Konstantinos Efstathiou

List of Publications by Year
in descending order

39	584	623734	642732
papers	citations	14 h-index	23 g-index

41	41	41	246
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Loops of Infinite Order and Toric Foliations. Regular and Chaotic Dynamics, 2022, 27, 320-332.	0.8	0
2	Recent advances in the monodromy theory of integrable Hamiltonian systems. Indagationes Mathematicae, 2021, 32, 193-223.	0.4	2
3	Persistent homology of the cosmic web â€“ I. Hierarchical topology in Î›CDM cosmologies. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2968-2990.	4.4	14
4	Synchronized clusters in globally connected networks of second-order oscillators: Uncovering the role of inertia. Chaos, 2021, 31, 093137.	2.5	2
5	Hamiltonian Monodromy and Morse Theory. Communications in Mathematical Physics, 2020, 375, 1373-1392.	2.2	3
6	Reduction of oscillator dynamics on complex networks to dynamics on complete graphs through virtual frequencies. Physical Review E, 2020, 101, 022302.	2.1	5
7	Bifurcations and monodromy of the axially symmetric 1:1:â^’2Âresonance. Journal of Geometry and Physics, 2019, 146, 103493.	1.4	1
8	Scattering invariants in Eulerâ€™s two-center problem. Nonlinearity, 2019, 32, 1296-1326.	1.4	5
9	A Lagrangian fibration of the isotropic 3-dimensional harmonic oscillator with monodromy. Journal of Mathematical Physics, 2019, 60, .	1.1	2
10	A Study of the Effect of Doughnut Chart Parameters on Proportion Estimation Accuracy. Computer Graphics Forum, 2018, 37, 300-312.	3.0	9
11	Self-consistent method and steady states of second-order oscillators. Physical Review E, 2018, 98, .	2.1	11
12	Isochronous dynamics in pulse coupled oscillator networks with delay. Chaos, 2017, 27, 053103.	2.5	3
13	Rotation forms and local Hamiltonian monodromy. Journal of Mathematical Physics, 2017, 58, .	1.1	5
14	Monodromy of Hamiltonian systems with complexity 1 torus actions. Journal of Geometry and Physics, 2017, 115, 104-115.	1.4	7
15	Parallel Transport Along Seifert Manifolds and Fractional Monodromy. Communications in Mathematical Physics, 2017, 356, 427-449.	2.2	4
16	CAST: Effective and Efficient User Interaction for Context-Aware Selection in 3D Particle Clouds. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 886-895.	4.4	40
17	The Boundary-Hopf-Fold Bifurcation in Filippov Systems. SIAM Journal on Applied Dynamical Systems, 2015, 14, 914-941.	1.6	7
18	Uncovering Fractional Monodromy. Communications in Mathematical Physics, 2013, 324, 549-588.	2.2	8

#	Article	IF	Citations
19	The topology associated with cusp singular points. Nonlinearity, 2012, 25, 3409-3422.	1.4	10
20	Efficient Structure-Aware Selection Techniques for 3D Point Cloud Visualizations with 2DOF Input. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2245-2254.	4.4	47
21	Pacer cell response to periodic Zeitgebers. Physica D: Nonlinear Phenomena, 2011, 240, 1516-1527.	2.8	5
22	Fractional Bidromy in the Vibrational Spectrum of HOCl. Physical Review Letters, 2010, 104, 113002.	7.8	14
23	Integrable Hamiltonian systems with swallowtails. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 085216.	2.1	9
24	Normalization and global analysis of perturbations of the hydrogen atom. Reviews of Modern Physics, 2010, 82, 2099-2154.	45.6	31
25	A geometric fractional monodromy theorem. Discrete and Continuous Dynamical Systems - Series S, 2010, 3, 517-532.	1.1	6
26	Complete classification of qualitatively different perturbations of the hydrogen atom in weak near-orthogonal electric and magnetic fields. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 055209.	2.1	7
27	Heteroclinic cycles between unstable attractors. Nonlinearity, 2008, 21, 1385-1410.	1.4	22
28	Robustness of unstable attractors in arbitrarily sized pulse-coupled networks with delay. Nonlinearity, 2008, 21, 13-49.	1.4	24
29	Most Typical1â^¶2Resonant Perturbation of the Hydrogen Atom by Weak Electric and Magnetic Fields. Physical Review Letters, 2008, 101, 253003.	7.8	20
30	Classification of perturbations of the hydrogen atom by small static electric and magnetic fields. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 1771-1790.	2.1	22
31	Fractional monodromy in the <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www... Advances in M	1.1	27
32	Perturbations of the 1Â:Â1Â:Â1 resonance with tetrahedral symmetry: a three degree of freedom analogue of the two degree of freedom HÃ©nonâ€“Heiles Hamiltonian. Nonlinearity, 2004, 17, 415-446.	1.4	19
33	Escapes and Recurrence in a Simple Hamiltonian System. Celestial Mechanics and Dynamical Astronomy, 2004, 88, 163-183.	1.4	19
34	Hamiltonian Hopf bifurcation of the hydrogen atom in crossed fields. Physica D: Nonlinear Phenomena, 2004, 194, 250-274.	2.8	32
35	Global bending quantum number and the absence of monodromy in theHCNâ†”CNHmolecule. Physical Review A, 2004, 69, .	2.5	47
36	Analysis of Rotation–Vibration Relative Equilibria on the Example of a Tetrahedral Four Atom Molecule. SIAM Journal on Applied Dynamical Systems, 2004, 3, 261-351.	1.6	17

#	Article	IF	Citations
37	Linear Hamiltonian Hopf bifurcation for pointâ€“groupâ€“invariant perturbations of the 1:1:1 resonance. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2003, 459, 2997-3019.	2.1	13
38	A method for accurate computation of the rotation and the twist numbers of invariant circles. Physica D: Nonlinear Phenomena, 2001, 158, 151-163.	2.8	6
39	Orbits in the H2O molecule. Chaos, 2001, 11, 327-334.	2.5	3