAL EQUIVALENCE OF INTEGRABLE HAMILTONIAN SYSTEMS WITH TWO DEGREES OF FREEDOM. A CLASSIFICATION THEOREM. II. Sbornik Mathematics, 1995, 82, 21-63.	0.2	9
41	Application of classification theory for integrable Hamiltonian systems to geodesic flows on 2-sphere and 2-torus and to the description of the topological structure of momentum mapping near singular points. Journal of Mathematical Sciences, 1996, 78, 542-555.	0.1	7
42	On an example of an integrable geodesic flow with positive topological entropy. Russian Mathematical Surveys, 1999, 54, 833-834.	0.2	7
43	Topological monodromy as an obstruction to Hamiltonization of nonholonomic systems: Pro or contra?. Journal of Geometry and Physics, 2015, 87, 61-75.	0.7	7
44	Geometry and Dynamics of Integrable Systems. Advanced Courses in Mathematics, CRM Barcelona, 2016, , .	0.3	7
45	Applications of Nijenhuis geometry: non-degenerate singular points of Poissonâ€“Nijenhuis structures. European Journal of Mathematics, 2022, 8, 1355-1376.	0.2	7
46	Complete commutative subalgebras in polynomial poisson algebras: A proof of the Mischenko-Fomenko conjecture. Theoretical and Applied Mechanics, 2016, 43, 145-168.	0.1	7
47	Smooth invariants of focus-focus singularities and obstructions to product decomposition. Journal of Symplectic Geometry, 2019, 17, 1613-1648.	0.3	7
48	Four-dimensional KÃhler metrics admitting c-projective vector fields. Journal Des Mathematiques Pures Et Appliquees, 2015, 103, 619-657.	0.8	6
49	A Note about Integrable Systems on Low-dimensional Lie Groups and Lie Algebras. Regular and Chaotic Dynamics, 2019, 24, 266-280.	0.3	6
50	Trajectory classification of integrable systems of Euler type in the dynamics of a rigid body. Russian Mathematical Surveys, 1993, 48, 165-166.	0.2	4
51	Orbital invariants of integrable Hamiltonian systems. The case of simple systems. Orbital classification of systems of Euler type in rigid body dynamics. Izvestiya Mathematics, 1995, 59, 63-100.	0.1	4
52	A formal Frobenius theorem and argument shift. Mathematical Notes, 2009, 86, 10-18.	0.1	3
53	Algebraic and geometric properties of quadratic Hamiltonians determined by sectional operators. Mathematical Notes, 2011, 90, 666-677.	0.1	3
54	Some remarks about Mishchenkoâ€“Fomenko subalgebras. Journal of Algebra, 2017, 483, 58-70.	0.4	2

#	Article	IF	Citations
55	Smooth trajectory classification of integrable Hamiltonian systems with two degrees of freedom. The case of systems with planar atoms. Russian Mathematical Surveys, 1994, 49, 181-182.	0.2	1
56	The classification of Hamiltonian systems on two-dimensional surfaces. Russian Mathematical Surveys, 1994, 49, 199-200.	0.2	1
57	Involutory families of functions on dual spaces of Lie algebras of type $ Gunderset{varphi}{+}V$. Russian Mathematical Surveys, 1987, 42, 227-228.	0.2	0
58	A criterion for the topological conjugacy of Hamiltonian flows on two-dimensional compact surfaces. Russian Mathematical Surveys, 1995, 50, 193-194.	0.2	0
59	Argument Shift Method and Sectional Operators: Applications to Differential Geometry. Journal of Mathematical Sciences, 2017, 225, 536-554.	0.1	0