

# Oleg I Mokhov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6877748/publications.pdf>

Version: 2024-02-01

57  
papers

631  
citations

567144

15  
h-index

677027

22  
g-index

61  
all docs

61  
docs citations

61  
times ranked

59  
citing authors

#	ARTICLE	IF	CITATIONS
1	Symplectic and Poisson structures on loop spaces of smooth manifolds, and integrable systems. Russian Mathematical Surveys, 1998, 53, 515-622.	0.2	54
2	Bi-Hamiltonian Structure in 2-d Field Theory. Communications in Mathematical Physics, 1997, 186, 649-669.	1.0	45
3	Hamiltonian systems of hydrodynamic type and constant curvature metrics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 166, 215-216.	0.9	42
4	Dubrovin-Novikov type Poisson brackets (DN-brackets). Functional Analysis and Its Applications, 1989, 22, 336-338.	0.1	34
5	Compatible poisson structures of hydrodynamic type and the equations of associativity in two-dimensional topological field theory. Reports on Mathematical Physics, 1999, 43, 247-256.	0.4	26
6	Bianchi transformation between the real hyperbolic Monge-Ampère equation and the Born-Infeld equation. Letters in Mathematical Physics, 1994, 32, 121-123.	0.5	25
7	The associativity equations in the two-dimensional topological field theory as integrable Hamiltonian nondiagonalizable systems of hydrodynamic type. Functional Analysis and Its Applications, 1996, 30, 195-203.	0.1	25
8	On commutative subalgebras of the Weyl algebra related to commuting operators of arbitrary rank and genus. Mathematical Notes, 2013, 94, 298-300.	0.1	22
9	Compatible and Almost Compatible Pseudo-Riemannian Metrics. Functional Analysis and Its Applications, 2001, 35, 100-110.	0.1	21
10	Hamiltonian differential operators and contact geometry. Functional Analysis and Its Applications, 1987, 21, 217-223.	0.1	19
11	The classification of nonsingular multidimensional Dubrovin-Novikov brackets. Functional Analysis and Its Applications, 2008, 42, 33-44.	0.1	18
12	Commuting ordinary differential operators of rank 3 corresponding to an elliptic curve. Russian Mathematical Surveys, 1982, 37, 129-130.	0.2	17
13	Compatible flat metrics. Journal of Applied Mathematics, 2002, 2, 337-370.	0.4	17
14	On compatible potential deformations of Frobenius algebras and associativity equations. Russian Mathematical Surveys, 1998, 53, 396-397.	0.2	16
15	On compatible Poisson structures of hydrodynamic type. Russian Mathematical Surveys, 1997, 52, 1310-1311.	0.2	15
16	Nonlocal Hamiltonian operators of hydrodynamic type with flat metrics, integrable hierarchies, and the associativity equations. Functional Analysis and Its Applications, 2006, 40, 11-23.	0.1	14
17	Hamiltonian pairs associated with skew-symmetric Killing tensors on spaces of constant curvature. Functional Analysis and Its Applications, 1994, 28, 123-125.	0.1	13
18	The Hamiltonian property of an evolutionary flow on the set of stationary points of its integral. Russian Mathematical Surveys, 1984, 39, 133-134.	0.2	12

#	ARTICLE	IF	CITATIONS
19	Compatible and almost compatible metrics. Russian Mathematical Surveys, 2000, 55, 819-821.	0.2	12
20	Integrability of the Equations for Nonsingular Pairs of Compatible Flat Metrics. Theoretical and Mathematical Physics(Russian Federation), 2002, 130, 198-212.	0.3	12
21	Local symplectic operators and structures related to them. Journal of Mathematical Physics, 1991, 32, 3288-3296.	0.5	11
22	Canonical Hamiltonian representation of the Krichever-Novikov equation. Mathematical Notes, 1991, 50, 939-945.	0.1	11
23	On a special class of compatible Poisson structures of hydrodynamic type. Physica D: Nonlinear Phenomena, 2001, 152-153, 475-490.	1.3	11
24	Flat pencils of metrics and integrable reductions of Lam $\check{A}$ 's equations. Russian Mathematical Surveys, 2001, 56, 416-418.	0.2	10
25	Vorticity equation of two-dimensional hydrodynamics of an incompressible fluid as canonical Hamiltonian system. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 139, 363-368.	0.9	9
26	Integrable bi-Hamiltonian systems of hydrodynamic type. Russian Mathematical Surveys, 2002, 57, 153-154.	0.2	8
27	Title is missing!. Functional Analysis and Its Applications, 2002, 36, 196-204.	0.1	8
28	Lax Pairs for Equations Describing Compatible Nonlocal Poisson Brackets of Hydrodynamic Type and Integrable Reductions of the Lam $\check{A}$ Equations. Theoretical and Mathematical Physics(Russian Federation) 107(1) 107-119	0.1	8
29	The Lax pair for non-singular pencils of metrics of constant Riemannian curvature. Russian Mathematical Surveys, 2002, 57, 603-605.	0.2	7
30	Title is missing!. Theoretical and Mathematical Physics(Russian Federation), 2003, 134, 140-140.	0.3	7
31	Theory of submanifolds, associativity equations in 2D topological quantum field theories, and Frobenius manifolds. Theoretical and Mathematical Physics(Russian Federation), 2007, 152, 1183-1190.	0.3	7
32	Title is missing!. Theoretical and Mathematical Physics(Russian Federation), 2002, 132, 942-954.	0.3	6
33	Title is missing!. Theoretical and Mathematical Physics(Russian Federation), 2002, 133, 1557-1564.	0.3	6
34	The Liouville Canonical Form for Compatible Nonlocal Poisson Brackets of Hydrodynamic Type and Integrable Hierarchies. Functional Analysis and Its Applications, 2003, 37, 103-113.	0.1	6
35	Riemann invariants of semisimple non-locally bi-Hamiltonian systems of hydrodynamic type and compatible metrics. Russian Mathematical Surveys, 2010, 65, 1183-1185.	0.2	6
36	Canonical variables for the two-dimensional hydrodynamics of an incompressible fluid with vorticity. Theoretical and Mathematical Physics(Russian Federation), 1989, 78, 97-99.	0.3	5

