

Michael Bialy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1228745/publications.pdf>

Version: 2024-02-01

29
papers

341
citations

840776

11
h-index

888059

17
g-index

29
all docs

29
docs citations

29
times ranked

58
citing authors

#	ARTICLE	IF	CITATIONS
1	Convex billiards and a theorem by E. Hopf. <i>Mathematische Zeitschrift</i> , 1993, 214, 147-154.	0.9	56
2	Angular billiard and algebraic Birkhoff conjecture. <i>Advances in Mathematics</i> , 2017, 313, 102-126.	1.1	34
3	Hamiltonian systems, Lagrangian tori and Birkhoff's theorem. <i>Mathematische Annalen</i> , 1992, 292, 619-627.	1.4	30
4	Rich quasi-linear system for integrable geodesic flows on 2-torus. <i>Discrete and Continuous Dynamical Systems</i> , 2011, 29, 81-90.	0.9	22
5	Cubic and quartic integrals for geodesic flow on 2-torus via a system of the hydrodynamic type. <i>Nonlinearity</i> , 2011, 24, 3541-3554.	1.4	20
6	Dan Reznik's identities and more. <i>European Journal of Mathematics</i> , 2022, 8, 1341-1354.	0.5	19
7	Algebraic non-integrability of magnetic billiards. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 455101.	2.1	16
8	Algebraic Birkhoff conjecture for billiards on Sphere and Hyperbolic plane. <i>Journal of Geometry and Physics</i> , 2017, 115, 150-156.	1.4	15
9	Hopf rigidity for convex billiards on the hemisphere and hyperbolic plane. <i>Discrete and Continuous Dynamical Systems</i> , 2013, 33, 3903-3913.	0.9	15
10	Integrable geodesic flows on 2-torus: Formal solutions and variational principle. <i>Journal of Geometry and Physics</i> , 2015, 87, 39-47.	1.4	13
11	Maximizing orbits for higher-dimensional convex billiards. <i>Journal of Modern Dynamics</i> , 2009, 3, 51-59.	0.5	11
12	Hopf-type rigidity for Newton equations. <i>Mathematical Research Letters</i> , 1995, 2, 695-700.	0.5	11
13	On Periodic solutions for a reduction of Benney chain. <i>Nonlinear Differential Equations and Applications</i> , 2009, 16, 731-743.	0.8	10
14	Integrable Geodesic Flows on Surfaces. <i>Geometric and Functional Analysis</i> , 2010, 20, 357-367.	1.8	9
15	Wire billiards, the first steps. <i>Advances in Mathematics</i> , 2020, 368, 107154.	1.1	9
16	Gutkin billiard tables in higher dimensions and rigidity. <i>Nonlinearity</i> , 2018, 31, 2281-2293.	1.4	8
17	On the number of caustics for invariant tori of Hamiltonian systems with two degrees of freedom. <i>Ergodic Theory and Dynamical Systems</i> , 1991, 11, 273-278.	0.6	7
18	A survey on polynomial in momenta integrals for billiard problems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170418.	3.4	7

#	ARTICLE	IF	CITATIONS
19	Nonsmooth convex caustics for Birkhoff billiards. Pacific Journal of Mathematics, 2018, 295, 257-269.	0.5	7
20	New semi-Hamiltonian hierarchy related to integrable magnetic flows on surfaces. Central European Journal of Mathematics, 2012, 10, 1596-1604.	0.7	6
21	Magnetic billiards: Non-integrability for strong magnetic field; Gutkin type examples. Journal of Geometry and Physics, 2020, 154, 103716.	1.4	5
22	Hamiltonian form and infinitely many conservation laws for a quasilinear system. Nonlinearity, 1997, 10, 925-930.	1.4	3
23	From polynomial integrals of Hamiltonian flows to a model of non-linear elasticity. Journal of Differential Equations, 2013, 255, 3434-3446.	2.2	2
24	Outer Billiards with the Dynamics of a Standard Shift on a Finite Number of Invariant Curves. Experimental Mathematics, 2019, , 1-6.	0.7	2
25	Billiard characterization of spheres. Mathematische Annalen, 2019, 374, 1353-1370.	1.4	2
26	Smooth solutions for a p-system of mixed elliptic-hyperbolic type. Israel Journal of Mathematics, 2013, 197, 189-198.	0.8	1
27	Richness or semi-Hamiltonicity of quasi-linear systems that are not in evolution form. Quarterly of Applied Mathematics, 2013, 71, 787-796.	0.7	1
28	On Newton equations which are totally integrable at infinity. Calculus of Variations and Partial Differential Equations, 2016, 55, 1.	1.7	0
29	In search of periodic solutions for a reduction of the Benney chain. Journal of Mathematical Physics, 2017, 58, 112701.	1.1	0