

Maria Przybylska

List of Publications by Year in descending order

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77
papers

817
citations

516561

16
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610775

24
g-index

79
all docs

79
docs citations

79
times ranked

299
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrability of the generalised Hill problem. <i>Nonlinear Dynamics</i> , 2022, 107, 1989-2002.	2.7	2
2	Non-integrability of a model of elastic dumbbell satellite. <i>Nonlinear Dynamics</i> , 2021, 106, 125-146.	2.7	1
3	Dynamics of dipole in a stationary non-homogeneous electromagnetic field. <i>Scientific Reports</i> , 2021, 11, 17756.	1.6	0
4	Non-integrability of generalised Charlier and Saint-Germain problem. <i>Applied Mathematics and Computation</i> , 2020, 365, 124720.	1.4	1
5	Bi-homogeneity and integrability of rational potentials. <i>Journal of Differential Equations</i> , 2020, 268, 7012-7028.	1.1	3
6	Comment on "Hyperchaos in constrained Hamiltonian system and its control" by J. Li, H. Wu and F. Mei. <i>Nonlinear Dynamics</i> , 2020, 101, 639-654.	2.7	3
7	On Dynamics of Jellett's Egg. <i>Asymptotic Solutions Revisited. Regular and Chaotic Dynamics</i> , 2020, 25, 40-58.	0.3	5
8	Integrability Analysis of the Stretch-Twist-Fold Flow. <i>Journal of Nonlinear Science</i> , 2020, 30, 1607-1649.	1.0	13
9	Differential Galois integrability obstructions for nonlinear three-dimensional differential systems. <i>Chaos</i> , 2020, 30, 013135.	1.0	7
10	Electromagnetic trap for polar particles. <i>New Journal of Physics</i> , 2020, 22, 103047.	1.2	4
11	Dynamics of a dipole in a stationary electromagnetic field. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190230.	1.0	2
12	Dynamics of constrained many body problems in constant curvature two-dimensional manifolds. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170425.	1.6	1
13	Note on integrability of certain homogeneous Hamiltonian systems in 2D constant curvature spaces. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 725-732.	0.9	8
14	Relativistic quantum mechanics of a spin-1/2 charge in a Penning trap. <i>International Journal of Mass Spectrometry</i> , 2017, 422, 13-26.	0.7	1
15	Probing the Eigenstates Thermalization Hypothesis with Many-Particle Quantum Walks on Lattices. <i>Open Systems and Information Dynamics</i> , 2017, 24, 1750007.	0.5	0
16	Anisotropic Kepler and anisotropic two fixed centres problems. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2017, 127, 163-184.	0.5	7
17	Understanding reversals of a rattleback. <i>Regular and Chaotic Dynamics</i> , 2017, 22, 368-385.	0.3	8
18	Global Properties of Kovalevskaya Exponents. <i>Regular and Chaotic Dynamics</i> , 2017, 22, 840-850.	0.3	2

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19	Thermalization in Many-Particle Quantum Walks. Open Systems and Information Dynamics, 2016, 23, 1650002.	0.5	2
20	Penning trap with an inclined magnetic field. Chaos, 2016, 26, 083118.	1.0	2
21	Dynamics of a rolling and sliding disk in a plane. Asymptotic solutions, stability and numerical simulations. Regular and Chaotic Dynamics, 2016, 21, 204-231.	0.3	6
22	Dynamics of multibody chains in circular orbit: non-integrability of equations of motion. Celestial Mechanics and Dynamical Astronomy, 2016, 126, 297-311.	0.5	1
23	Integrability of Hamiltonian systems with algebraic potentials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 76-82.	0.9	13
24	Dynamics of a relativistic charge in the Penning trap. Chaos, 2015, 25, 053102.	1.0	7
25	Comment on "Solvability of the two-photon Rabi Hamiltonian". Physical Review A, 2015, 91, .	1.0	26
26	An exactly solvable system from quantum optics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1503-1509.	0.9	19
27	Note on integrability of certain homogeneous Hamiltonian systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2970-2976.	0.9	20
28	Full spectrum of the Rabi model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 16-20.	0.9	49
29	Analytical method of spectra calculations in the Bargmann representation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3445-3451.	0.9	41
30	The inhomogeneous Suslov problem. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2389-2394.	0.9	16
31	On integrable rational potentials of the Dirac equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 833-841.	0.9	2
32	The generalized Euler-Poinsot rigid body equations: explicit elliptic solutions. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 415201.	0.7	5
33	Non-integrability of the dumbbell and point mass problem. Celestial Mechanics and Dynamical Astronomy, 2013, 117, 315-330.	0.5	11
34	Non-integrability of flail triple pendulum. Chaos, Solitons and Fractals, 2013, 53, 60-74.	2.5	13
35	Darboux points and integrability analysis of Hamiltonian systems with homogeneous rational potentials. Physica D: Nonlinear Phenomena, 2013, 249, 1-15.	1.3	5
36	Nonexistence of the final first integral in the Zipoy-Voorhees space-time. Physical Review D, 2013, 88, .	1.6	11

