

Ernest Fontich

List of Publications by Year in descending order

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39
papers

935
citations

933447

10
h-index

454955

30
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40
all docs

40
docs citations

40
times ranked

306
citing authors

#	ARTICLE	IF	CITATIONS
1	The parameterization method for invariant manifolds I: Manifolds associated to non-resonant subspaces. Indiana University Mathematics Journal, 2003, 52, 283-328.	0.9	186
2	The parameterization method for invariant manifolds III: overview and applications. Journal of Differential Equations, 2005, 218, 444-515.	2.2	181
3	Effective stability for a Hamiltonian system near an elliptic equilibrium point, with an application to the restricted three body problem. Journal of Differential Equations, 1989, 77, 167-198.	2.2	163
4	The parameterization method for invariant manifolds II: regularity with respect to parameters. Indiana University Mathematics Journal, 2003, 52, 329-360.	0.9	125
5	Construction of invariant whiskered tori by a parameterization method. Part I: Maps and flows in finite dimensions. Journal of Differential Equations, 2009, 246, 3136-3213.	2.2	47
6	General scaling law in the saddle-node bifurcation: a complex phase space study. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 015102.	2.1	27
7	Arnold diffusion in perturbations of analytic integrable Hamiltonian systems. Discrete and Continuous Dynamical Systems, 2001, 7, 61-84.	0.9	27
8	Exponentially small splitting of separatrices beyond Melnikov analysis: Rigorous results. Journal of Differential Equations, 2012, 253, 3304-3439.	2.2	25
9	The parameterization method for one-dimensional invariant manifolds of higher dimensional parabolic fixed points. Discrete and Continuous Dynamical Systems, 2007, 17, 835-865.	0.9	20
10	Bifurcations analysis of oscillating hypercycles. Journal of Theoretical Biology, 2015, 387, 23-30.	1.7	13
11	ON THE METAPOPOPULATION DYNAMICS OF AUTOCATALYSIS: EXTINCTION TRANSIENTS RELATED TO GHOSTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1261-1268.	1.7	11
12	Construction of invariant whiskered tori by a parameterization method. Part II: Quasi-periodic and almost periodic breathers in coupled map lattices. Journal of Differential Equations, 2015, 259, 2180-2279.	2.2	11
13	Hamiltonian systems with orbits covering densely submanifolds of small codimension. Nonlinear Analysis: Theory, Methods & Applications, 2003, 52, 315-327.	1.1	8
14	Dynamical systems on lattices with decaying interaction I: A functional analysis framework. Journal of Differential Equations, 2011, 250, 2838-2886.	2.2	8
15	Homoclinic orbits to parabolic points. Nonlinear Differential Equations and Applications, 1997, 4, 201-216.	0.8	7
16	Invariant manifolds of dynamical systems close to a rotation: Transverse to the rotation axis. Journal of Differential Equations, 2005, 214, 128-155.	2.2	7
17	Habitat loss causes long extinction transients in small trophic chains. Theoretical Ecology, 2021, 14, 641-661.	1.0	7
18	Exponentially small splitting of invariant manifolds of parabolic points. Memoirs of the American Mathematical Society, 2004, 167, 0-0.	0.9	7

#	ARTICLE	IF	CITATIONS
19	Exponentially small splitting of separatrices in a weakly hyperbolic case. <i>Journal of Differential Equations</i> , 2005, 210, 106-134.	2.2	6
20	Dynamical systems on lattices with decaying interaction II: Hyperbolic sets and their invariant manifolds. <i>Journal of Differential Equations</i> , 2011, 250, 2887-2926.	2.2	6
21	Invariant manifolds of parabolic fixed points (I). Existence and dependence on parameters. <i>Journal of Differential Equations</i> , 2020, 268, 5516-5573.	2.2	6
22	Gevrey estimates for one dimensional parabolic invariant manifolds of non-hyperbolic fixed points. <i>Discrete and Continuous Dynamical Systems</i> , 2017, 37, 4159-4190.	0.9	6
23	Invariant manifolds of maps close to a product of rotations: close to the rotation axis. <i>Journal of Differential Equations</i> , 2003, 191, 490-517.	2.2	5
24	Dynamical role of the degree of intraspecific cooperation: A simple model for prebiotic replicators and ecosystems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 1867-1878.	2.6	4
25	On the "Hidden" Harmonics Associated to Best Approximants Due to Quasi-periodicity in Splitting Phenomena. <i>Regular and Chaotic Dynamics</i> , 2018, 23, 638-653.	0.8	4
26	Invariant manifolds of parabolic fixed points (II). Approximations by sums of homogeneous functions. <i>Journal of Differential Equations</i> , 2020, 268, 5574-5627.	2.2	4
27	Arnold diffusion in perturbations of analytic exact symplectic maps. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2000, 42, 1397-1412.	1.1	3
28	Full analysis of small hypercycles with short-circuits in prebiotic evolution. <i>Physica D: Nonlinear Phenomena</i> , 2017, 347, 90-108.	2.8	3
29	Coexistence stability in a four-member hypercycle with error tail through center manifold analysis. <i>Nonlinear Dynamics</i> , 2017, 90, 1873-1883.	5.2	3
30	Invariant pre-foliations for non-resonant non-uniformly hyperbolic systems. <i>Transactions of the American Mathematical Society</i> , 2006, 358, 1317-1345.	0.9	2
31	Dynamical effects of loss of cooperation in discrete-time hypercycles. <i>Physica D: Nonlinear Phenomena</i> , 2020, 406, 132425.	2.8	1
32	Critical slowing down close to a global bifurcation of a curve of quasi-neutral equilibria. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 104, 106032.	3.3	1
33	Invariant Objects on Lattice Systems with Decaying Interactions. <i>Trends in Mathematics</i> , 2019, , 137-143.	0.1	1
34	Bifurcation Gaps in Asymmetric and High-Dimensional Hypercycles. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018, 28, 1830001.	1.7	0
35	Whiskered Parabolic Tori in the Planar $(n+1)$ -Body Problem. <i>Communications in Mathematical Physics</i> , 2020, 374, 63-110.	2.2	0
36	Differentiable invariant manifolds of nilpotent parabolic points. <i>Discrete and Continuous Dynamical Systems</i> , 2021, 41, 4667.	0.9	0

#	ARTICLE	IF	CITATIONS
37	Normal Forms and Sternberg Conjugation Theorems for Infinite Dimensional Coupled Map Lattices. Journal of Dynamics and Differential Equations, 2021, 33, 275-301.	1.9	0
38	Modelling Functional Shifts in Two-Species Hypercycles. Mathematics, 2021, 9, 1809.	2.2	0
39	On dynamical systems close to a product of S^1 rotations. Discrete and Continuous Dynamical Systems, 2009, 24, 349-366.	0.9	0