John A G Roberts

List of Publications by Year
in descending order

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44 papers	1,762 citations	471509 17 h-index	276875 41 g-index
44 all docs	44 docs citations	44 times ranked	514 citing authors

#	Article	IF	Citations
1	Time-reversal symmetry in dynamical systems: A survey. Physica D: Nonlinear Phenomena, 1998, 112, 1-39.	2.8	364
2	Integrable mappings and soliton equations II. Physica D: Nonlinear Phenomena, 1989, 34, 183-192.	2.8	311
3	Chaos and time-reversal symmetry. Order and chaos in reversible dynamical systems. Physics Reports, 1992, 216, 63-177.	25.6	242
4	Integrable mappings and soliton equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 126, 419-421.	2.1	233
5	Trace maps as 3D reversible dynamical systems with an invariant. Journal of Statistical Physics, 1994, 74, 829-888.	1.2	52
6	Integrable mappings of the plane preserving biquadratic invariant curves. Journal of Physics A, 2001, 34, 6617-6636.	1.6	45
7	Reversing symmetry group of and matrices with connections to cat maps and trace maps. Journal of Physics A, 1997, 30, 1549-1573.	1.6	40
8	Conservative and dissipative behaviour in reversible dynamical systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 135, 337-342.	2.1	36
9	Reversible mappings of the plane. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 132, 161-163.	2.1	33
10	Integrable mappings of the plane preserving biquadratic invariant curves II. Nonlinearity, 2002, 15, 459-489.	1.4	31
11	Escaping orbits in trace maps. Physica A: Statistical Mechanics and Its Applications, 1996, 228, 295-325.	2.6	30
12	Arithmetical Method to Detect Integrability in Maps. Physical Review Letters, 2003, 90, 034102.	7.8	29
13	Duality for discrete integrable systems. Journal of Physics A, 2005, 38, 3965-3980.	1.6	25
14	An algebraic geometric approach to integrable maps of the plane. Journal of Physics A, 2006, 39, 1133-1149.	1.6	25
15	Area preserving mappings that are not reversible. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 162, 243-248.	2.1	24
16	Conditions for local (reversing) symmetries in dynamical systems. Physica A: Statistical Mechanics and Its Applications, 1993, 197, 379-422.	2.6	19
17	Dynamics of the classical Heisenberg spin chain. Journal of Physics A, 1988, 21, 1769-1780.	1.6	17
18	Interchanging parameters and integrals in dynamical systems: the mapping case. Journal of Physics A, 2002, 35, 2309-2325.	1.6	17

#	Article	IF	Citations
19	Signature of time-reversal symmetry in polynomial automorphisms over finite fields. Nonlinearity, 2005, 18, 2171-2192.	1.4	17
20	Creating and relating three-dimensional integrable maps. Journal of Physics A, 2006, 39, L605-L615.	1.6	14
21	Algebraic entropy of (integrable) lattice equations and their reductions. Nonlinearity, 2019, 32, 622-653.	1.4	14
22	Reversing and extended symmetries of shift spaces. Discrete and Continuous Dynamical Systems, 2018, 38, 835-866.	0.9	13
23	Self-similarity of period-doubling branching in 3-D reversible mappings. Physica D: Nonlinear Phenomena, 1995, 82, 317-332.	2.8	12
24	Symmetries and reversing symmetries of toral automorphisms. Nonlinearity, 2001, 14, R1-R24.	1.4	12
25	Complexity of regular invertiblep-adic motions. Chaos, 2001, 11, 849-857.	2.5	12
26	Periodic orbits of linear endomorphisms on the 2-torus and its lattices. Nonlinearity, 2008, 21, 2427-2446.	1.4	11
27	The structure of reversing symmetry groups. Bulletin of the Australian Mathematical Society, 2006, 73, 445-459.	0.5	10
28	Symmetries and reversing symmetries of polynomial automorphisms of the plane. Nonlinearity, 2005, 18, 791-816.	1.4	9
29	A combinatorial model for reversible rational maps over finite fields. Nonlinearity, 2009, 22, 1965-1982.	1.4	9
30	Birational maps that send biquadratic curves to biquadratic curves. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 08FT02.	2.1	9
31	Characterization of Hamiltonian symmetries and their first integrals. International Journal of Non-Linear Mechanics, 2015, 74, 84-91.	2.6	8
32	Symmetries and reversing symmetries of area-preserving polynomial mappings in generalised standard form. Physica A: Statistical Mechanics and Its Applications, 2003, 317, 95-112.	2.6	7
33	Characterizing singular curves in parametrized families of biquadratics. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 115203.	2.1	7
34	The Dynamics of Trace Maps. NATO ASI Series Series B: Physics, 1994, , 275-285.	0.2	7
35	Distribution of periodic orbits for the Casatiâ€“Prosen map on rational lattices. Physica D: Nonlinear Phenomena, 2012, 241, 360-371.	2.8	3
36	Orbit structure and (reversing) symmetries of toral endomorphisms on rational lattices. Discrete and Continuous Dynamical Systems, 2013, 33, 527-553.	0.9	3

#	Article	IF	Citations
37	Integrable mappings of the plane preserving biquadratic invariant curves III. Physica A: Statistical Mechanics and Its Applications, 2003, 326, 400-411.	2.6	2
38	Signatures over finite fields of growth properties for lattice equations. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 085201.	2.1	2
39	Arithmetic exponents in piecewise-affine planar maps. Physica D: Nonlinear Phenomena, 2015, 298-299, 1-12.	2.8	2
40	Poisson structures for difference equations. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 475201.	2.1	2
41	Critical curves of a piecewise linear map. Chaos, 2021, 31, 073134.	2.5	2
42	Some Characterisations of Low-dimensional Dynamical Systems with Time-reversal Symmetry. , 1997, , 106-133.		2
43	Publisherâ€™s Note: Arithmetical Method to Detect Integrability in Maps [Phys. Rev. Lett.PRLTAO0031-900790, 034102 (2003)]. Physical Review Letters, 2003, 90, .	7.8	0
44	Linear degree growth in lattice equations. Journal of Computational Dynamics, 2019, 6, 449-467.	1.1	0