#	ARTICLE	IF	CITATIONS
37	Symplectic forms on the space of loops and Riemannian geometry. Functional Analysis and Its Applications, 1991, 24, 247-249.	0.1	4
38	Integrable bi-Hamiltonian hierarchies generated by compatible metrics of constant Riemannian curvature. Russian Mathematical Surveys, 2002, 57, 999-1001.	0.2	4
39	Compatible metrics and the diagonalizability of nonlocally bi-Hamiltonian systems of hydrodynamic type. Theoretical and Mathematical Physics(Russian Federation), 2011, 167, 403-420.	0.3	4
40	Lax pairs for compatible non-local Hamiltonian operators of hydrodynamic type. Russian Mathematical Surveys, 2002, 57, 1234-1235.	0.2	3
41	Title is missing!. Theoretical and Mathematical Physics(Russian Federation), 2003, 136, 908-916.	0.3	3
42	Non-local Hamiltonian operators of hydrodynamic type with flat metrics, and the associativity equations. Russian Mathematical Surveys, 2004, 59, 191-192.	0.2	3
43	On Metrics of Diagonal Curvature. Journal of Mathematical Sciences, 2020, 248, 780-787.	0.1	3
44	On Algebraic-Geometric Methods for Constructing Submanifolds with Flat Normal Bundle and Holonomic Net of Curvature Lines. Functional Analysis and Its Applications, 2020, 54, 169-178.	0.1	3
45	Compatible Dubrovin-Novikov Hamiltonian operators and the Lie derivative. Russian Mathematical Surveys, 2001, 56, 1175-1176.	0.2	2
46	The classification of multidimensional Poisson brackets of hydrodynamic type. Russian Mathematical Surveys, 2006, 61, 356-358.	0.2	2
47	Systems of integrals in involution and the associativity equations. Russian Mathematical Surveys, 2006, 61, 568-570.	0.2	2
48	On consistency of determinants on cubic lattices. Russian Mathematical Surveys, 2008, 63, 1146-1148.	0.2	2
49	Realization of Frobenius manifolds as submanifolds in pseudo-Euclidean spaces. Proceedings of the Steklov Institute of Mathematics, 2009, 267, 217-234.	0.1	2
50	Homogeneous symplectic structures of second order on loop spaces and symplectic connections. Functional Analysis and Its Applications, 1991, 25, 136-137.	0.1	1
51	Complex homogeneous forms on loop spaces of smooth manifolds and their cohomology groups. Russian Mathematical Surveys, 1996, 51, 341-342.	0.2	1
52	On the cohomology groups of complexes of homogeneous forms on loop spaces of smooth manifolds. Functional Analysis and Its Applications, 1998, 32, 162-171.	0.1	1
53	Duality in a special class of submanifolds and Frobenius manifolds. Russian Mathematical Surveys, 2008, 63, 378-380.	0.2	1
54	Consistency on cubic lattices for determinants of arbitrary orders. Proceedings of the Steklov Institute of Mathematics, 2009, 266, 195-209.	0.1	1

#	ARTICLE	IF	CITATIONS
55	About statistics of the extreme values and the rank form of scientometric distributions. <i>Scientometrics</i> , 1989, 15, 87-96.	1.6	0
56	Deformations of Poisson structures by closed 3-forms. <i>Mathematical Notes</i> , 2011, 89, 899-902.	0.1	0
57	On Initial Data in the Problem of Consistency on Cubic Lattices for $3\tilde{A}-3$ Determinants. <i>Symmetry, Integrability and Geometry: Methods and Applications (SIGMA)</i> , 2011, , .	0.5	0