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37	Integrable variational equations of non-integrable systems. Regular and Chaotic Dynamics, 2012, 17, 337-358.	0.3	1
38	Necessary conditions for the existence of additional first integrals for Hamiltonian systems with homogeneous potential. Nonlinearity, 2012, 25, 255-277.	0.6	7
39	Integrable deformations of integrable Hamiltonian systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 376, 80-93.	0.9	2
40	Non-integrability of the three-body problem. Celestial Mechanics and Dynamical Astronomy, 2011, 110, 17-30.	0.5	17
41	On algebraic construction of certain integrable and super-integrable systems. Physica D: Nonlinear Phenomena, 2011, 240, 1426-1448.	1.3	21
42	Necessary conditions for classical super-integrability of a certain family of potentials in constant curvature spaces. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 382001.	0.7	27
43	Partial integrability of Hamiltonian systems with homogeneous potential. Regular and Chaotic Dynamics, 2010, 15, 551-563.	0.3	7
44	Integrability of Hamiltonian systems with homogeneous potentials of degree zero. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 448-452.	0.9	12
45	Partial integrability of hamiltonian systems with homogeneous potential. Regular and Chaotic Dynamics, 2010, 15, 551.	0.3	1
46	The Poisson equations in the nonholonomic Suslov problem: integrability, meromorphic and hypergeometric solutions. Nonlinearity, 2009, 22, 2231-2259.	0.6	23
47	DIFFERENTIAL GALOIS THEORY AND INTEGRABILITY. International Journal of Geometric Methods in Modern Physics, 2009, 06, 1357-1390.	0.8	13
48	Darboux points and integrability of homogeneous Hamiltonian systems with three and more degrees of freedom. Regular and Chaotic Dynamics, 2009, 14, 263-311.	0.3	11
49	Darboux points and integrability of homogeneous Hamiltonian systems with three and more degrees of freedom. Nongeneric cases. Regular and Chaotic Dynamics, 2009, 14, 349-388.	0.3	7
50	The Poisson Equations in the Nonholonomic Suslov Problem: Integrability, Meromorphic and Hypergeometric Solutions. , 2009, , .		0
51	Differential Galois obstructions for non-commutative integrability. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5431-5435.	0.9	2
52	Necessary conditions for super-integrability of Hamiltonian systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5581-5587.	0.9	14
53	Global integrability of cosmological scalar fields. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 465101.	0.7	31
54	Differential Galois obstructions for integrability of homogeneous Newton equations. Journal of Mathematical Physics, 2008, 49, 022701.	0.5	9

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55	Finiteness of integrable n-dimensional homogeneous polynomial potentials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 369, 180-187.	0.9	8
56	Non-integrability of Grossâ€™Neveu systems. Physica D: Nonlinear Phenomena, 2005, 201, 249-267.	1.3	7
57	New integrable Hamiltonian system with first integral quartic in momenta. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 343, 171-173.	0.9	12
58	Darboux points and integrability of Hamiltonian systems with homogeneous polynomial potential. Journal of Mathematical Physics, 2005, 46, 062901.	0.5	46
59	Title is missing!. Regular and Chaotic Dynamics, 2005, 10, 437.	0.3	5
60	Differential Galois approach to the non-integrability of the heavy top problem. Annales De La FacultÃ© Des Sciences De Toulouse, 2005, 14, 123-160.	0.3	13
61	Non-integrability of the generalized spring-pendulum problem. Journal of Physics A, 2004, 37, 2579-2597.	1.6	19
62	Nonintegrability of the Suslov problem. Journal of Mathematical Physics, 2004, 45, 1065-1078.	0.5	15
63	Non-Integrability of the Generalized Two Fixed Centres Problem. Celestial Mechanics and Dynamical Astronomy, 2004, 89, 145-164.	0.5	19
64	Darboux polynomials and first integrals of natural polynomial Hamiltonian systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 326, 219-226.	0.9	23
65	All meromorphically integrable 2D Hamiltonian systems with homogeneous potential of degree 3. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 327, 461-473.	0.9	43
66	Non-Integrability of the Problem of a Rigid Satellite in Gravitational and Magnetic Fields. Celestial Mechanics and Dynamical Astronomy, 2003, 87, 317-351.	0.5	19
67	Isospectral-like flows and eigenvalue problem. Future Generation Computer Systems, 2003, 19, 1165-1175.	4.9	2
68	Title is missing!. Regular and Chaotic Dynamics, 2003, 8, 413.	0.3	11
69	On matrix differential equations and abstract FG algorithm. Linear Algebra and Its Applications, 2002, 346, 155-175.	0.4	3
70	Non-integrability of ABC flow. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 303, 265-272.	0.9	28
71	Title is missing!. Regular and Chaotic Dynamics, 2002, 7, 73.	0.3	13
72	Studies of the Hoyer system. Reports on Mathematical Physics, 2001, 48, 131-138.	0.4	2

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73	Additive generalizations of the lax equation. Reports on Mathematical Physics, 2001, 48, 425-440.	0.4	0
74	A generalization of the Lax equation. Journal of Geometry and Physics, 2001, 38, 217-252.	0.7	3
75	Controllability of Matrix Differential Equations Related to Lie Algebra Actions. Open Systems and Information Dynamics, 2001, 08, 115-123.	0.5	0
76	A generalization of the Lax equation defined by an arbitrary anti-automorphism. Journal of Physics A, 1999, 32, 3155-3167.	1.6	3
77	Overview of the differential Galois integrability conditions for non-homogeneous potentials. Banach Center Publications, 0, 94, 221-232.	0.1	1