

Hiroshi Kokubu

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

511
citations

840776

11
h-index

677142

22
g-index

26
all docs

26
docs citations

26
times ranked

310
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent development in rigorous computational methods in dynamical systems. Japan Journal of Industrial and Applied Mathematics, 2009, 26, 393-417.	0.9	106
2	Bifurcations to N -homoclinic orbits and N -periodic orbits in vector fields. Journal of Dynamics and Differential Equations, 1993, 5, 305-357.	1.9	72
3	The cusp horseshoe and its bifurcations in the unfolding of an inclination-flip homoclinic orbit. Ergodic Theory and Dynamical Systems, 1994, 14, 667-693.	0.6	59
4	Existence of a Singularly Degenerate Heteroclinic Cycle in the Lorenz System and Its Dynamical Consequences: Part I. Journal of Dynamics and Differential Equations, 2004, 16, 513-557.	1.9	57
5	MULTIPLE HOMOCLINIC BIFURCATIONS FROM ORBIT-FLIP I: SUCCESSIVE HOMOCLINIC DOUBLINGS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 833-850.	1.7	23
6	Global dynamics for steep nonlinearities in two dimensions. Physica D: Nonlinear Phenomena, 2017, 339, 18-38.	2.8	23
7	The onset of transient turbulence in minimal plane Couette flow. Journal of Fluid Mechanics, 2019, 862, .	3.4	19
8	A degenerate singularity generating geometric Lorenz attractors. Ergodic Theory and Dynamical Systems, 1995, 15, 833-856.	0.6	18
9	Formation mechanism of a basin of attraction for passive dynamic walking induced by intrinsic hyperbolicity. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160028.	2.1	18
10	Common formation mechanism of basin of attraction for bipedal walking models by saddle hyperbolicity and hybrid dynamics. Japan Journal of Industrial and Applied Mathematics, 2015, 32, 315-332.	0.9	16
11	The existence of infinitely many homoclinic doubling bifurcations from some codimension 3 homoclinic orbits. Journal of Dynamics and Differential Equations, 1997, 9, 445-462.	1.9	12
12	The Conley Index for Fast-Slow Systems I. One-Dimensional Slow Variable. Journal of Dynamics and Differential Equations, 1999, 11, 427-470.	1.9	12
13	Topological Horseshoes of Traveling Waves for a Fast-Slow Predator-Prey System. Journal of Dynamics and Differential Equations, 2007, 19, 623-654.	1.9	12
14	A study of rigorous ODE integrators for multi-scale set-oriented computations. Applied Numerical Mathematics, 2016, 107, 34-47.	2.1	12
15	Constrained Lorenz-like attractors. Japan Journal of Industrial and Applied Mathematics, 1985, 2, 495-500.	0.4	11
16	Title is missing!. Journal of Dynamics and Differential Equations, 2002, 14, 63-84.	1.9	11
17	Chaotic dynamics in \mathbb{Z}_2 -equivariant unfoldings of codimension three singularities of vector fields in \mathbb{R}^3 . Ergodic Theory and Dynamical Systems, 2000, 20, 85-107.	0.6	10
18	Normal forms for parametrized vector fields and its application to bifurcations of some reaction diffusion equations. Japan Journal of Industrial and Applied Mathematics, 1984, 1, 273-297.	0.4	9

#	ARTICLE	IF	CITATIONS
19	A construction of three-dimensional vector fields which have a codimension two heteroclinic loop at Glendinning-Sparrow T-point. Zeitschrift Fur Angewandte Mathematik Und Physik, 1993, 44, 510-536.	1.4	6
20	Explicit transversality conditions and local bifurcation diagrams for Bogdanov-Takens bifurcation on center manifolds. Physica D: Nonlinear Phenomena, 2019, 391, 52-65.	2.8	2
21	A topological computation approach to the interior crisis bifurcation. Nonlinear Theory and Its Applications IEICE, 2013, 4, 97-103.	0.6	1
22	An Attempt to Understand Global Structure of Dynamics in Nonlinear Phenomena. The Brain & Neural Networks, 2015, 22, 68-77.	0.1	1
23	Learning Dynamics by Reservoir Computing (In Memory of Prof. Pavol Brunovský). Journal of Dynamics and Differential Equations, 2024, 36, 515-540.	1.9	1
24	Normal forms for constrained equations and their applications to strange attractors. , 1985, , .		0
25	A Combinatorial Framework for Analysis of Global Dynamics and Bifurcations. Procedia IUTAM, 2012, 5, 195-198.	1.2	0
26	Regarding invited papers on dynamical systems. Japan Journal of Industrial and Applied Mathematics, 2015, 32, 295-295.	0.9	0